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Introduction to VenueMagic Help

Welcome to the VenueMagic help library. This library is intended to be a quick reference to the features and functions of the VenueMagic show control software. This manual covers the Express, Classic, DMV+AV and SC+ editions of VenueMagic, and notations will be included to identify which features and functions are available for which editions. If no notation is included for a given topic, then assume that the feature is available for all versions. For a more detailed and comprehensive explanations of how to use VenueMagic, please consult the User Manual and tutorials included with your VenueMagic installation.

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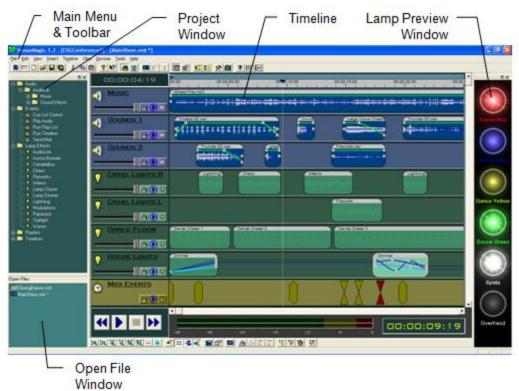
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VenueMagic Main Screen



The above figures show the elements of the VenueMagic main screen. These elements fall into two categories: *toolbars* and *documents*. Toolbars can be added or removed from the screen as desired by selecting them in the *View* menu. By grabbing the gripper bar, they can be moved and docked to any part of the main screen. Arrange the toolbars how you like them and VenueMagic will remember their position.

Toolbar gripper

The toolbars are:

Project Window:	Contains all the project folders. Also includes the
	Open File Window.
Lamp Preview Window:	Real-time display of lamps and other channel
	information.
Cue Control Window:	Contains the cue list and the programmable cue
	buttons.
Virtual Control Surface:	Programmable sliders for controlling a variety of
	VenueMagic functions.

VenueMagic also supports two documents types:

Timelines:	Layout the performance of combined music, sound
	effects, lamp control, events, etc
Playlists:	Organizes audio files and timelines for sequential
	playback.

VenueMagic Main Menu

Ele Edit Yew Insert Project Events Timeline Clips Devices Iools Help

The main menu changes depending on which type of document (i.e.: timeline or playlist) is currently shown. The following tables briefly describe the function of each menu option in the main menu. If there is an associated button in the toolbar, that will also be noted.

File Menu

Menu item	toolbar	Description
New ▶Timeline		Create a new <u>timeline</u> .
New ►Playlist		Create a new <u>playlist</u> .
New ▶Project		Create a new project.
Open	2	Open a timeline, playlist or project.
Close	_	Close currently displayed timeline or playlist.
Save		Save currently displayed timeline or playlist.
Save As	_	Save currently displayed timeline or playlist under a different name.
Save Project	—	Save currently open project.
Save Project As	_	Save currently open project under a different name.
Save All		Save currently open project and all open timelines and playlists.
Reports	—	Select from a list of available reports to create.
Recent Projects		Select from a list recently opened projects.
Exit	_	Exit VenueMagic.

Edit Menu

Menu item	toolbar	Description
Undo	_	Undo the last change made to a <u>timeline</u> or playlist.
Redo		Redo the last change undone change.
Cut	¥	Delete an item and place it into clipboard.
Сору	e de la companya de l	Copy an item into the clipboard.
Paste	a	Paste an item from the clipboard.
Delete		Delete selected item.

View Menu

Menu item	toolbar	Description
Status Bar		Show/Hide status bar at the bottom of the
		screen.
Project Window		Show/Hide project window.
Cue Control Window		Show/Hide cue control window.
Beat Tapper	TRP	Show/Hide <u>beat tapper</u> control. Available on when cue control window is shown.

Virtual Control Surface	141	Show/Hide <u>virtual control surface</u> (VCS) window.
Lamp Preview Window	19 1	Show/Hide lamp preview window.
Video Playback Window	ă	Show/Hide video playback window.
Redock all	—	Select this option to restore all floating window to their docked state.
Lamp Preview	6	Set lamp preview properties.
Properties		
Properties		Set properties for currently selected item.
		Refers only to clips in timelines and playlists.

Insert Menu

('T'=Timeline, 'P'=Play list)

Menu item	Т	Р	toolbar	Description
Audio Track	✓		*	Add an <u>audio track</u> into a <u>timeline</u> .
Video Track	✓		*	Add a <u>video track</u> into a <u>timeline</u> .
Lamp Track	~		* * *	Add a lamp track into a timeline.
Event Track			*	Add an event track into a timeline.
Lamp Tracks from Profile	\checkmark	_		Import profile and <u>auto-populate</u> timeline.
Silence		~	**	Add a <u>silence block</u> into a <u>playlist</u> .
Wait		~	**	Add a <u>wait block</u> into a playlist.

* Located in the toolbar at the bottom of the timeline window.

** Located in the toolbar at the bottom of the playlist window.

Project Menu

Menu item	toolbar	Description
Project Options	B	Set project options.

Event Menu

Menu item	toolbar	Description						
Event Scheduler		Open <u>event scheduler</u> .						
Event Table	*	Open <u>event table</u> .						
Enable Event Table	<u>()</u>	Enable/disable event table operation						
Reset Event Groups	3	Resets triggers for all event groups						

Timeline Menu

(Shown only when a timeline is shown)

Menu item	toolbar	Description
Play	—	Play/stop currently shown timeline.
Enable External Sync	—	Enable/disable <u>external synching</u> of the timeline playback.
Insert Marker		Inserts a <u>timeline marker</u> at the current <u>time</u> <u>cursor</u> position.
Timeline Options	*	Set timeline options.

* Located in the toolbar at the bottom of the timeline window.

Playlist Menu

(Shown only when a playlist is shown)

Menu item	toolbar	Description
Play	—	Play/stop currently shown playlist.
Playlist Options	**	Set <u>playlist options</u> .

** Located in the toolbar at the bottom of the playlist window.

Clips Menu

(Shown only when a timeline is shown. For toolbar buttons, see Timeline Toolbar.)

Menu item	Description
Lock Clip(s)	Lock all currently selected clips in the timeline.
Unlock Clip(s)	Unlock currently selected clips in the timeline.
Link Clip(s)	Link all currently selected clips in the timeline.
Unlink Clip(s)	Link currently selected clips in the timeline.
Split Clips at Cursor	Splits selected clips at the <u>time cursor</u>
	position.
Edit Envelopes	Open the <u>envelope editor</u> for the selected clip.
Record Channels	Enables/Disables channel recording.
Clip Properties	Set properties for selected clip.

Devices Menu

Menu item	toolbar	Description								
Fixtures	•	Show Add Fixtures window.								
Groups		Show Group Builder window.								
Virtual Fixtures		Open Setup Virtual Fixtures window.								
Variable Table		Open Variable Table window.								
Setup Channel Routing	M	Setup <u>channel routing</u> .								
Enable Channel Routing	1. I	Enable/disable channel routing.								
Turn Off Lamps	Ж.	Turn off all lamps. Only affects dimmable lamps.								
Reset DMX Control	—	Resets DMX interfaces in case of a malfunction.								
Setup Devices	*	Select audio, DMX and MIDI devices. (see <u>Device Setup</u>).								
Enable External Inputs	*	Enable input from external input devices (MIDI, VCS, etc)								
Enable Device	P	Enable communications with DMX devices,								
Communication		etc								

Tools Menu

Menu item	toolbar	Description
Appearance Settings	1	Show Appearance Settings window.

Calibrate Lamps	E Q [€]	Show <u>Calibrate Lamps</u> window.
Chaser Library		Show Chaser Library window.
User Fixture Library	_	Show User Fixture Library window.
Monitor MIDI Input	_	Show the Monitor MIDI Input window.
Monitor DMX Input		Show the DMX Input Monitor window.
Monitor DMX Output	_	Show the DMX Output Monitor window.
Record DMX		Show the Record DMX window.
Monitor Serial Input		Show the Monitor Serial Input window.
Watch Inputs	—	Show the Watch Inputs window.
Events Status		Show the Events Status window.

Help Menu

Menu item	toolbar	Description							
Tip of the Day	—	Show the <i>Tip of the Day</i> window.							
Contents	—	Show help table of contents tab.							
Search	—	Show help search tab.							
Index	—	Show help index tab.							
VenueMagic on the Web	_	Opens a browser to <u>www.venuemagic.com</u> .							
Check for Updates	_	Goes online to check for updates to your VenueMagic software. If updates are available you are given the option to download and install them.							
Register VenueMagic	_	If you have not yet registered your copy of VenueMagic, this option will start the VenueMagic Registration wizard.							
About VenueMagic	Ŷ	Show About VenueMagic window.							

Fixtures

VenueMagic includes a library of a numerous DMX fixtures from a variety of manufacturers. These fixtures are added and organized in the Add Fixture window. Each fixture is composed of one or more channels which correspond to a DMX channel. Some channels may be further broken to sub channels. In this case, the sub channels correspond to DMX channels.

Add Fixtures

Select fixtures from the Fixture Library and drag them into Fixture Placement window. The numbered cells correspond to DMX addresses. To change the address range of a fixture, select the fixture in the window and drag it to the desired address.

elect Fixture			la comercia						DM	X Cha	nnel M	apping	-						
			Fixture	info:															
Filter by manufacturer	Chauvet		Name=(COLORbank_LED_Generic) : Fature=(COLORbank LED Generic) : Type=(RGB Lamp)																
Filter by fature type	Banal Head									1 2 3 4 5 6 7 8						910			
Fixture	Туре	-		2	3	4	5	6	7	8	9	10	11	12	13	14	15	15	-
COLORado 1 VW	Lamp		17	18		20	21	22	23	24	25	26	27	28	29	30	31	32	
COLORado Panel	RGB Lamp	_	and the second	-	-	-		Contraction of the									-		
COLORado3	RGB Lamp	_	33	34	35		31			40	1941	42		44		140	47	40	
COLORado6	RGB Lamp	_	10	60	15.4	5.2	53	54	55	66	5.7	62	50	60	64	60	6.2	100	
COLORbank 4	RGB Lamp	_				and the second	194		100		-			No.		(Article)	00	1.00	
COLORbank LED Gene.			65	66	67	58	69	70	71	72	73	74	75	76	77	78	79	80	
COLORbank LED RGB	RGB Lamp		Contraction of the		-			-	The second				-		-		-	-	
COLORcontroller 2.0	Lamp		01	0.2	55	94	db.	do.	67	68	89	50	21	36	33		30	90	
COLORdash Batten	RGB Lamp		92	98	90	100	101	102	102	10.5	105	105	107	1108	109	110	111	1112	
COLORdash PAR	RGB Lamp	100		4.0		144		-	Training the				-	a series	1.00		_	_	
COLORdash Quad	RGB Lamp	_	113	114	115	116	117	118	119	120	121	122	123	124	126	126	127	128	
COLORpalette15	RGB Lamp			Concession in which the		Carson of	Campo -	-	Come.	1000	Contract of	470	-	1000	Contract of			Contract of	
COLORpalette27	RGB Lamp		129	13.1	131	132	133	1.54	135	136	13/	138	139	140	141	142	143	144	
COLORpalette6	RGB Lamp		115	146	147	1141	149	160	151	152	449	15.4	155	155	157	150	120	160	
COLORpalette9	RGB Lamp		Basic		-				and the second				and and	and the second second	1.00		and a		
COLORsplash 2008	RGB Lamp		161		163	164	165	166	167	168	169	170	171	172	173				
COLORstrip Generic	RGB Lamp		and the second second	The second	Tanks.	TANK	Common State	Colorest.	The state of	CHOICE !!	Sec.	Contract of	1	1000	(approx	1 A POPULA	100	Calore	
COLORstrip RGB	RGB Lano		177		1.(9)	HEL	101	10Z	103	a pa	100	100.	107	100	195	190	191	132	
DerbyX	Lamp		193		195	195	197	198	199	200	201		COLO	Rbank	LED_	Generi	207	208	
DMX-4	Dimmer Flack		Real Property lies		-	and the second second	-						and the second		and the second	Print of	BARA I		
Double Derby X	Lamp		209			212				216	217	218	219	220	221	222	223	224	
Elan	Lamp		10.00	ane				230		40.0	233	20.4	275	1220	007	220	239	-	
nsignia 2 DMX-610A	Scan Head		100	120	122	220	and a	lenin.		and C.	- 622	2.14	235	230	231	230	235	240	
Intimidator 1 DMX-600	Scan Head	-	241	242	243	244	245	246		2411				252					-
Main Ibrary C User		+1	Ret	nove	1	Edit	1	Show	univer	se h	2	-	Fix	itures:	2	Cha	nnels:	203	
	1.	1		-			_			1									
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Filter by manufacturer	Check this to filter the fixture library by manufacturer* in the adjacent selector box. Uncheck to show all fixtures for all manufacturers.
Filter by fixture type	Check this to filter the fixture library by fixture type in the adjacent selector box. Uncheck to show all fixtures types.
Main/User Library	Use these selectors to choose which library is currently displayed in the <i>Fixture Library</i> list. Select <i>Main library</i> to display the fixture library that came with the VenueMagic installation. Select User library to show fixtures that have been entered into the user fixture library. (See <u>User Fixture Library</u>). Fixtures that were dragged over from the user library are shown displayed as a lighter shade of blue in the <i>Fixture Placement Window</i> .
Fixture info:	Displays information about the fixture currently under the mouse cursor. <i>Name</i> =user selected name. <i>Fixture</i> =manufacturer name for fixture. <i>Type</i> =type of fixture.

Address switch settings:	Graphical display of the address switch settings for the fixture currently under the mouse cursor.
Remove (button)	Remove selected fixtures from window.
Edit (button)	Edit fixture settings (see Edit Fixture Settings).
Show universe:	Select which DMX universe is currently displayed in the Fixture Placement Window. The number of universes available depends on which version of VenueMagic you have installed.
Fixtures:	Shows how many fixtures are in the window.
Channels:	Shows how many fixture channels are in the window.

Cut, Copy and Pasting Fixtures

Common clipboard functions are available from a pop-up menu. To cut or copy, select the desired fixtures, right-click on one of the selected fixtures and select *Cut* or *Copy*. To paste copied fixtures, right-click on a channel and select *Paste*.

Remapping Fixtures

(Available in DMX+AV and above)

A powerful and unique feature available to VenueMagic fixtures is the ability to substitute one fixture for another. This is particularly useful in situations such as when a moving head breaksdown at the last minute just before a show and the replacement head is a completely different brand with a completely different channel mapping.

Procedure:

- 1. In the <u>Add Fixtures</u> window select a replacement fixture from the Fixture Library and drag onto any empty channel range in the *Fixture Placement Window*.
- 2. Right-click on the fixture you wish to replace and select Remap...
- 3. Follow the instructions on the Select Item Replacements wizard.

Upon completion of the remapping procedure, VenueMagic will have mapped all references to the original fixture—including lamp tracks, lamp effects, channel routing, channel groups, etc... to the replacement fixture. You are now free to delete the original replaced fixture and move the new replacement fixture to take its place in the DMX map. Is desired.

Select Item Replacement Wizard

lect Item Replacements		>
 This list shows project fixtures that have been selected for remapping. Select a fixture in this list and then check the fixture or fixtures to replace it with in the list on the right. 	 This list shows project fixtures that are available to replace the fixture currently selected in the list on the left. 	
DJ_Spot_250	04Channel45HP_LED_Par4CH45HP_LED_Par6CH45HP_LED_Par7CH // A2025 Accu_Fog_1000 Bit Fixture	
3. Click "Next" to fine tune your replacements or	n the channel level,	

This Select Item Replacement Wizard steps you through the process of replacing a fixture in the <u>Add Fixtures</u> window.

List #1 on the left shows the fixture selected for replacement. *List #2* on the right shows all of the fixtures currently included in the <u>Add Fixtures</u> window.

In List #2, check the fixture you would like to replace the fixture in List #1 and click Next.

. The list to the right shows all	Fixture:		To be replaced by:	
f the fixture replacements you elected on the previous page. Select a replacement to show list of fixture channel eplacements in the list below.	DJ_Spot_25	0	A2025	
. The list below shows how ch he best it can to recommend ch	hannel replacem	nents. You can m	ake changes to this by draggir	
he channels into the desired or Channel:	der. Click "Finis		one. d by (drag rows to reorder):	
	der. Click "Hinis	To be replaced A2025.Position	d by (drag rows to reorder):	
Channel: DJ_Spot_250.Position DJ_Spot_250.Color	der. Click "Hinis	To be replaced A2025.Position A2025.Color	d by (drag rows to reorder):	
Channel: DJ_Spot_250.Position DJ_Spot_250.Color DJ_Spot_250.Gobo	der. Click "Finis	To be replaced A2025.Position A2025.Color A2025.Gobo	d by (drag rows to reorder):	
Channel: DJ_Spot_250.Position DJ_Spot_250.Color DJ_Spot_250.Gobo DJ_Spot_250.Selection	der. Click "Finis	To be replaced A2025.Position A2025.Color A2025.Gobo A2025.Prism_	d by (drag rows to reorder):	
Channel: DJ_Spot_250.Position DJ_Spot_250.Color DJ_Spot_250.Gobo DJ_Spot_250.Selection DJ_Spot_250.PT_Speed	der. Click "Hinis	To be replaced A2025.Position A2025.Color A2025.Gobo A2025.Prism_f A2025.Speed	d by (drag rows to reorder): n Rotation	
Channel: DJ_Spot_250.Position DJ_Spot_250.Color DJ_Spot_250.Gobo DJ_Spot_250.Selection	der. Click "Finis	To be replaced A2025.Position A2025.Color A2025.Gobo A2025.Prism_I A2025.Speed A2025.Gobo	d by (drag rows to reorder): n Rotation	
Channel: DJ_Spot_250.Position DJ_Spot_250.Color DJ_Spot_250.Gobo DJ_Spot_250.Selection DJ_Spot_250.PT_Speed	der. Click "Finis	To be replace(A2025.Position A2025.Color A2025.Gobo A2025.Speed A2025.Gobo_ A2025.Speed A2025.Level	d by (drag rows to reorder): Rotation Rotation	
Channel: DJ_Spot_250.Position DJ_Spot_250.Color DJ_Spot_250.Gobo DJ_Spot_250.Selection DJ_Spot_250.PT_Speed	der. Click "Finis	To be replace A2025.Position A2025.Color A2025.Gobo A2025.Speed A2025.Speed A2025.Speed A2025.Level A2025.Level	d by (drag rows to reorder): Rotation Rotation	
Channel: DJ_Spot_250.Position DJ_Spot_250.Color DJ_Spot_250.Gobo DJ_Spot_250.Selection DJ_Spot_250.PT_Speed	der. Click "Finis	To be replace(A2025.Position A2025.Color A2025.Gobo A2025.Speed A2025.Gobo_ A2025.Speed A2025.Level	d by (drag rows to reorder): Rotation Rotation	
Channel: DJ_Spot_250.Position DJ_Spot_250.Color DJ_Spot_250.Gobo DJ_Spot_250.Selection DJ_Spot_250.PT_Speed	der. Click "Finis	To be replaced A2025.Position A2025.Color A2025.Color A2025.Speed A2025.Speed A2025.Speed A2025.Speed A2025.Level A2025.Shutter A2025.Focus	d by (drag rows to reorder): Rotation Rotation	
Channel: DJ_Spot_250.Position DJ_Spot_250.Color DJ_Spot_250.Gobo DJ_Spot_250.Selection DJ_Spot_250.PT_Speed	der. Click "Finis	To be replaced A2025.Position A2025.Color A2025.Color A2025.Speed A2025.Speed A2025.Speed A2025.Speed A2025.Level A2025.Shutter A2025.Focus	d by (drag rows to reorder): Rotation Rotation	

In most instances, VenueMagic will be able to remap the individual fixture channels automatically. If you are replacing a fixture with an identical fixture this task is easy. However, if the two fixtures are quite different, VenueMagic may need some additional help.

In List #1, you will see a summary of all of the fixture replacements that were assigned in the previous screen. Select one of them, and List #2 will be populated with VenueMagic's best guest as to how the individual channels should be replaced. In most cases, VenueMagic will do a pretty good job. However, if changes need to be made, you can click and drag channels on the right side of this list to line them up with different channels on the left. This is, of course, subject to certain rules. For more details on how to modify channel replacements, see <u>Selecting Track</u> <u>Channel Replacements</u>, which functions similarly.

After you have verified (and perhaps corrected) channel replacements for channel, click Finish.

Mapping Fixtures to Capture Polar 3D Visualizer

(Available in Classic and above)

VenueMagic supports interfacing to the *Capture Polar* 3D Visualizer versions 2.8.11 and above. Before doing this, you must setup this feature in the <u>Project Visualizer Settings</u> window. If this feature is enabled in the Edition of VenueMagic you are using, an additional Visualizer button appears at the bottom of the <u>Add Fixtures</u> window:

Remove	Edit	Visualizer	Universe:	1	Ţ	Fixtures:	10	Channels:	240

Click on this button to open the Map Fixture to Visualizer window.

Map Fixture to Visualizer Window

This window lets you set up fixture mapping between VenueMagic and the current default instance of *Capture Polar* (see <u>Project Visualizer Settings</u>).

Fixture	Name	Туре	Manufacturer	Univ	Chn	Chns	Map	-	
ColorSpo	ot_1200_AT_M1	ColorSpot 1200 AT M1	Robe	1	1	24	Yes		
ColorSpo	ot_1200_AT_M1_1	ColorSpot 1200 AT M1	Robe	1	25	24	Yes		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
ColorSpo	ot_1200_AT_M1_2	ColorSpot 1200 AT M1	Robe	1	49	24	Yes	-	This list shows all
ColorSpo	ot_1200_AT_M1_3	ColorSpot 1200 AT M1	Robe	1	73	24	Yes		
ColorSpo	ot_1200_AT_M1_4	ColorSpot 1200 AT M1	Robe	1	97	24	Yes	-	fixtures in the
ColorSpa	ot_1200_AT_M1_5	ColorSpot 1200 AT M1	Robe	1	121	24	Yes		Vanue Magie proje
ColorSpo	ot_1200_AT_M1_6	ColorSpot 1200 AT M1	Robe	1	145	24	Yes	+	VenueMagic proje
~-l^-		C-1	n.L.	•			A.1	-	
		Auto-map	Unmap	Unma	IA qu	Add	to Visuali	zer	
elect Vis	ualizer fixture to map	to			Auto-u	pdate :	selection		
ID	Name		Manufacturer	Univ	Chr		n Cnt	-	
00001	ColorSpot 2500E A		Robe	1	257	7 24			
00002	ColorSpot 2500E AT	T	Robe	1	28	2		=	
00003	ColorSpot 2500E AT		Robe	1	301	24	l		
00004	ColorSpot 2500E AT		Robe	4	325	2			
00005	ColorSpot 2500E AT	r	Robe	1	35	24		-	This list shows all
00006	ColorSpot 2500E A	T	Robe	4	37	7. 24			fixtures in the
00007	ColorSpot 2500E AT		Robe	1	40				fixtures in the
00008	ColorSpot 2500E AT		Robe	1	425	5 24			Capture Polar
00025	Arena Theatre Fres		Selecon	1	1	1			Captule Folai
00026	Arena Theatre Fres		Selecon	1	2	1			project
00027	Arena Theatre Fres		Selecon	1	3	1	_		project
00029	Arena Theatre Fres		Selecon	1	5	1			
					e-map	1 0	efresh Lis	. 1	
						I K	erresh Lis	C	
	dress patch matching								
DMX ad	ldress patch matching			_				_	

This window has two lists. The list on the top, lists all of the fixtures included in the VenueMagic project. Fixture data includes:

Fixture Name	The name of the fixture as specified in the VenueMagic project.
Туре	The fixture type or model.
Manufacturer	The fixture manufacturer.
Univ	Which DMX universe the fixture is associated with.
Chn	The current DMX base address.
Chns	How many DMX channels are in the fixture.
Mapping	Specifies whether or not the fixture is currently mapped to a fixture in the Capture project (Yes/No).

The buttons beneath the list (Auto-Map, Unmap, Unmap All, Add to Visualizer) will be discussed later.

The list on the bottom shows all of the fixtures in the currently loaded Capture project. Fixture data includes:

ID A unique numeric identifier for the fixture. This value corresponds to the Capture *Channel* value of the fixture.

Name	The fixture type or model.
Manufacturer	The fixture manufacturer.
Univ	Which DMX universe the fixture is associated with.
Chn	The current DMX base address.
Chns	How many DMX channels are in the fixture.

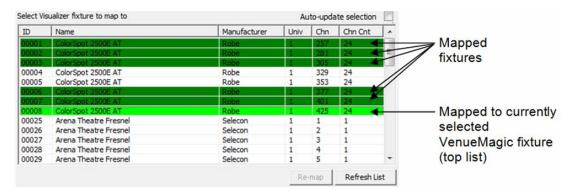
Mapping Fixtures

You can map the fixtures from one list to the other by following these steps:

- 1. Select a VenueMagic fixture in the top list.
- 2. Select a Capture fixture to map to in the bottom list.

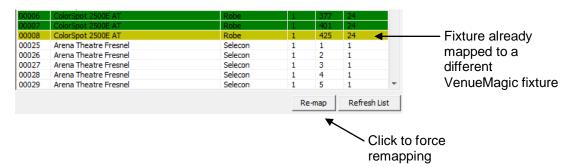
You're done. Repeat those steps to map other fixtures.

The Capture fixture (bottom) list is color-coded to help keep track of how things are mapped.



A dark-green highlight shows Capture fixtures that are currently mapped to other VenueMagic fixtures. Light-green shows which Capture fixture is mapped to the currently selected VenueMagic fixture.

Fixture mapping is one-two-one. If you select a Capture fixture that is already mapped to a different VenueMagic fixture, the highlight will turn yellow and the mapping will not take place. Click Re-map to force a re-mapping of the selected Capture fixture to the currently selected VenueMagic fixture.



Click *Refresh List* to request an update of available fixtures from Capture.

Additional Mapping Function

The row of buttons beneath the VenueMagic fixture list provides additional mapping functionality.

Auto-map	Unmap	Unmap All	Add to Visualizer			
Auto-map	Click this button to automatically map fixtures based on DMX addresses. VenueMagic fixtures are mapped to Capture fixtures with the same DMX address. VenueMagic fixtures with no matching Capture fixture are left unmapped.					
Unmap	Click to un-map selected VenueMagic fixtures.					
Unmap All	Click to un-map all VenueMagic fixtures.					
Add to Visualizer						

Auto-Update Selection

Check this box to enable the *Auto-update selection* feature. With this feature enabled, any fixture selected *Select visualizer fixture to map to* list (a.k.a. the "bottom" list), will automatically be selected in the view windows in Capture Polar. Likewise, any fixture selected in a Capture Polar view window willow also be selected in the *Select visualizer fixture to map to* list. This feature can greatly simplify the fixture mapping process.

DMX Address Patch Matching

The Setup Dmx address patch matching group sets up patch matching action that occurs when OK is clicked. Select **Match VenueMagic to Visualizer** and all of the VenueMagic fixture DMX channels will be changed to matched those of the Capture fixtures they are mapped to. Again, this matching occurs when the window is closed by clicking the OK button. It will <u>not</u> continue to match automatically. If you do not want DMX address matching, select **Don't change patching**.

Add Fixture to Visualizer

	Add Fixture To Visualizer	×
What VenueMagic calls the fixture	Fixture name: ColorSpot 1200 AT M1 Manufacturer: Robe	OK Cancel
What Capture calls the fixture	Visualizer equivalent: Fixture name: ColorSpot 1200 AT Manufacturer: Robe	

This window lets you assist Capture in adding a fixture to Capture's *Console Patch* window based on a VenueMagic fixture.

In the *Visualizer equivalent* section, enter the Capture equivalent of the VenueMagic fixture name and manufacturer displayed in the top section of the window. This must be entered exactly as it appears in the Capture fixture library. VenueMagic will remember the substitution so that the next time you wish add this fixture to the Console Patch window, it will be automatically loaded with the previously entered fixture name and manufacturer equivalent for that fixture.

Click OK and the fixture is added to Capture's *Console Patch* window, from where it can be dragged into the view.

Strategies for Mapping VenueMagic Fixtures to Capture Polar

VenueMagic provides a number of tools and features designed to help simplify the process of using Capture Polar to visually display VenueMagic playback. The most time consuming part of this is, of course, mapping fixtures in the VenueMagic project to the fixtures in the Capture Polar project, and vice versa. Below are some examples of how the <u>Map Fixtures to Visualizer</u> window can be used to accomplish this in different situations.

Example #1: Adding VenueMagic fixtures to map to existing Capture fixtures.

If you already have a completed Capture Polar project that you want to control with VenueMagic, follow these steps:

- 1. Print out a list of all the fixtures in the Capture project (see Capture Polar manual for more information on how to do this.
- Locate the fixtures in the VenueMagic database and add them to the VenueMagic project (see <u>Add Fixtures</u>). Note: some of the fixtures you need may not be available in the VenueMagic library. You may add them yourself using the <u>User Fixture Library</u>, or request a fixture from <u>support@venuemagic.com</u>.
- 3. Use the <u>Map Fixtures to Visualizer</u> window to map VenueMagic fixtures to capture fixtures.

Example #2: Adding Capture fixtures to map to existing VenueMagic fixtures.

If you wish to add fixtures to a Capture project to map to an existing VenueMagic, there are a couple of approaches:

Approach #1 – Best for large numbers of fixtures.

- 1. Print out a list of all VenueMagic project fixtures (*Files* \rightarrow *Reports* \rightarrow *DMX Fixtures*).
- Locate matching fixtures in Capture library and add them to the view. The Capture fixture library is extensive but there are a number of VenueMagic fixtures that Capture does not support. Contact Capture Sweden concerning updates to you Capture Polar library (<u>http://www.capturesweden.com</u>).
- 3. Use the <u>Map Fixtures to Visualizer</u> window to map VenueMagic fixtures to capture fixtures.

Approach #2 – Good for small numbers of fixtures.

- 1. Right-click on a fixture in the <u>Add Fixtures</u> window and select *Map to Visualizer*. This will open the <u>Map Fixtures to Visualizer</u> window with the fixture selected.
- 2. Click Add to Visualizer and add a new fixture to the Capture Console Path window using the Add Fixture to Visualizer window.

Example #3: Mapping fixtures automatically through DMX addressing.

Whether you use Example #1 or #2 above, you can really speed-up the mapping process by making sure to give VenueMagic fixtures and their Capture counterparts the same DMX addresses. Then you can map them automatically using the Auto-map tool in the <u>Map Fixtures to</u> <u>Visualizer</u> window.

Edit Fixture Settings

Customize settings for fixture channels.

ame: 04Channel			OK
xture: 04-Channel			Cancel
ype: Lamp			
Channel Name	Туре	MergeMode	Test
Portable_Stage_Front	Dimmer	HTP	
S3_Left	Dimmer	HTP	1 1
Portable_Stage_Left	Dimmer	HTP	1 1 1
Portable_Stage_Front	Dimmer	HTP	
	1		1 1
	$\langle \rangle$		111

Fixture channel list

Name:	Enter the desired name for the fixture channel or leave it as the default. This name can contain only letters, numbers or the underscore ('_'). The name must also be unique within the project.
Fixture:	Manufacturer's name for the fixture (not editable).
Туре:	Fixture type (not editable).
Fixture channel list	
Channel Name	Click on a channel in the list to select it. Then click again in the Channel Name column to change the name. When you have finished entering the name, press the <i>Enter</i> key. (See: <u>Setting Fixture Channel Names</u>).
Туре	Displays the channel type. Not editable. (See: <u>Fixture</u> <u>Channel Types</u>).
Merge Mode	Click on a channel in the list to select it. Then click again in the Merge Mode column to activate the merge mode selector. Select the desired mode and press <i>Enter</i> . (See: <u>Fixture Channel Merge Modes</u>).
Test	Dragging this slider will output the DMX level for the selected channel. Use this to make sure the fixture hardware is addressed properly.

Setting Fixture Channel Names

Fixture channel names are generally displayed as dot notation in the form:

fixture_channel_subchannel

The subchannel is optionally used when the library has grouped several channels into one *composite* channel for convenience (see Fixture Channel Types). You can change the name of channel in the fixture channel list of the <u>Edit Fixture Settings</u> dialog window. This list omits the fixture portion of the channel name, displaying it as:

channel.subchannel

Again, *subchannel* is optional depending on what the library has defined. The following rules apply as you change channel names in the list that include the *subchannel* (note: these rules do not apply for *channel* names that do not include a *subchannel*):

- 1. You may enter *subchannel* name without retyping the *channel* name. The channel name is automatically added when you press *Enter*.
- 2. You may change the *channel* name by entering *new_channel.subchannel*. When you press enter, all of the *channel* names for that channel in the list will be changed to the new name.

_		_	
	Channel Name		Channel Name
	RGB1.Red		RGB_1.Red
	RGB1.Green		RGB_1.Green
	RGB1.Blue	\rightarrow	RGB_1.Blue
	RGB2.Red		RGB2.Red
	RGB2.Green		RGB2.Green
	RGB2.Blue		RGB2.Blue

Example: Changing RGB1.Red to RGB_1.Red:

Fixture Channel Types

The VenueMagic fixture library defines several channel types. These channel types help VenueMagic know how to deal with a particular channel or group of channels. Channel types mainly affect the operation of the <u>Envelope Editor</u>, the Lamp Preview Window and all Lamp Effects. The are pre-defined and not user-settable. The channel types are:

Bitfield (Available in SC+ and above)	Splits DMX channel into 8 separate VenueMagic subchannels, each channel representing a single bit in the DMX output value. Individual bit channels are selectable as <i>On</i> or <i>Off</i> .
Color Wheel	A special case of the Selector type designed to deal with color wheel selection.
Dimmer	Defines a dimmer channel.
Dimmer16	Defines a high precision dimmer channel that take two DMX channels.
Gobo Wheel	A special case of the Selector type designed to deal with gobo selection.
Motion	Any channel that deals with a single channel of

motion.

Motion XY	Composite of two motion channels in a scan (x- y) head that can work in coordination with each other (to make circles, for example). Further divided into subchannels <i>X</i> and <i>Y</i> .
Motion PT	Similar to Motion XY type, but deals with pan-tilt heads. Further divided into subchannels <i>Pan</i> and <i>Tilt</i> .
Motion XY-16	Same as Motion XY, but takes two DMX channels for higher precision.
Motion PT-16	Same as Motion PT, but takes two DMX channels for higher precision.
Motion PT	Similar to Motion XY type, but deals with pan-tilt heads. Further divided into subchannels <i>Pan</i> and <i>Tilt</i> .
Motion-16	Same as Motion but takes two DMX channels for higher precision.
Reserved	For channels that have no purpose but have been reserved by the manufacturer for one reason or another.
RGB	Defines an RGB (Red-Green-Blue) <i>composite</i> channel. RGB channels are further divided into three the subchannels: <i>Red</i> , <i>Green</i> and <i>Blue</i> .
Selector	Any channel that uses a range of values to select a lamp function.
Speed	For channels that set the speed of a lamp function.
Time Duration	For channels that set a time duration for a lamp function.
Time Interval	For channels that set a time interval for a lamp function.

Fixture Channel Merge Modes

You may wish to control a single <u>fixture channel</u> from several sources at once. For example, you can add the same channel to multiple <u>lamp tracks</u> in a <u>timeline</u> (or in different timelines) and simultaneously run multiple <u>lamp effects</u> on the same channel. VenueMagic will merge (or mix) all of the sources into the channel according to preset merge mode. The merge mode for each channel maybe set in the <u>Edit Fixture Setting</u> window to one of the following:

Add

All sources are added together before output to the channel.

Average	All sources are added together and the resulting value is divided by the number of sources before output to the channel.
HTP (highest takes precedence)	The highest value among all the sources is output to the channel.

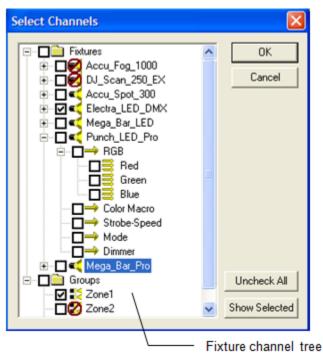
In addition, the <u>Channel Router</u> offers the following merge modes that pertain only to level commands it sends:

Default	Behaves a defined in the Edit Fixture Setting window.
HTP (highest takes precedence)	The highest value among all the sources is output to the channel.
Add	Adds in the Channel Router level regardless of the merge mode set in the Edit Fixture Setting window.
Scale	Scales the final result of all other sources going into the channel. Acts somewhat like a "master level control" for the channel.
Override	Takes complete control of channel(s). No other source will affect it. If more than one route is set to Override for the same channel, the results will be unpredictable.

The <u>Lamp Track Channel Settings</u> window offers these merge modes that pertain only to the level commands for a channel sent by the associated track:

Default	Behaves a defined in the Edit Fixture Setting window.
HTP (highest takes precedence)	The highest value among all the sources is output to the channel.
Add	Adds in the channel level regardless of the merge mode set in the Edit Fixture Setting window.
Scale	Scales the final result of all other sources going into the channel. Acts somewhat like a "master level control" for the channel.

Select Channels



This window is used by VenueMagic functions that need the user to select one or more fixtures, channels or groups. These functions include:

- Adding channels to Lamp Tracks.
- Selecting channels to be displayed in the Lamp Preview window.
- Selecting output channels for the <u>Channel Router</u>.

The behavior of the Select Channels window adapts to the needs of the function that uses it. In general, it has two top level folders: *Fixtures* which contain all <u>fixtures</u>/channels and *Groups* which contains all user-defined <u>groups</u>. The following apply:

- Icon meanings:
 - Lamp fixture
 - Lamp fixture channel or subchannel
 - Fixture channel with multiple subchannels.

Fixture channel group

- Items with the 2 icon cannot be selected. This is to prevent duplication of channels within a single track (applies to Lamp Tracks only).
- Checkbox rules for different functions:

Lamp Tracks	Checking the checkbox for any item in the tree will
	select that item and all child items associated with it.

Lamp Preview Any item can be selected individually without

Window	affected the selection of other items
--------	---------------------------------------

Channel Router Only one item at a time can be selected. Other items are automatically deselected.

• The Uncheck All and Show Selected buttons behave accordingly for all functions.

Group Builder

(Only Available for VenueMagic Classic and above)

The Group Builder lets you combine multiple fixtures, channels and even other groups into a singles group. VenueMagic offers a variety of group functions that simplify lamp control for large numbers of channels with similar functions.

Group Builder				
Group List: Group AllAmberU AllBlueU AllBushTreeLights AllLightsU AllLightsU AllLightsU AllLightsU BassBeatU Bush1U Bush23 Control group channels: All separate channel	Chns 7 6 28 28 9 1 3 6 9 1 3 6 V	Select Groups in Group:	Select Fixtures/Channels in Group: Image: Split S	Close Show Selected
New Group Remove	:	Check All Uncheck All	Check All Uncheck All Special	

Group List

Select from existing groups which group you would like to add members to. The Chns column shows how many channels are currently in the group. To rename a group, click on the group to select it, then click the Group column to change the name.

Control group channels	 Defines how a group will behave. Select from: As separate channels: Fixtures and channels in group are individually controlled. The group type is used mainly to make it easier to organize fixtures and channels together. In unison: Fixtures and channels are treated as if they were a single channel. Each channel will receive the same channel level.
New Group button	Add a new group.
Remove button	Remove the selected group from the list

Group Notes

Enter notes for group.

Select Groups in Group

Check the checkbox next to the groups you would like to add to the currently selected group. Groups with the \bigcirc icon cannot be checked because doing so would cause channel duplication within the selected group.

Check All button	Check all groups in the list that do not have the icon.

Uncheck All button Uncheck all checked groups.

Select Fixtures/Channels in Group

Check the checkbox next to the fixture or individual channels you would like to add to the currently selected group. Groups with the icon cannot be checked because doing so would cause channel duplication within the selected group. Checking a fixture implies that all channels within the fixture are also included in the group, even though they are not checked. Checking a channel will uncheck its fixture.

Check All button	Check all fixtures/channels in the list that do not have the 🖉 icon.
Uncheck All button	Uncheck all checked fixtures/channels.
Special button	Opens the Check Special Groups dialog window.
Show Selected button	Expands the tree to show all selected fixtures/channels.

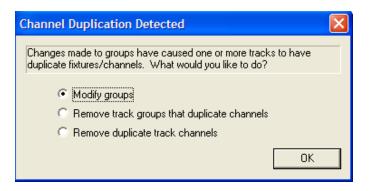
You may a single channel to as many groups as you like.

Check Special Groups

Check Special Groups		
 ✓ Check channel type: ✓ Filter by fixture type ✓ Color Wheel ✓ Dimmer ✓ Gobo Wheel Motion Motion PT Motion XY Pan RGB 	 Check fixture type: Dimmer Pack Fogger Lamp Laser Moving Head In RGB Lamp Scan Head Strobe 	OK Cancel

Channel Duplication Detected

When the Group Builder window is closed, VenueMagic will run a check on all project timelines to make sure that the changes you made did not cause any single track to have duplicate channels. This can happen when a lamp track within a timeline contains a fixture, say, Fixture A, and a group, Group 1, that does not contain Fixture A. If Fixture A is then added to Group 1 while in the Group Builder window, a duplicate track channel is detected and the following dialog window appears.



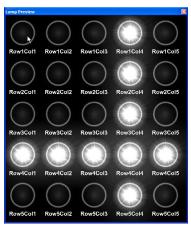
The following solutions are offered:

- *Modify groups*: The Group Builder is reopened and you can make changes to correct the problem.
- **Remove track groups that duplicate channels**: Offending groups are removed from the affected tracks.
- **Remove duplicate track channels**: Offending channels (rather than groups) are removed from the affected tracks.

Important Uses for Channel Groups

Channel groups are very powerful though it may not always be clear what they can be used for. Here are just a few examples of how Channel Groups can be used:

- **Zoned light balancing**: After setting up all of your timelines with desired lighting effects, you may wish to independently control zones of lights to balance them without messing with the timelines. You can do this by assigning all of the lamp channels in each zone to a unison group. Then add it to the Channel Router (with merge mode set to Scale). You will be able to control the master level of each zone without having to make any changes to timelines.
- **Stage light color balancing**: The zoned light balancing application described above could be modified to allow individual control of different colored lights on a stage. This will allow you to do on-the-fly stage lighting color adjustments without interfering with timelines—even during playback.
- **Overlapping channel effects**: You can have multiple channel effects working simultaneously on multiple groups that have overlapping channels. A good example of this would be an array of lamps (say 5x5) that you want to use to create a chaser pattern of vertical and horizontal lines (see figure). Simply create a unison group for each row and each column (total 5 groups of each) and put the appropriate lamp channels in each. Now create a timeline with two lamp tracks. Put all the rows in one and all the columns in another, then put a chaser in each track and run it. Presto—a chaser pattern of vertical and horizontal lines.
- **Custom fixtures**: If the fixture you have is not in the library, let us know and we'll stick it in. In the meantime, add multiple fixtures from the "Generic" fixtures in the library and "glue" them together in a group.



Calibrate Lamps

(Only Available for VenueMagic Classic and above with some features available only in SC+ and above)

hannel:						/el scaling		- Ease in/out-	Test-
Channel	Туре	Address	_						
04Channel.Level1	Dimmer	DMX_00_001		0.0	43.8	100.0	27.4	100.0	80.7
04Channel.Level2	Dimmer	DMX_00_002		- 1	- 1	-< 1	- 1	-<	- r -
34Channel.Level3	Dimmer	DMX_00_003				T		T	
04Channel.Level4	Dimmer	DMX_00_004		-	-	-	-	-	
A641.Strobe	Dimmer	DMX_00_073		-	-	-	-	-	
A641.RGB.Red	RGB-Red	DMX_00_074		_					
A641.RGB.Green	RGB-Green	DMX_00_075		-			-	-	
A641.RGB.Blue	RGB-Blue	DMX_00_076		-	-	-	-	-	
A640.Strobe_Light	Dimmer	DMX_00_105							
A640.Dimmer	Dimmer	DMX_00_106		-	25	-	-		
A640.Color_Macro	Dimmer	DMX_00_107		-	- "	-	-	-	
A640.RGB.Red	RGB-Red	DMX_00_108		-				-	
A640.RGB.Green	RGB-Green	DMX_00_109							-
A640.RGB.Blue	RGB-Blue	DMX_00_110		-	-	-	-	-	
A640.Speed	Speed	DMX_00_111		-	-	-	-	-	-
A2858.Shutter	Selector	DMX_00_112							
A2858.Level	Dimmer	DMX_00_113		-<	- 1	- 1	- 1	- 1	
A2858.Color	Color Wheel	DMX_00_114		Low	Mid 🔽	High	Rest	Enable 🔽	- 1
A2858.Position.Pan	Pan	DMX_00_115	-	LOW	Mid I¥	High	hest	Enable IV	·

Calibrating Lamp Settings

When setting-up and programming lamps for a show, there are a few things that should be kept in mind:

- It is not wise to frequently turn lamps on and off because it wears out the filament much faster, reducing the life of the bulb. The best thing to do is to select an "off" level that is still on, but at a very low level.
- It is unnecessary to run a lamp at 100% when a lower level is sufficient. This also improves bulb life.
- Bulbs are usually non-linear, meaning that setting a level of 50% does not appear to turn the light on half brightness.

Use the *Low*, *Med* and *High* to compensate for each of the above issues. Use the *Low* and *High* sliders to setup a "virtual" range of lamp levels to be used during timeline playback. If desired, enable the *Mid* slider to make the lamp control more "linear." Once set, you can test your settings using the *Test* slider. A simple procedure for setting-up lamps is as follows:

- 1. Select the *lamp channel* you wish to calibrate.
- 2. Drag the *Low* slider and pick a lamp level that is barely visible. (The lamp level will change to reflect the level of the slider the moment you start sliding it).
- 3. Drag the *High* slider to set the lamp level to the maximum brightness level you believe you will need.
- 4. If desired, check the *Mid* checkbox to enable the *Mid* slider, and then drag the slider until the lamp level appears to be at roughly half brightness.
- 5. Drag the *Test* slider up and down to test your settings. It should appear to go up and down smoothly. If not, adjust the *Mid* slider until you are happy with the results.
- 6. Repeat steps 2-6 for each channel you wish to calibrate.

Important note: If the *Mid* slider is enabled, the calibration method uses a parabolic function to help compensate for lamp linearity problems. If you notice strange "dips" or "rises" in the lamp intensity as you move the Test slider, then you may have positioned the *Mid* slider too close to one of the other two. Positioning the *Mid* slider a little closer to the center of the range should eliminate this problem.

Setting Range of Motion for Moving Heads

You can use the lamp calibration window to set the range of motions for moving heads:

- 1. Select a channel that controls motion.
- 2. Make sure that the *Mid* slider is disabled (uncheck the *Mid* box)
- 3. Adjust the Low and High sliders to encompass the desired range of motion.
- 4. Verify the range using the Test slider.

Channel Rest Setting (SC+ and above only)

The *Turn Lamps Off* function in the *Devices* menu of the VenueMagic main menu as well as the *Turn off lamps after playback* settings in the <u>Timeline Lamp Options</u>, <u>Playlist Lamp Options</u> and the <u>Envelope Editor Settings</u> windows are all functions that set channel output values to zero for the described condition. In many cases, a channel value other than zero may be desired. For instance, turning a lamp "off" in the case of certain lamps requires setting a gobo or color channel to a "black out" setting, which may not necessarily be at zero. Animatronics and other position control devices my also need defined a "rest" or "home" position that is not at zero. Use this slider to define a rest position that is used instead of zero for the conditions described above.

Ease-in/out Setting (SC+ and above only)

This feature is primarily a safety feature for control of motion axes in animatronics and other devices. Adjust this slider to adjust the maximum acceleration that can occur on this channel. Any level commands sent to the channel will first pass through this acceleration limiter to prevent any fast, jerk movements that may damage*. The higher the slider value, the lower the acceleration. Try experiment with different setting, testing them with the *Test* slider, until you find one that best suits your situation.

This should not be confused with the ease-in/out functions associated with the <u>Timeline Lamp</u> <u>Options</u> and the Project Options, which are independent and not related to the Calibration window ease-in/out function.

*Note: Please review the <u>VenueMagic End User License Agreement</u> which limits Entertainment Sciences Group, Inc's liability with respect to damage to equipment arising out of the use of VenueMagic products.

Copy and Paste Settings

You can copy the settings of a selected channel into another channel by doing the following:

- 1. Select the channel you wish to copy settings from.
- 2. Click the **Copy** button.
- 3. Select the channels you wish to paste settings to (hold down the Ctrl key to select multiple channels).
- 4. Click the **Paste** button.

Additional Functions

Revert	Restore calibrations settings for a selected channel to the values it had before being selected.
Reset	Restores calibration settings to their default values of <i>Low</i> =0%, <i>Mid</i> =50% and <i>High</i> =100%.
Filter by	Select the channel type to filter the channel list by, or select <i>All</i> to chow all channels.
Zero All Levels (Not available in SC+)	Sends a zero level command to all channels. Does not affect calibration settings.
Invert level	Tells VenueMagic to invert any level command sent to the selected level so that a value of zero

corresponds to full on and 100 corresponds to full off. Inversion takes place before scaling, so that the set min and max levels are not affected.

Channel Routing

(Only Available for VenueMagic Classic and above)

Control channels or group of channels from an external source. External sources include MIDI input and the <u>Virtual Control Surface</u> (VCS).

Filter by routing group All Unassigned Edit Routing Group List			Add	
Input Channel	Output Channel	Merge Mode	Routing Group	Remove
DMX_00_001	_04Channel.Level1	Default	<unassigned></unassigned>	E dit
✓ DMX_00_002	_04Channel.Level2	Default	<unassigned></unassigned>	
☑ DMX_00_003	_04Channel.Level3	Default	<unassigned></unassigned>	
✓ DMX_00_004	_04Channel.Level4	Default	<unassigned></unassigned>	
MIDI_01_CTRL_008	DJ_Spot_250.Position.Pan	Default	SliderBank2	
MIDI_01_CTRL_008	A2025.Position.Pan	Default	SliderBank1	
MIDI_02_CTRL_008	DJ_Spot_250.Position.Tilt	Default	SliderBank2	
MIDI_02_CTRL_008	A2025.Position.Tilt	Default	SliderBank1	
MIDI_03_CTRL_008	DJ_Spot_250.Color	Default	SliderBank2	
MIDI_03_CTRL_008	A2025.Color	Default	SliderBank1	En al la constinue
MIDI_04_CTRL_008	DJ_Spot_250.Gobo	Default	SliderBank2	Enable routing
MIDI_04_CTRL_008	A2025.Gobo	Default	SliderBank1	Enable override:
MIDI_05_CTRL_008	DJ_Spot_250.Selection	Default	SliderBank2	Ext. Ctrl.
MIDI_05_CTRL_008	A2025.Shutter	Default	SliderBank1	Exc. Onc.
MIDI_05_CTRL_008	A2025.Level	Scale	SliderBank1	Close

To add a channel route, click on the *Add* button to bring up the <u>Add Channel Route</u> dialog window. Likewise you can remove selected channel(s) by clicking on *Remove*. The *Edit* button brings up the *Edit Channel Route* window, which is identical to the *Add Channel Route* window.

Beside each route entry is a checkbox that can be used to enable (checked) or disable (unchecked) the route entry. Uncheck the *Enable routing* checkbox to disable general channel routing. The *Enable override* checkbox will let you enable/disable all routes with the <u>merge mode</u> set to *override*.

Click the *Ext. Ctrl* button to setup external control of enabling/disabling general routing and routing override (see <u>General Channel Routing External Control</u>).

To show routes only for a single <u>routing group</u>, check *Filter by routing group* and select the group you would like to see.

To add, remove or edit routing groups, click on *Edit Routing Group List* to bring-up the <u>Channel</u> <u>Routing Groups</u> window.

Add Channel Route

Sets up a new channel route in the Channel Routing window.

<u>? ×</u>
Select
Select
Edit Routing Group List
nal control: Threshold %:
I_BTN1 0
I_BTN1 0
es: Bank1 💌
,
OK Conset
OK Cancel

Input channel	The input channel that will be routed to the output channel. Click the adjacent <i>Select</i> button to bring up the <u>Select External Control</u> window.
Output channel	The output fixture, channel or group. Click the adjacent Select button to open the <u>Select</u> <u>Channels</u> window.
Routing group	Select the <u>routing group</u> to assign this route to, or leave it " <unassigned>". This route is enabled only when the its routing group is active. Routes that have not been assigned to a routing group are enabled regardless of which routing group is currently active.</unassigned>
Merge mode	Select how the input channel will affect the output channel. See Fixture Channel Merge Modes.
Enable/disable Route with external control:	Check this box if you would like enable/disable the route with an external control. Input sources and thresholds for enabling and disabling the route can be set independently. The <i>Select Enable Source</i> and <i>Select Disable Source</i> buttons will each bring-up the <u>Select External Control</u> window for selecting the enable source and the disable source, respectively. This is the equivalent of checking/un-checking the route enable box in the channel routing list in the <u>Channel Routing</u> window.
Set variable when preset changes	Check this box to have the current value of the routes input assigned to a variable in the <u>Variable</u> <u>Table</u> . Since variables can be redirected to MIDI controller outputs, this features becomes very

useful if for controlling motorized slider consoles being used in conjunction with channel routing.

If a fixture is selected as an output channel, all channels in the fixture will be simultaneously affected by input channel. The same will happen if a group or a channel with sub channels is selected. (See: <u>Fixtures</u>, <u>Group Builder</u>).

General Channel Routing External Control

Channe	Routing External Cont	trol	×
🔽 Ena	ble/disable Routing with e	xternal control:	Threshold %:
	Select Enable Source	JS_1_BTN4	이
	Select Disable Source	JS_1_BTN4	0
🔽 Ena	ble/disable Override with e	external control:	Threshold %:
	Select Enable Source	JS_1_BTN5	0
	Select Disable Source	JS_1_BTN5	0
Nav	vigate routing groups with	external control:	
	Next Group Source	JS_1_BTN6	0
	Prev Group Source	JS_1_BTN7	0
	Last Group Source	JS_1_BTN8	0
		ОК	Cancel

You can control general routing and override routing using external controls. This is the equivalent of checking/un-checking the *Enable routing* and *Enable override* boxes in the <u>Channel</u> <u>Routing</u> window.

Enable/disable Routing with external control	Check this box if you would like enable/disable general routing with an external control. Input sources and thresholds for enabling and disabling the route can be set independently. The <i>Select</i> <i>Enable Source</i> and <i>Select Disable Source</i> buttons will each bring-up the <u>Select External Control</u> window for selecting the enable source and the disable source, respectively.
Enable/disable Override with external control	Check this box if you would like enable/disable all override routing with an external control. Selecting external control is identical to selecting for general routing (above).
Navigate routing groups with external control	Check this box if you would like to enable <u>routing</u> group navigation. Then setup external control for source each of the following functions:
	Next Group – causes the activation of the next routing group in the list (relative to the currently

active group).

Previous Group – causes the selection of the previous routing group in the list.

Last Group – causes the activation the routing group that was active just before the currently active group was selected. For instance, if group "A" is selected, followed by group "C", the *Last Group* function will restore "A" as the active group.

Channel Routing Groups

(Only Available for VenueMagic DMX+AV and above)

Channel Routing Groups		×
Routing Group	External Control	Add
SliderBank1 SliderBank2 SliderBank3	JS_1_BTN13 JS_1_BTN14 JS_1_BTN15	Remove
Enable external control for group	Select Threshold: 50	OK Cancel

Channel routing groups enable you to enable/disable multiple channels routes at a time. This has many applications, the most obvious of which is setting up slider banks where a limited set of sliders can control an unlimited number of channels simply by changing the slider bank.

The *Channel Routing Groups* window manages the routing groups available in a project. It is accessed by clicking on the *Edit Routing Group List* button in either the <u>Channel Routing</u> or <u>Add/Edit Channel Route</u> windows.

Routing Group list	Lists routing groups and associated external control channel (if any). If no external control channel is selected, " <disabled>" is displayed.</disabled>
Add	Click this button to add routing group to the list with a default name. The <i>Routing Group</i> column for the new group is enabled for editing so you can enter name for the group.
	Change the name for an already added routing group by selecting the group, and then clicking in the <i>Routing Group</i> column.
Remove	Click to remove selected routing groups from the list.
Enable external control	Check this box to enable external control of the

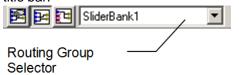
for group currently selected routing group. Next, click Select to bring-up the <u>Select External Control</u> window, select an external input, then fill in the appropriate threshold value (see <u>Understanding</u> <u>Threshold Values</u>).

When the selected external input is received with the proper threshold value, this group will be selected by the Channel Router.

Real-time Selection of Routing Group

Only one routing group can be active at a time. There are three ways to select the currently active routing group:

1. Manually select a routing group using the routing group selector in the applications main title bar.



- 2. External control:
 - a. Activate a specific routing group (*Enable external control for group* checkbox above)
 - b. Navigate through presets sequentially (see <u>General Channel Routing External</u> <u>Control</u>).
- 3. Using the Set Routing Group event.

Unassigned Routes

If a channel route is not assigned to a routing groups it will display "<Unassigned>" in the <u>Channel Routing</u> list. Unassigned routes are active at all times, regardless of the currently selected routing group.

Projects

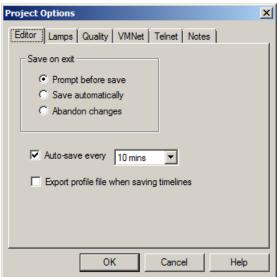
VenueMagic organizes all of your <u>fixtures</u>, <u>groups</u>, <u>audio files</u>, <u>timelines</u>, <u>playlists</u>, <u>cue button</u> settings, <u>lamp preview</u> settings, <u>VCS</u> settings, <u>channel routing</u> settings and a number of other settings, into **projects**. Think of a project as being basis for your "show" with each different show being stored in a different project.

When VenueMagic runs for the first time, it automatically creates a project for you and gives it the name "Project*n*" where *n* is the next available project number. From then on, VenueMagic will always load the project you were working on when you last exited the program.

Project Options

These options apply specifically to the currently loaded project.

Project Editor Settings



Save on exit	Specifies how VenueMagic will deal with unsaved modified files when the application is shut down. By default, the Prompt before save option is selected, which will prompt the user to save unsaved files before shutting down.
	Select Save automatically , and changes will be saved on exit with no user interaction.
	With Abandon changes selected, any unsaved changes will be abandoned when the application shuts down.
Auto-save every	Check this box to activate the auto-save feature, then select between 1, 5, 10, 30 and 60 minutes.
	Auto save only occurs at the designated interval if no timelines are running.
Export profile file when saving timelines	Check this box to automatically generate a profile file each time a timeline is saved. The exported file will have the same path and name as the original, but with a .vcp extension.

Project Lamp Settings

Project Options	×
Editor Lamps Quality VMNet Notes	
· · · · ·	
Ease-in "lamp off" commands	
Ease-in time (secs): 5	
,	
OK Cancel Help	

Ease-in Settings

The project ease-in setting sets how many seconds it will take to execute a Lamp-off function (*Main Menu, Devices* \rightarrow *Turn Lamps Off*). Rather than sending all channels immediately to zero (or rest position – see <u>Calibrate Lamps</u>), you can check the *Ease-in "lamp off" commands* box and set the Ease-in time (secs) value, which will cause channels "ease" to the zero position over the number of seconds provided.

Project Quality Settings

(Only Available for VenueMagic DMX+AV and above)

Project Options	×
Editor Lamps Quality VMNet Notes	
Lamp control quality C Low Medium High Lamp preview refresh Slow Medium Fast	
OK Cancel Help	

Lamp control quality

This setting gives you some control over the VenueMagic update cycles based on the needs of your application. *High* update rates are more precise, but limit the number of channels and the level of timeline complexity that can be controlled accurately at that rate. *Low* settings will handle

more channels and greater complexity, but at the expense of lower accuracy. The *Medium* setting is a compromise between the two.

The best way to determine a proper setting is to pick the one you desire, and then observe the Cycle Load gauge at the bottom right of the application window. If it starts to drift into the red zone while you're timelines are running, then you should probably select a lower quality.

Lamp preview quality

Similar to the Lamp control quality, this lets you set the accuracy of the <u>Lamp Previews</u>. If too many lamps in the preview screens are updating at a fast rate, it could impact the overall performance of VenueMagic.

Project VMNet Settings

(Only Available for VenueMagic SC+ and above. Some features available in DMX+AV)

Project Options		×
Editor Lamps Qua	ality VMNet Notes	L
Enable VMNet se VMNet Clients:	rver Setup	
Name	Server	Status
MyClient1	ESG5	Ready
MyClient2	ESG3	No server
MyClient3	ESG4	Closed
Add	Edit Remove	
	OK Cance	el Help

Enable VMNet server	Check this box to enable the <u>VMNet Server</u> . Click <i>Setup</i> to open the VMNet Server Settings window.	
VMNet Clients	This is a list of VMNet clients that have been created for the project. To create a new VM <u>Client</u> , click the <i>Add</i> button.	
Add	Click this button to add a new VMNet Client. This will open the VMNet Client Settings window.	
Edit	Opens the VMNet Client Settings window for the currently selected client.	
Remove	Click to remove selected clients from the VMNet Clients list.	

For more information on VMNet servers and clients, see <u>VMNet</u>.

VMNet Server Settings

This window sets up the <u>VMNet server</u>.

VMNet Server Settings	×
Accept events	ОК
 Accept sync Enable plug-in services 	Cancel
Pass code: 0 Port: 55221	
Port: 55221	

Accept events	Check this box to enable the VMNet Server to process remote event execution messages sent by <u>VMNet clients</u> .
Accept sync	Check this box to enable the VMNet Server to process time code messages sent by a <u>VMNet</u> <u>Time Code Source</u> .
Enable plugin-services	Check this box so the VMNet server will process messages from a <u>VenueMagic plug-in</u> running on another application.
Pass code	Enter in a VMNet Pass code. Can be a number from 0 to 2147483648. (See <u>VMNet Pass Codes</u>).
Port	IP port address of the server. This is an advanced setting and, in nearly every case, should be left at its default value. The only time is should be changed is if there is a conflict with another application using the same port, which is unlikely. Consult your network administrator if this is a problem.

VMNet Client Settings

Setup VMN	<u>et Client</u> .				
VMNet Client S	ettings		×	1	
Client name:	VMNet Client		ОК		
Server name:	ESG5		Cancel		
Pass code:	0				
Port:	55221				
Client name Name used by VenueMagic features to ider client.		tify			
Server nam	ne	The name or IP address of a VMNet server. Click the server of button to bring-up the Available VMNet Servers window.			
Pass code		Enter the pass code of the selected server.			
Port		Enter the IP port address used by the selected server (see Port field description in <u>VMNet Server</u> Settings window.			

Available VMINet Servers X Select VMNet server: OK Server IpAddress VM Type Version ESG5 192.168.1.106 SC+ 2.5.10 BETA Cancel Image: Server in the s

Available VMNet Servers

Shows a list of all VMNet servers currently detected on the network. Select the desired server and click *OK*. Click *Find Servers* to refresh the list. In some cases, it may be necessary to click *Find Servers* a couple of times to get a complete list.

After OK is clicked, the Select Server Reference window appears.

)
OK

Select whether to use the VMNet server name or IP address to reference the server. If you select *Name*, then the computer name of the server will be used. The advantage to this is that you can let VenueMagic figure out which IP address is associated with the server. The disadvantage is that it is slower and a lot of VMNet activity with that server will impact the performance of VenueMagic.

Selecting *IP Address* will result in faster, more efficient communications with the server (hence little or no performance hit). However, if your network router chooses to reassign your VMNet server's IP address, you will have to manually select the new IP address.

Project Telnet Settings

(Only Available for VenueMagic SC+ and above.)

Project Options		×
Editor Lamps Qua	lity VMNet Telnet	Notes
Enable Telnet se		
Telnet Clients:		
Name	Server	Status
VMTelnetClient	192.168.1.25	No server
Add	dit Remove	

Configures Telnet server and client settings for project.

Enable Telnet serverCheck this box to enable the VM Telnet server.Click
Setup to open the Telnet Server Setup window.Telnet ClientsThis is a list of Telnet clients that have been created

for the project, the server name or IP address and the connection status. Check/uncheck the box next to client *Name* to open/close the clients connection to the server.

> The Status field can be one of the following: *Closed* – connection is closed *Waiting* – waiting for the server to respond and

	 negotiate the connection. <i>Connected</i> – a successful telnet connection has been established. <i>Cnx Error</i> – Results when an internet error occurs. Can also result when client does not understand server's responses (see Expected server responses section of the <u>Telnet Client Setup</u> window). <i>Invalid login</i> – Server reported that login and or password were invalid. <i>Uncertain</i> – Client could not determine if login was a success based on the response of the server (see Expected server responses section of the <u>Telnet Client Setup</u> window). <i>No server</i> – A telnet server was not found at the specified address.
	To create a new client, click the Add button.
Add	Click this button to add a new Telnet client. This will open the Telnet Client Settings window.
Edit	Opens the Telnet Client Settings window for the currently selected client.
Remove Enable Telnet	Click to remove selected clients from the VMNet Clients list. Name used by VenueMagic features to identify client.

Telnet Server Setup

Sets up the <u>VMNet Telnet</u> server.

Telnet Server Set	up	×
Require login:		ОК
User name:	user	Cancel
Password:	password	
Quiet mode		
Prompt text: VM	Telnet>	
Error prefix: ERF	ROR:	
EOL string: [CF][LF]	

Require login	Check this box if the server should require a login. Then enter the user name and password the server will require.
Quite mode	Check this box to prevent the server from sending back any characters to the client.
Echo characters	When checked, the server echoes back every

	character it receives from the Telnet client.
Prompt text	Prompt text Telnet server shows after a successful login to indicate it is waiting for a command from the client.
Error prefix	The text that will precede any error messages returned by the Telnet server.
EOL string	Appended to the end of every line of text sent by the server.

Telnet Client Setup

Sets up a Telnet client.

Telnet Client Sett	ings X
Client name:	VMTelnetClient OK
Server address:	192.168.1.25 Cancel
☑ Use login:	
User name	e: admin
Password	********
Expected se	erver responses
User name prompt te	- Login'
Password prompt te	xt: Password:
Login succ text:	sess \$
Login faile text:	d Login incorrect
Client name	An arbitrary name identifying

Client name	An arbitrary name identifying the telnet client.
Server address	The computer name or IP address of the telnet server client will connect to.
Use login	By default this box is checked. Uncheck it if the telnet server this client will connect to does not require any type of login.
User name Password	Enter the user name and password the telnet server requires.

The *Expected server responses* section is where you tell the VenueMagic telnet client how to recognize prompts received from the telnet server. The default settings are sufficient in most cases, but should be modified as required.

User name prompt text	This is the text the client should expect from the server to indicate that the server is requesting a user name be entered. Exact text is expected (case is ignored).
Password prompt text	Text expected from the server to indicate a password request. Exact text is expected (case is ignored).
Login success text	All or part of the prompt indicating that login was successful.
Login failed text	Text indicating that login failed. Exact text is expected (case is ignored).

Project Visualizer Settings

(Only Available for VenueMagic Classic and above.)

Configures interface to Capture Polar[™] Visualizer.

Project Options	×
Editor Lamps Quality VMNet Telnet Visualizer N	otes
Enable Capture visualizer interface	
Select active visualizer:	
Name	Status
Capture 2005 @ ESG-PRESARIO (192.168.1.105)	Opened
Add Remove	
OK Cancel	Help

VenueMagic supports interfacing to the *Capture Polar* 3D Visualizer versions 2.8.11 and above. The Capture Polar visualizer is not included with VenueMagic and must be purchased separately (<u>http://www.capturesweden.com</u>). *Check Enable Capture visualizer* interface to enable this feature.

The interface is Ethernet-based, so you can run Capture Polar on the same computer or on another computer. Since both Capture and VenueMagic require a lot of processor power, it is recommended that you run them on separate computers unless you have a lot of memory and processing power. Computers running separately need to be connected to the same local area network.

The *Select active visualizer:* list shows all of the instances of Capture Polar you have registered with your VenueMagic <u>Project</u> and their current status. The list columns are:

NameThe name of the registered instance of Capture.StatusThe current status of instance. Can be one of the
following:Closed – This instance of capture is currently not
running.Opening – VenueMagic has connected with
Capture and is sharing information.Opened – Connection has been established and
Capture is ready for use.

Error – A communications error has occurred. Close down Capture and VenueMagic and try again.

If no instances have been registered, this list will be empty.

To register an instance, click Add to bring-up the Connect to Visualizer window.

Connect to Visualizer		×
Name	Туре	State
Capture 2005 @ ESG-PRESARIO (192.168.1.105)	Visualizer	Running
	OK	Cancel

This list shows every instance of Capture Polar currently running on the network or on the same computer, along with the *Type* and *State* information reported back by capture. Select the instances you wish to register and click *OK*.

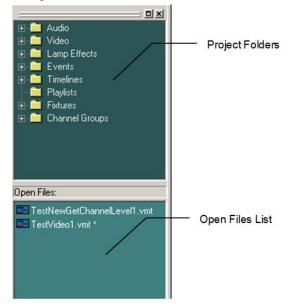
Once an instance of Capture has been registered, it will remain on the *Select active visualizer* list even when it is not running. Registering Capture instances in this fashion is necessary to enable VenueMagic to keep track of Capture project information within the VenueMagic project file.

Although you can have multiple registered instances, VenueMagic will control only one at a time. In the *Select active visualizer* list, check the instance you would like VenueMagic to control.

Click Remove in the Visualizer Settings window to remove an instance from the list.

For information on mapping VenueMagic fixtures to Capture fixtures, see in the <u>Add Fixtures</u> section.

Project Window



Project Folders

Audio	Contains all audio files that have been imported into the project. To import audio files, right-click on the folder and select <i>Import Audio File</i> to import one or more individual files in a single directory, or Import Audio Library to search an entire folder and its subfolders for audio files and import them. Import Audio Library also retains the folder structure the files are found in. Only wave (.wav) files, MP3 and Window Media (.wma) files are supported.
Video	Contains all video files that have been imported into the project. To import video files, right-click on the folder and select <i>Import Video File</i> to import one or more individual files in a single directory. Most video formats are accepted.
Lamp Effects	Provides easy access to all of VenueMagic's built-in lamp effects (see: Lamp Effects).
Events	Provides easy access to all of VenueMagic's built-in events (see: Event Tracks).
Timelines	Contains all timelines that have been added to the project. A new timeline is automatically added to this folder when it is saved for the first time. (See: <u>Timelines</u> , <u>Importing Timelines</u> and <u>Playlists from another Project</u>).
Playlists	Contains all playlists that have been added to the project. Functions similarly to <i>Timelines</i> folder. (See: <u>Playlists</u>).
Fixtures	Contains all of the fixtures that have been added to the

	project. To add fixtures to the project, double-click on this folder to bring up the <u>Add Fixtures</u> window. You may also double click on a fixture or channel within the folder to edit its settings. (See: <u>Fixtures</u>).
Channel Groups	Contains all of the channel groups that have been added to the project. To add groups to the project, double-click on this folder to bring up the <u>Group Builder</u> window. You may also double click on a group within the folder to edit its settings.

Adding, Deleting & Renaming Subfolders

To improve the organization of you project, you can add your own subfolders to the Audio, Timelines and Playlists folders. Simply right-click on the desire folder or subfolder and select *Add Folder*. Similarly, you may rename a subfolder or delete it (along with all of its subfolders). Items and subfolders in the above mentioned folders may also be dragged into other subfolders.

Open Files List

This pane lists all currently opened project files. Right-click on a file to bring-up a menu with the following selections:

Show File	Brings the file to the front.
Close File	Closes the file.
Reload File	Timelines and playlists may make reference to other timelines. If changes are made to timeline currently referenced by a currently open timeline or playlist, it may be necessary to reload that timeline or playlist.
Add to Project	If the timeline or playlist is not part of the current project, select this to add it. This is another way of importing files into the project.

Copy Project Settings

When a new project is created, you are given the option of copying over certain settings of last opened project to the new project.

Copy Project Settings	
 Fixtures & Groups Channel routing Lamp preview 	ОК
VCS Mixer	
Audio Library C Load default C Copy current	
C Leave empty	

Fixtures & Groups	Copy all fixtures and groups into the new project.
Channel routing	Copy all programmed <u>channel routes</u> . Only permitted if <i>Fixtures</i> & <i>Groups</i> is checked.
Lamp preview	Copy all <u>lamp preview</u> settings. Only permitted if <i>Fixtures & Groups</i> is checked.
VCS Mixer	Copy all settings for the Virtual Control Surface.
Audio Library	 Select how audio library should be copied over. Load default. Copy library from original installation into new project. Copy current: Copy library from current project into new project. Leave empty: Do not copy any library into the new project. Note: Only links to audio files a copied. The files

Importing VenueMagic 2.1 Timelines and Playlists from another Project

themselves are not copied.

Opening a timeline created from a project other than the one currently loaded can pose certain complications. The timeline may contain fixtures not included in the project or, even it the project does contain those fixtures (or perhaps similar ones), how should substitutions be made? Fortunately, VenueMagic has a solution for this, though it does require a little interaction from the user.

Start by opening a "foreign" timeline into your project by selecting File \rightarrow Open from the main menu, and then selecting the timeline in the file list. VenueMagic will first check to see if all of the fixtures referenced in the timeline are included in main fixture library or the <u>user fixture library</u>. If some are not, VenueMagic will add them to the appropriate library and alert the user with the following window:

Fixture	Fixture type	Manufacturer	Library
MyColorKey8	RGB Lamp	ColorKey	User
MyNewFixture1	Lamp	Generic	User
MyNewFixture2	Moving Head	Generic	User

Click OK to continue.

Next, VenueMagic will show you a list of all of the fixtures referenced by the foreign timeline that are not included of the current project:

Add Fixtures From Timeline	×
The timeline you are loading was created in a project order to load this timeline, VenueMagic will first need of your current project. Fixtures to be added: Accu_Scan_250 Auto_Spot_150 COLORbank_LED_RGB_2 DimmerRGB MyColorKey8 MyNewFoture1 MyNewFoture2	t other than the currently loaded project. In
< <u>B</u> ack. <u>N</u> ext >	Finish Cancel Help

At this point, if all you want to do is add those fixtures to your project, simply click on *Finish* and you're done. Suppose, however, that you don't own some or all of the fixtures in this list and you need to replace them with similar fixtures that you do own. If this is the case, then click *Next*, and you will see the following:

Select Item Replacements 1. This list shows fixtures in the imported timeline that can be replaced by fixtures in this project. Select a fixture in this list and then check the fixture or fixtures to replace it with in the list on the right. Accu_Scan_250 Auto_Spot_150_2 COLORbank_LED_RGB_2 DimmerRGB MyColorKey8 MyNewFixture1 MyNewFixture2	2. This list shows shows project fixtures that can replace the imported fixture currently selected in the list on the left. If you wish to import the selected fixture rather than replace, do not check any replacements. 46HP_LED_3_Channel_Mode ✓ Auto_Spot_150 Auto_Spot_150_1 COLORpalette27	×
3. When you have finished replacements for impreplacements on the channel level,	Finish	_

List #1 on the left shows all of the new fixtures in the foreign timeline. At this point, nothing has been added to the project yet. List #2 on the right shows all of the fixtures currently included in your project. These fixtures will have been previously added by the user using the <u>Add Fixtures</u> window.

Select the first fixture in List #1, then, in List #2, check the fixture you would like to replace the selected fixture. Then select the next fixture and check its replacement, and so on. Any fixtures in List #1 that have not been assigned a replacement in List #2 will be added to your project.

When you have finished selecting replacements, click Next.

Select Channel Replacements				×
 The list to the right shows all of the fixture replacements you 	Fixture:		To be replaced by:	
selected on the previous page.	Accu_Scan_2		Auto_Spot_150	
Select a replacement to show	Auto_Spot_15	0_2	Auto_Spot_150_1 COLORpalette27	_
a list of fixture channel replacements in the list below.	MyNewFixture	1	46HP LED 3 Channel	
replacements in the list below.	MyNewrixture	1	40HF_CCD_3_Channel	···
2. The list below shows how cha	opolo within the	fisture will be re	alaood VanuaMagio bas de	
the best it can to recommend the				
dragging the channels into the de				,
Channel		To be replace	d by:	
Accu Scan 250.Position		Auto Spot 15	· ·	
Accu_Scan_250.Color		Auto Spot 15		
Accu_Scan_250.Gobo		Auto_Spot_15		
Accu_Scan_250.Gobo Rotation	1	Auto_Spot_15	0.Gobo Rotation	
Accu_Scan_250.Shutter-Strobe	;	Auto_Spot_15		
Accu_Scan_250.Reset-Internal		<no replacem<="" td=""><td></td><td></td></no>		
Accu_Scan_250.Speed of Moti	on	<no replacem<="" td=""><td>ent selected></td><td></td></no>	ent selected>	
< Back	Next >	Finish	Cancel He	
	TIOW	1111011		<u>ب</u>

In addition to selecting which fixture will replace another, you must also make sure that the individual channels in the fixture are replaced properly. If you are replace a fixture with an identical fixture this task is easy. However, if the two fixtures are not the same, VenueMagic may need some additional help.

In List #1, you will see a summary of all of the fixture replacements that were assigned in the previous screen. Select one of them, and List #2 will be populated with VenueMagic's best guest as to how the individual channels should be replaced. In most cases, VenueMagic will do a pretty good job. However, if changes need to be made, you can click and drag channels on the right side of this list to line them up with different channels on the left. This is, of course, subject to certain rules. For more details on how to modify channel replacements, see <u>Selecting Track</u> <u>Channel Replacements</u>, which functions similarly.

After you have verified (and perhaps corrected) channel replacements for channel, click *Finish*. VenueMagic will then request that save the foreign timeline under a different name so that the timeline under the old name will belong to its original project. If you do not wish to change the name, just save it with the same name in *Save As* file window.

Now, if you look at the <u>Add Fixtures</u> window, you will notice that the new added fixtures have been assigned addresses and are displayed in a different color. They will remain in this color until they are move to a different address.

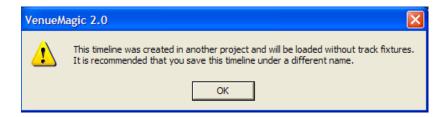
DMX Channel Mapping	
	1
1 2 3 4 5 6 7 8 910	J
5 6 7 8 9 10 11 12 13 14 15 16	Ê
21 22 23 24 25 26 27 28 29 30 31 32	
37 38 39 40 41 42 43 44 45 46 47 48	
51 30 39 40 41 42 43 44 45 40 41 40	
53 54 55 56 57 58 59 60 61 62 63 64	
69 70 71 72 73 74 75 76 77 78 79 80	
85 86 87 88 89 90 91 92 93 94 95 96	
181 182 183 184 185 186 187 188 189 190 191 192	
	-
229 230 231 232 233 234 235 236 237 238 239 2 245 246 247 248 249 250 251 252 253 254 255 2 Show universe: 1 Y Fixtures: 7 Channels:	

Now, let's review what VenueMagic did while importing the foreign timeline into your project:

- 1. Fixtures used by the timeline were added to your fixture libraries if they didn't already exist.
- 2. You selected fixtures in the current project to replace fixture references in the foreign timeline.
- 3. VenueMagic suggest channel replacements for each fixture replacement which you verified or modified.
- 4. VenueMagic modified foreign timeline with the fixture and channel replacements.
- 5. Fixtures that were not assigned a replacement were added to the project.

Importing VenueMagic 2.0 Timelines and Playlists from another Project

Timelines created in VenueMagic 2.0 cannot be imported with fixture references because they do not include the necessary information in them. When loading a VenueMagic 2.0 timeline from another project, the following warning is shown:



VenueMagic will load the timelines, but all <u>lamp track</u> fixtures will be removed. It is then the responsibility of the user to add fixtures to the timeline lamp tracks. It is important to change the name of the timeline (*File: Save Project as*) otherwise you will get the same message when the previous owner attempts to load the timeline.

As fixtures are manually re-added to the tracks, VenueMagic will do the best it can to intelligently reassign fixture channels settings for any <u>lamp effects</u> the track may contain. It may be a good idea to review all of the lamp effect settings after a fixture has been added to a lamp track just to make sure all the settings were reassigned properly.

Audio File Properties

This dialog window is displayed when you double-click on an audio file in the Audio Folder of the <u>Project Window</u>.

Audio File Pr	operties	
Name:	Final Edge.mp3	
Path:	C:\Documents and Setting Documents\VenueMagic\ Techno\Final Edge.mp3	
Duration:	334.5 secs	
Format:	MP3 Format Sound stereo	
Size:	59.01 MB	
Sample rate:	44.10 KHz	
		<u> </u>
		Cancel

Name

Enter into this field what should be displayed for the audio file in the Audio Folder of the Project Window. This will not change the name of the file itself.

The other fields are non-editable and are self-explanatory. Click the button to play the file.

Video File Properties

(Only Available for VenueMagic DMX+AV and above)

This dialog window is displayed when you double-click on a video file in the Video Folder of the <u>Project Window</u>.

Video File Pr	operties
Name:	VM Demo Ver 01
Path:	C:\Users\Admin\Documents\Videos\VM Demo Ver 01.avi
Duration:	412.2 secs
Format:	AVI video file
Size:	2571.48 MB
	OK Cancel

Name

Enter into this field what should be displayed for the video file in the Video Folder of the Project Window. This will not change the name of the file itself.

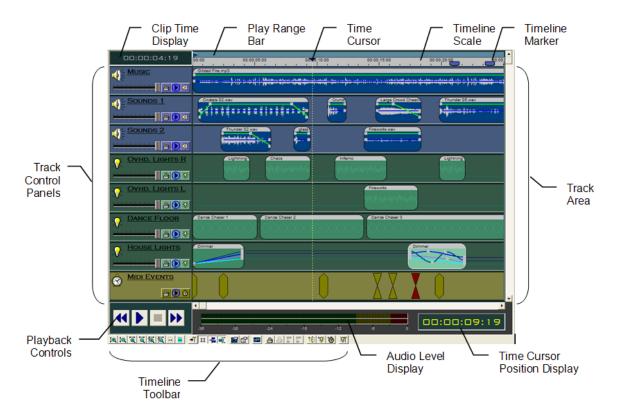


The other fields are non-editable and are self-explanatory. Click the button to bring-up a special Video Playback window with controls for previewing the video.

Timelines

Timelines are at the heart of VenueMagic operation. It is here that you produce your "show" by placing audio clips, lamp effect clips and event clips and organizing them into synchronized playback.

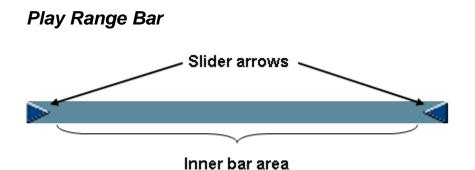
Anyone who has had experience with timeline-based video or audio editing software will find VenueMagic timelines simple and intuitive to use. In addition, your VenueMagic installation includes a number of tutorial videos to help you come up to speed quickly.



Clip Time Display

Shows the length of a selected clip. If multiple clips are selected then it shows the time range covered by all selected clips. While dragging a clip or clips, the display changes color and shows the start time of clip or clips.

Change the time format in <u>Timeline Options</u>.



The play range bar defines the start and end playtimes for the timeline. If auto adjust play range

is turned on, the bar will automatically resize itself to include all clips in the timeline. Click and drag the sliders arrows to set it manually. Click and drag the inner bar area to move both end points together.

Any manual movement of the play range bar will turn off auto adjust play range.

Timeline Scale

Shows the currently displayed time range. Use the horizontal scroll bar to scroll through time. To change the time range scale use the \overrightarrow{e} or \overrightarrow{e} toolbar buttons. You can also set the scale range in the <u>Timeline Options</u> window.

Change the time format in <u>Timeline Options</u>.

Timeline Markers

(Only Available for VenueMagic Classic and above)

Timeline markers can be placed on the <u>timeline scale</u> of a <u>timeline</u>. There are two types of timeline markers, *general* and *teleprompter*. Teleprompter markers are for use with the VenueMagic Teleprompter window, and are discussed in the following sections:

Teleprompter Timeline Teleprompter Markers

The remainder of this section will be devoted exclusively to general timeline markers.

General timeline markers let you mark location in the timeline that you can return to later. To insert a marker, right-click in the timeline scale and select *Insert Marker* \rightarrow *General*.

Timeline	e Marker Settings		×
Label:	Drum Solo 1	Set Marker Color	OK Cancel
Notes:	Beginning of first drum solo.	<u>_</u>	
	1	V	

Now insert a label and some option notes for the marker. You can also select a color for the marker by clicking on *Select Marker Color*. When you move the mouse cursor over the marker, it will display the label for about a second, followed by the label and the notes together.

You can also add markers at the current time cursor position by hitting Ctrl-M. If this is done during playback, markers are added without displaying the Timeline Marker Settings window.

To move to a timeline marker, right-click in the timeline scale and select Goto Marker

0.6	- 0:	02:54.1
\geq	Insert Marker	
	Delete Marker	and the first second second second
	Select All Markers	under halt volle sites darie das til ande
	Marker Settings	
	Goto Marker 🔹 🕨	Begin Fade-out
_		Chorus 1
		Drum Solo 1
		Verse 1
		Verse 2

Linking Markers to Timeline Clips

Both *general* and *teleprompter* timeline markers can be linked to an audio, video, lamp control or event clip on the timeline. When linked, the markers will always follow the clip when moved. Follow these steps:

- 1. Select all markers you would like to link to a timeline clip.
- 2. Right-click on the timeline click to link to and select Link to Selected Markers.

Similarly you first select a clip, then right-click on a marker and select Link to Selected Clip.

Unlink a single marker linked to a clip by right-clicking on the marker and selecting Unlink from Clip.

Unlink all markers linked to a clip by right-clicking on the clip and selecting *Unlink from All Markers*.

Time Cursor

Marks the current playback position. Click the cursor handle to drag the cursor across the timeline. There are several options for how the time cursor will behave during and after playback. They are set in the <u>Timeline Options</u> window.

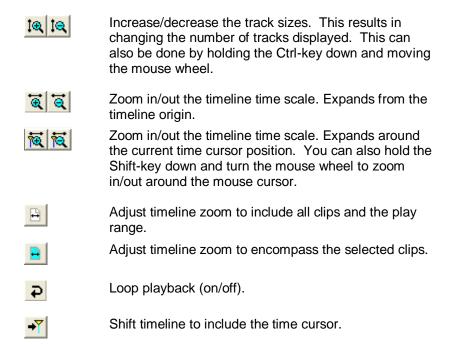
Time Cursor Position Display

Displays the current position of the time cursor. Change the time format in Timeline Options.

Timeline Audio Level Display

Graphically shows the audio levels of the timeline during playback.

Timeline Toolbar



8	Split selected clips at the current time cursor position. Clip must be both selected and intersected by the time cursor. Works for Audio, Video and Lamp Effect clips.
#	Enable/disable snap to grid feature. Grid spacing is set in the <u>Timeline Options</u> window.
→	Enable/disable snap to clip edge feature. With this feature enabled, clips being dragged will gently snap to the start and end times of other clips on the timeline. This makes it much easier to line clips up precisely.
■	Enable/disable auto adjust play range function for <u>Play</u> <u>Range Bar</u> .
	Show Timeline Options window.
r	Show properties window for selected clip.
• • ••	Show the Envelope Editor for selected clip.
<u>a</u>	Lock/unlock selected clip(s). This will prevent them from being moved on the timeline.
F	Link/unlink selected clips. Linked clips move together when dragged.
₹€ €	Add audio track.
±Q;€	Add lamp track.
1	Add event track.
<u>õ</u> r	Snapshot channels at time cursor. (see <u>Snapshot</u> <u>Channels</u>).
•	Enables recording for all selected <u>Level Control</u> effects for which recording has been set up.
	Locks record mode so that recording does not disable when playback stops.
2	Enables external synching if it has been setup for this timeline. (See <u>Timeline Synching Options</u>)

Playback Controls



Play timeline starting at <u>time cursor</u> position. *Hot key*: SPACEBAR (while not in playback).

Stop playback. *Hot key*: SPACEBAR (during playback).



During playback: Fast reverse slewing. *Not in playback*: Move to start of play range. *Hot key*: HOME (while not in playback only).

During playback: Fast forward slewing. *Not in playback*: Move to end of play range. *Hot key*: END (while not in playback only).

During playback, neither clips nor tracks can be moved or edited. Also, some of the toolbar buttons will be disabled. (See also: <u>Timeline External Control Options</u>).

Timeline Options

Timeline Options			
Timeline Playback Audio Lamps	External Control Synching	Security • •	
Time display format Secs Mins:Secs Hrs:Mins:Secs SMPTE Fps mode: 30 Measures:Beats:Ticks Base bpm: 120 Time sig: 4 4 Bottom	Auto-adjust play range bar Snap to clip edge Snap to grid Grid spacing (secs): Time range (secs): Tracks per page: Max envelopes shown per track:	 ✓ 0.0333333 20.066666€ 7 ★ 10 ★ 	
OK Cancel Help			

Timeline display format	 Select the time format for the timeline scale, time cursor position display and the <u>clip time display</u>. Select from the following: Secs: Show time in seconds and 1/100th seconds. Mins:Secs: Show time in minutes:seconds format. Hrs:Mins:Secs: Show time in hours:minutes:seconds format. SMPTE: Show time in standard SMPTE format. Select an fps mode of 24, 25, or 30 frames per second. Measures:Beats:Ticks: Show time as measure:beat:ticks. You can also select a base BPM and time signature.
Time range	Enter the number of seconds to be displayed in the timeline.
Tracks per page	Enter the number of tracks to display on a page.

Max envelopes shown per track	Sets the maximum number of envelopes that can be displayed in a single track. If a track contains many channels (> 50) the screen refresh begins to slow down notably This setting is to reduce clutter on the screen and to speed up screen refresh. This number will affect the number of envelopes that can be checked in the Lamp Track Envelope Properties dialog window.
Auto-adjust play range bar	Enable/disable auto adjust play range function for Play Range Bar
Snap to clip edge	With this feature enabled, clips being dragged will gently snap to the start and end times of other clips on the timeline. This makes it much easier to line clips up precisely.
Snap to grid	Enable/disable snap to grid feature.
Grid spacing	Enter the desire grid spacing. If the time display format is SMPTE, this field shows frames. Otherwise it shows seconds.

Timeline Playback Options

Timeline Options	×
Timeline Playback Audio Lamps	External Control Security
 Play in a loop Name in Cuelist: TestVideo1 Playback scrolling Scroll timeline after playback Do not scroll timeline Post-playback cursor action Return to last start position Return to playrange start Remain at stop position 	Play tracks ✓ Audio ✓ Video ✓ Lamp ✓ Event Scrub tracks (shift-key) ✓ Audio ✓ Video ✓ Lamp
ОК	Cancel Help

Play in a loop Play timeline in a loop.

Name in Cue list This is what will be displayed in the *Cue* column when the timeline is run in the <u>Cue List</u>.

Play TracksCheck which track types you wish to be active during playback.
Normally these should all be enabled, but it is occasionally desired to
disable all tracks of a particular type at once.

Scrub Tracks	Check which track types for which timeline scrubbing is enabled. Scrub a timeline by moving the timeline cursor while holding the SHIFT key down.	
Playback scrolling	 Select how the timeline will scroll during playback: Scroll timeline after playback. Timeline remains fixed and time cursor moves left to right during playback. When playback stops, timeline is shifted to include where the time cursor stopped. Do not scroll timeline. Timeline remains fixed and time cursor moves left to right during playback. When playback stops, timeline does not shift. 	
Post-playback cursor action	 Select time cursor behavior following playback: <i>Return to last start position</i>: Time cursor returns to the position it was at when playback was last started. <i>Return to playrange start</i>: Returns the cursor to the beginning of the play range. <i>Remain at stop position</i>: Time cursor remains at stopping point after playback. 	

Timeline Audio Options

Timeline Options	×		
Timeline Playback Audio Lamps External Control Notes			
Volume level scaling:			
Show audio level graph			
OK Cancel Help			

Volume level scaling	Move the slider to set the main volume level for the timeline (0% - 100%).
Show audio level graph	When checked, the audio level bar graph at the bottom of the timeline is shown. Uncheck to hide it. Hiding it can improve timeline execution

speed and performance.

Timeline Lamp Options

Timeline Options			
Timeline Playback Audio Lamps External Control Synching Security			
Lamp level scaling:			
Tum-off lamps after playback			
Ease-in on playback/stop			
Ease-in time (secs): 5			
OK Cancel Help			

Lamp level scaling	Set the lamp brightness level scaling for the timeline (0% - 100%).	
Turn off lamps after playback	When checked, all timeline lamps are set to level zero at the end of playback. Unchecked, lamps remain at last level when playback ends. Note: only Dimmer and RGB channels are affected by this feature. All other channel types will remain unchanged (see <u>Fixture Channel Types</u>).	
Ease-in on playback/stop (Available in VenueMagic SC+ and above only)	Check this option to force an "ease-in" period when a playlist is run or stopped. Rather than causing channels levels to jump immediately to the start level of the timeline, it will gradually blend from its current levels to the start levels over a specified period.	
Ease-in time (secs) (Available in VenueMagic SC+ and above only)	Specify the ease-in period in seconds.	

Timeline External Control Options

This dialog window lets you configure a timeline's <u>playback controls</u> to be controlled externally (i.e. MIDI device or <u>VCS</u>).

Timeline Options		
Timeline Playback Audio Lamps	External Control	Notes
✓ Trigger Play on external source MIDI_01_NTOF_008	Thresh Select 50	nold %:
✓ Trigger Stop on external source MIDI_16_CTRL_094	Thresh Select 50	nold %:
✓ Trigger Rewind on external source MIDI_12_NTON_094	Threshold %:	
ОК	Cancel	Help

Trigger Play on
external sourceCheck this box to enable external control of the timeline's Play button.
Click on the adjacent Select... button and choose an input source in the
Select External Control window. Since external controls input
percentage values, enter into the Threshold field the level the external
input will have to send in order to trigger the button. See Understanding
Threshold Values.

Trigger Stop on external source	Identical in operation to the <i>Trigger Play on external source</i> feature.
Trigger Rewind on external source	Identical in operation to the <i>Trigger Play on external source</i> feature. Rewind will only trigger when the timeline is not in playback mode, and will move the time cursor to the beginning of the timeline.
Trigger Rewind on external source	Identical in operation to the <i>Trigger Play on external source</i> feature. Rewind will only trigger when the timeline is not in playback mode, and will move the time cursor to the beginning of the timeline.

Timeline Security Options

(Only Available for VenueMagic Classic and above)

Timeline Options	×
Playback Audio Lamps External Control Security	Notes • •
Require password to save changes	
Enter password:	
Verify password:	
OK Cancel	Halp
UK Cancel	Help

You can require that a password if someone desires to alter and then save this file. Check the *Require password to save changes* box to require a password, then enter and re-enter the password in the fields below.

If anyone attempts to save this timeline, or to select the *Security* tab in the *Timeline Options*, a window will appear requiring the user to enter a password to save the file or enable the *Security* tab.

Timeline Synching Options

(Only Available for VenueMagic DMX+AV and above. Specified features available only in VenueMagic SC+ and above)

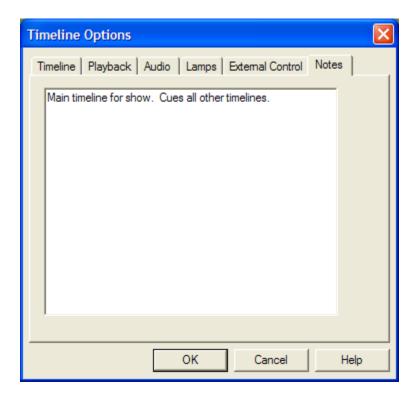
This window sets up VenueMagic to sync to various external sync sources. For more information see <u>Synching VenueMagic Timelines to an External Clock Source</u>.

Timeline Options			×
Timeline Playback Audio Lan Sync source O Main clock/Master sync training O Other MIDI LTC		Synching	Security 🗸 🕨
Stop at end of play range Drop-out action Continue on main clock Continue at last speed Hold	Setup Broadcast VM Channel: 1 Port: 552		
	ОК	Cancel	Help

Sync Source	 Select the source of VenueMagic synching. Main clock/Master sync track: Select this option to instruct VenueMagic to sync to its main clock or to the master sync track if one is selected. (see Master Sync Audio Track). Other: Select from the list of available sync source types and click Setup to open the setup window for the selected type (see Synching VenueMagic Timelines to an External Clock Source).
Stop and end of play range	Check this box if you would like the timeline to stop at the end of the play range. If left unchecked, timeline will wait for sync source to return the time to within the play range and run the timeline starting at that time.
Drop-out action	 Select how VenueMagic should handle timeline playback If I sync source were to drop out while the timeline is playing: Continue on main clock. Timeline continues to playback in real-time based on the main timeline clock. Continue at last speed: Timeline will continue to play back, but at the last speed before the dropout. Hold: Playback holds and waits for the source time to continue or to jump to another time.
Broadcast VMNet sync	Check this box and this timeline will broadcast <u>VMNet</u> <u>time code</u> over the channel designated in the <i>Channel</i> field. Any running timeline setup to use VMNet sync on this channel will be controlled by this timeline. The Port field should contain the <i>IP port number</i> used by the VMNet server on the computer running the timeline to be synched (see <u>VMNet Server</u> and <u>VMNet Server</u> <u>Settings</u>).

Timeline Notes

This window let's you add notes about your timeline.



Audio Tracks

Audio tracks contain audio clips that have been dragged over from the <u>Project Window</u>. An audio track can either be a normal audio tracks and <u>master sync</u> audio track. VenueMagic Classic and DMX+AV will allow as many audio tracks as you like. VenueMagic Express limits you to one audio track.

Normal Audio Track:

ALA AUDIO TRACK 1	Thunder 02.wav	 Fireworks.wav
	Manager and Andreas and Andr	and the second have been been a second se
	and a second sec	
 ↓	and an and a second second	

Master Sync Audio Track

	Castle Monologue.mp3
Master Sync Track	مى يى يى يەر مەكىرىكى ئەر ئىلىغانىدىكى يەر ئىلىغانىكى يەر ئىلىغانىدىكى يەر ئىلغاندىكى يەر بەر ئىلغاندىكى
<u>⊨</u>] <u>} (× ∓</u>	

Master Sync Audio Track

A master sync audio track is identical in every way to a normal audio track with one exception: During playback, the main timeline clock will synchronize itself to any audio file that may be playing on the track. This will ensure all lamp effects, events, etc... will remain in synched the audio on the master sync track. Only one at a track can be a master sync track. Enable this function for any audio track in the Audio Track General Properties window.

A master sync track is identified by a different background color and the phrase "Master Sync Track" located in the track panel under the track name.

Audio Track Panel

The Audio Track panel affects playback and editing of the audio track.

AUDIO TRACK 1 Pin track to page Disable audio playback Solo play Lock track		
L	Track main volume	
Pin track to page	Click this icon to pin this track to its current location on the page. As you scroll the tracks up and down, this track will remain fixed.	
Disable audio playback	Click this icon to mute the audio played by this track.	
Solo play	When enabled, only this audio track will be active during playback. No other audio track will play.	
Lock track	Lock track to changes.	
Track main volume	Adjust the volume of audio played on this track.	



Double-click on the kick icon or the audio track name to bring-up the Audio Track Properties window.

Audio Track Properties
General Audio Envelopes External Control Notes
Track name: Music
Master sync track
OK Cancel Help

Audio Track General Properties

Track name	Enter the track name to be displayed in the track panel.
Master sync track	Check this box to make the audio track a <i>master sync</i> audio track.
Lock track	Check this box to lock out any changes to track

Audio Track Audio Properties

Audio Trac	k Prop	erties				×
General	Audio	Envelopes	External	Control	Notes	Ì
Select Primar I Mu I En I En I F I F	audio o ny Sound ute track	utput: I Driver		Control	Notes	
			ОК	Car	ncel	Help

Select audio output	Available in DMX+AV and above only. Select an audio output device from a list of those currently installed on your computer. All audio clips playing in this track will output it sound to the selected device. This setting default to the audio output device selected in the Audio tab of the Setup Devices window.
Mute track	Mutes track during playback. Functions identically to the mute button on the track panel.
Enable track clip sound fx's	Enables sound effects for clips on track. The list below allow the enabling/disabling of individual sound effects for the track. By default, all of these are checked.

Audio Track Envelope Properties

Audio Track Properties	×			
General Audio Envelopes External Control Notes				
Show Envelopes (max=10):				
✓ Pan ✓ Volume				
Volume				
, Set Color				
OK Cancel Help				

Select which envelopes in the track are to be shown in the track. It the number selected exceeds the maximum specified in the <u>Timeline Options</u> window, other envelopes will be deselected, starting with the least recently selected envelope.

Click the Set Color button to set the color that the envelope will be displayed in the timeline and the <u>Envelope Editor</u> window.

Audio Track Properties	×
General Audio Envelopes External Control Notes	
 Control slider level with external device Allow mouse control of slider 	
External source: MIDI_01_NTOF_017	
OK Cancel Help	

Audio Track External Control Properties

Control slider level with external device	Enables the track panel's main volume slider to be controlled by an external source. Click the <i>Select…</i> button and choose an input source in the <u>Select External Control</u> window.
Allow mouse control of slider	When the main volume slider is being controlled by an external source, it my not make sense to allow the mouse to control it at the same time. Uncheck this box to lock-out the mouse from controlling the slider.

Audio Track Notes

This window lets you enter notes about the audio track.

Audio Track Properties	×
General Audio Envelopes External Control Notes	
Audio Track Notes	
OK Cancel Help	

Audio Clip Properties

Audio Clip General Properties

Audio Clip Properties	×
General Audio Notes	
Clip name: MySong.mp3	
Path: C:\Documents and Settings\Owner\My Documents\	
·····]·······························	
Enable playback	
Lock clip	
OK Cancel Help	

Clip name Enter the name that will appear on the clip in the timeline window. By default, this is the name of the audio file associated with the clip.

Path Shows the complete path of the audio file (not editable).

Enable playback Check this box to enable playback of the clip. Uncheck it to mute the clip during playback. It is checked by default.Lock clip Check this box to lock the clip onto the timeline. Locked clips cannot be moved or resized.

Audio Clip Audio Properties

Audio Clip Properties	×
General Audio Notes	
Volume gain: 100%	
Pan center: 50% 50%	
Left Right	
Enable sound fx Setup Sound FX	
Enable crossfade-back Setup CFB	
OK Cancel Help	

Volume Gain	Adjusts the overall volume level of the clip during playback. Use this to scale the effect of the volume envelope.
Pan Center	Shifts the stereo pan center of the clip during playback.
Enable sound fx	Check this box to enable sound effects processing for the clip. Then click the <i>Setup Sound FX</i> button to configure effects. (see <u>Audio Clip</u> <u>Sound Effects</u>).
Enable crossfade- back	Check this box to enable cross fade-back for the clip. Then click the <i>Setup CFB</i> button to configure cross fade-back. (see <u>Cross Fade-back</u>).

Audio Clip Sound Effects

VenueMagic provides five DirectX audio effects. Each audio effect has parameters that can be configured by effect sliders or by using envelopes during playback.

Sound Effects Settings		
Sound FX	Settings	
Enable Select	Wet/Dry Mix (%) 50	Use Envelope
🔽 🔍 Echo	Feedback (%) 50	Use Envelope
C Reverb	Left Delay (%) 50	Use Envelope
C Chorus	Right Delay (%) 50	Use Envelope
Gargle		
Volume:		OK Cancel

The Sound Effects Settings dialog is divided into two panes: *Sound FX* and *Settings*. In the *Sound FX* pane *Enable* column, check the corresponding box for the desire sound effects to turn them on. In the *Select* column, select the effects you would like to adjust. The settings for that effect will appear in the *Settings* pane.

Checking Use Envelope for any setting will enable <u>envelope</u> control of the setting.

In the Settings pane, drag the slider of the desired effect parameter to change it. Each parameter is a percentage value (0-100). The best way to learn these parameters is to experiment. Click

to play the sound file once, or related to play it in a continuous loop. During playback you can vary parameters but you cannot enable/disable effects.

Cross Fade-back

(Only Available for VenueMagic Classic and above)

Cross Fade-back Overview

Use Cross-Fade-back to extend the length of certain sound clips.

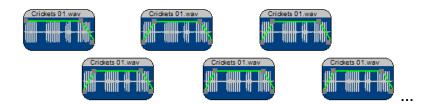
For example: Suppose your show needed 10 minutes of background night noises (crickets, etc...). Unfortunately, your favorite night noise sound clip is only 20 seconds long. A couple solutions to your problem come to mind:

1. Make 30 copies of the sound clip and line them up on your track like this:



Unfortunately, your crickets will "hiccup" every 10 seconds, which is very distracting.

2. You could stagger the clips across two tracks and cross-fade between the clips using <u>envelopes</u> like this:

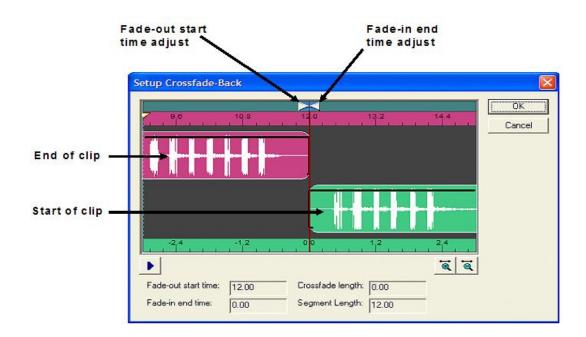


Clearly this method takes a lot of time and is cumbersome.

Cross fade-back offers a far better solution. With cross fade-back, the sound clip actually crossfades back onto itself, providing smooth transitions. It can also be setup in seconds.

Cross Fade-back Setup

Double click on your clip on the timeline to bring up the <u>audio clip properties</u> dialog box and select the **Audio** tab. Check the **Enable cross fade-back** box, then click on **Setup CFB**. This will bring-up the **Setup Cross Fade-back** dialog box.



Notice that two clips are displayed: one on the top, one on the bottom. These actually represent the beginning and end of the same clip. The two timescales show time relative to their respective clips.

Click on and slide one of the clips towards the other. Notice how they both move together. This is how we overlap the clips.

Next, click and slide the **Fade-out start time adjust** arrow. You will see the number **Fade-out start time field** change. This tells cross fade-back function where to start fading-out before the end of the clip. Likewise, you can adjust **Fade-in end time adjust** arrow to setup where the fade-in to the clips beginning will end.

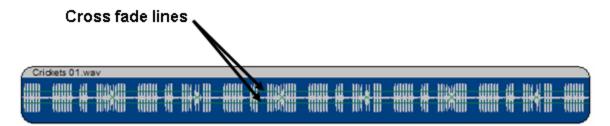
Cross fade bar	
\mathbf{X}	
Setup Crossfade-Back	X
	ок
	Cancel
Fade-out start time: 10.28 Crossfade length: 1.23	
Fade-in end time: 1.33 Segment Length: 10.18	

As you slide the time adjust arrows, you will also see the number in the **Cross fade length** field change. This is the actual period of time (in seconds) that the cross fade-back will occur over. Once you are happy with the cross fade length, you move the start and end times together by clicking and sliding the **Cross fade bar**.

Test the cross fade-back by cli	cking on the play 上 button.	You can also change the scale of
the display area using the	and 🔍 buttons.	

Setting up cross fade-back may seem a little tricky at first. Play with it a little and you will get good at it in no time.

Now close the **Setup Cross Fade-back** and the <u>audio clip properties</u> dialog box. Then resize the length of you clip. Notice how you can make it any length now. You will also see that cross fade lines have been added to show where cross fade-back will take place.



Audio Clip Notes

Enter notes about the audio clip.

Audio Clip Properties	×
General Audio Notes	
Audio Clip Notes	
OK Cancel	Help

Exporting Audio Clip Profiles

(VenueMagic SC+ and above only)

VenueMagic will let you extract a rough audio envelope to a profile file that can later be loaded into a <u>Level Control</u> lamp effect. The overall effect is similar to the <u>Audio Link</u> lamp effect, but you have the added flexibility of being able to edit the audio profile in the <u>Envelope Editor</u> (see also <u>Exporting Channel Data Profiles</u>).

To export a profile, right-click on an audio clip in an audio track and select *Export Audio Profile*. This will bring-up a file browser in which you can enter an filename for the exported profile.

Video Tracks

(Only Available for VenueMagic DMX+SA and above)

Video tracks contain video clips that have been dragged over from the <u>Project Window</u>. VenueMagic provides a single video track that can contain as many video clips as desired. A video track can either be a normal video tracks and <u>master sync</u> video track.



VIDEO TRACK 3	VM Demo Ver 01 (non-stretched)

Master Sync Video Track



Video Track Panel

(Only Available for VenueMagic Classic and above) The Audio Track panel affects playback and editing of the audio track.

	<u>АСК 6</u>
† †	Pin track to page
	Disable video and audio playback
	Solo play (audio and video tracks only)
	Lock track
	Track main volume
Pin track to page	Click this icon to pin this track to its current location on the page. As you scroll the tracks up and down, this track will remain fixed.
Disable video and audio playback	Click this icon to disable playback of audio and video playback on this track.
Solo play	When enabled, only this video track will be active during playback. No other audio or video track will play.
Lock track	Lock track to changes.
Track main volume	Adjust the volume of videos played on this track.
F	4

Double-click on the Lorent icon or the video track name to bring-up the Video Track Properties window.

Video Track Properties	×
General Playback Envelopes External Control Notes	
Track name: Video Track 3	
Master and track	
Master sync track	
Lock track	
OK Cancel Help	

Video Track General Properties

Track name Enter the track name to be displayed in the track panel.

Master sync trackCheck this box to make the video track a master sync video track (see
Master Sync Audio Track).

Lock track Check this box to lock out any changes to track

Video Track Playback Properties

Video Tra	ck Propert	ies			×
General	Playback	Envelopes	External Control	Notes	
Pla Aut	y video y audio o-open video ow fullscreen monitor for fu				
Monit			Description		(
DISPLAY Primary Display Driver					
OK Cancel Help					

Play video Check this box to enable playback of videos in the Video Playback window. Play audio Enables playback of audio portion of video clips. Auto-open video When checked, the Video Playback window automatically opens up screen when the timeline is played. Show fullscreen Check this box to force video all track video clips to playback in fullscreen mode. Select monitor for This list shows all monitors you computer makes available for display. fullscreen Check the monitor you wish the to be displayed by clips playing in this track. If a selected monitor is unavailable during playback, the video will default to playback in the primary monitor.

Playing Video on a Second Monitor

VenueMagic will play full screen video on a second monitor. To do this, follow these steps:

- 1. Make sure the second monitor is hooked-up and working properly as part of your desktop.
- 2. Check Auto-open video screen and Show fullscreen above.
- 3. Select the secondary monitor in the Select monitor for fullscreen list.

When the timeline is run, VenueMagic will take over the secondary monitor and display videos in the video track.

Video Track Envelope Properties

Video Track Proper	ies			×
General Playback	Envelopes Exte	mal Control No	tes	
Show Envelopes (n	ax=10):			
Pan				i
Volume				
,			Set Color	1
	ОК	Cancel	Help	

Select which envelopes are to be shown in the track. It the number selected exceeds the maximum specified in the <u>Timeline Options</u> window, other envelopes will be deselected, starting with the least recently selected envelope.

Click the Set Color button to set the color that the envelope will be displayed in the timeline and the <u>Envelope Editor</u> window.

Video Track External Control Properties

Video Track Properties	×
General Playback Envelopes External Control Notes	
Control slider level with external device Allow mouse control of slider	
External source:	
MIDI_04_CTRL_008 Select	
OK Cancel Help	

Control slider level with external device	Enables the track panel's main volume slider to be controlled by an external source. Click the <i>Select…</i> button and choose an input source in the <u>Select External Control</u> window.
Allow mouse control of slider	When the main volume slider is being controlled by an external source, it my not make sense to allow the mouse to control it at the same time. Uncheck this box to lock-out the mouse from controlling the slider.

Video Track Notes

This window lets you enter notes about the video track.

Vide	eo Tra	ck Propert	ies			×
G	eneral	Playback	Envelopes	External Control	Notes	
		Track Notes				
			ОК	Cance		Help

Video Clip Properties

Video Clip General Properties

Video Clip Properties	×
General Video Audio Notes	
Clip name: VM Demo Ver 01	
Path: C:\Users\Admin\Documents\Videos\VM Demo Ve	r (
Enable playback	
Lock clip	
OK Cancel He	lp

Clip name Enter the name that will appear on the clip in the timeline window. By

	default, this is the name of the video file associated with the clip.
Path	Shows the complete path of the video file (not editable).
Enable playback	Check this box to enable playback of the clip. Uncheck it to disable video and audio playback of the clip. It is checked by default.
Lock clip	Check this box to lock the clip onto the timeline. Locked clips cannot be moved or resized.

Video Clip Video Properties

Video Clip Properties	×
General Video Audio Notes	
Play video	
✓ Play audio	
Scale video to fit screen	
OK Cancel Help	

 Play video
 Check this box to enable playback of the clip in the Video Playback window.

Play audio Enables playback of audio portion of video clip.

Scale video to fit screen If checked, the video clip will fill the entire Video Playback window, event if it has to be stretched in the horizontal or vertical direction. When unchecked, the video image maintains the proper aspect ration. In this mode, it is possible for the video to play in a "letterbox" format, with black bars on the top and bottom of the window.

١	/ideo Clip Properties	x
	General Video Audio Notes	
	Volume gain: 100%	
	Pan center: 50% 50%	
	Left Right	
	OK Cancel Help	

Video Clip Audio Properties

Volume GainAdjusts the overall volume level of the clip during playback. Use this to
scale the effect of the volume envelope.

Pan Center Shifts the stereo pan center of the clip during playback.

Video Clip Notes Properties

Enter notes for the video clip.

Video Clip Properties	×
General Video Audio Notes	
Video Clip Notes	
OK Cancel Help	

Video Playback Window

The Video *Playback window* facilitates the playback of videos. Show the window by selecting *View* \rightarrow *Video Playback Window* in the main menu.



Size the window by clicking and dragging the windows edges. Make if full screen in the current monitor by right-clicking in the video area and selecting *Full screen*. Do the same to restore it to

normal size. This window can also be opened and made full screen automatically through settings in the <u>Video Track Playback Properties</u> window.

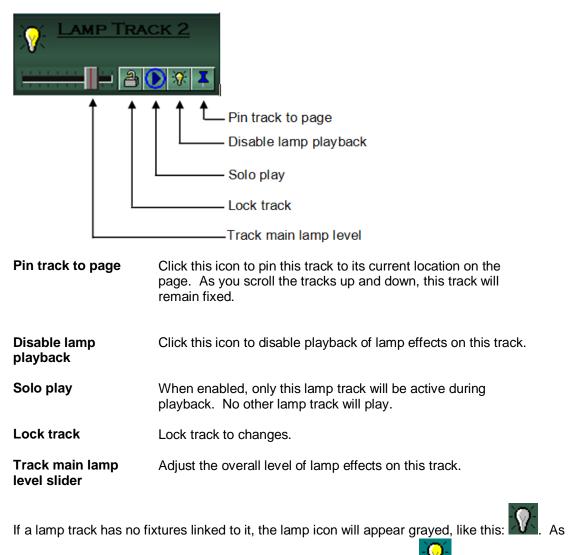
Lamp Tracks

Lamp tracks contain lamp effects dragged over from the Lamp Effects folder of the Project Window.



Lamp Track Panel

The figure below shows the function of each item in the lamp track panel.



soon as a fixture is added to the track, it will assume its yellow color: 🔁

Double-click on the V icon to bring-up the Lamp Track Properties window.

Lamp Track General Properties

Lamp Track Properties	×
General Channels Envelopes External Control Notes	
Track name: All Minis	
OK Cancel Help	

Track NameEnter the track name to be displayed in the track panel.

Lock track Check box to lock-out track to changes.

Lamp Track Channel Properties

Lamp Track Properties
General Channels Envelopes External Control Notes
Channels Accu_Spot_Pro.Rotating Gobo Accu_Spot_Pro.Rotating Gobo Accu_Spot_Pro.Shutter and Str Accu_Spot_Pro.Internal Program Accu_Spot_Pro.Internal Program Accu_Spot_150 Actu_Spot_150 Actu_Spot_150 Coups Settings Select Channels Replace Replace Replace Replace Replace Replace Replace
OK Cancel Help

The channel tree shows which channels are currently linked to the lamp track. It has includes three folders:

- **Channels**: Contains channels that were added to the track independent of their fixtures. Also referred to as "orphaned" channels.
- *Fixtures*: Contains <u>fixtures</u> linked to the lamp track.
- **Groups**: Contains groups linked to the lamp track.

A single channel, fixture or group can be added to as many tracks as you like. However it can be added to a specific track only once. Furthermore groups in the Group folder cannot contain fixtures also found in the Fixture folder, nor can the Fixture folder contain channels already in the Channels folder. Put simply: *There can be no duplicate channels within the same track.* Fortunately, VenueMagic keeps track of all that for you so you don't have to worry about it. VenueMagic prevents you from breaking the rules.

To select/remove channels, fixtures and groups to be included in the track, click on the *Select Channels…* button to bring up the <u>Select Channels</u> window.

Click the Settings... button to show the Lamp Track Channel Settings window.

You can also add channels, fixtures and groups to a lamp track by dragging them over from the *Fixtures* and *Channel Groups* folders in the <u>Project Window</u>.

Lamp Track Channel Settings

Lamp Track Channel Settings	×
Starting level source	ОК
 Fixed value 	Cancel
Current level at timeline start	
Start level of first lamp effect	
Start level (%): 0 Merge mode: Default	•

Starting level source Specifies the initial level of a channel in the track when the timeline starts playback from the beginning.

- *Fixed value*: Channel starts with the level specified in the Start level (%) field.
- **Current level at timeline start**. Whatever level the lamp is currently at when the timeline begins playback is where it will start. This is useful when you want one timeline to continue where another left off.
- **Start level of first lamp effect**: Allows you to set the initial lamp level for the channel in the track using a <u>Level Control</u> lamp effect.

	Level Control
Initial lamp level for this channel	

set by sliding envelope handle.

Start level (%) Set the starting level for the channel within the track. Available only when *Fixed value* option is selected.

Merge mode The merge mode setting lets you select how the channel will be affected by *this* track only (see <u>Fixture Channel Merge Modes</u>). For instance, if *Scale* is selected, then lamp level commands for this channel coming from this track will be merged as Scale, rather than the channel default. When set to *Default*, the default channel merge mode is used. (see <u>Edit Fixture Settings</u>).

Replacing Lamp Track Channels & Fixtures

(Only Available for VenueMagic Classic and above)

VenueMagic will let you replace a channel or fixture that has been added track with a fixture or channel that is not part of the track. Select the fixture or channel that you would like to replace and click the *Replace* button. This will bring-up the *Select Item Replacement* wizard.

Replacing Track Channels

×
st in
•
•

If a *channel* was selected to be replaced, then the *Select Item Replacement* wizard will appear as above. In the list on the left is the channel you selected to replace. On the right is a list of all of the channels that are not currently part of the track. Simply check the channel in the list on the right that will replace the selected channel and click *Finish*.

You will immediately see the message:

VenueMa	gic 2.1		X
Channel replacements will not take effect until after the Lamp Track Properties window is closed. Close window now?			
	Yes	<u>N</u> o	Cancel

Click Yes to close the *Lamp Track Channel Properties* window and activate the replacement. Or click *No* to activate the changes later when you close the window. The important thing to remember is that the changes will not be reflected in the *Lamp Track Channel Properties* window until after it has been closed. It is always recommend that you click Yes to this message.

Replacing Track Fixtures

Select Item Replacements	×
 This list shows the track fixture you selected to replace. Check the fixture(s) to replace it with in the list on the right. 	 This list shows project fixtures that can replace the track fixture to the left. This list only shows fixtures currently not included in the track
Auto_Spot_150	Accu_Scan_250 COLORbank_LED_Generic COLORbank_LED_RGB COLORbank_LED_RGB_1 COLORbank_LED_RGB_2
< Back Next >	Finish Cancel Help

If a track *fixture* was selected to be replaced, then the *Select Item Replacement* wizard appears as above with the selected fixture on the left, and a list of available fixtures (not currently attached to this track) on the right. Check the fixture in the list on the right that you wish to replace your

selected fixture with and click *Next*. VenueMagic will also allow you to select multiple fixtures to replace a single fixture, effecting splitting the fixture up.

After clicking next, the Selecting Channel Replacements window comes up.

Selecting Track Channel Replacements

Select Channel Replacements	×
1. The list to the right shows all of the fixture replacements you selected on the previous page. Select a replacement to show a list of fixture channel replacements in the list below.	Fixture: To be replaced by: [Auto_Spot_150 Accu_Scan_250
the best it can to recommend the	Innels within the fixture will be replaced. VenueMagic has done e best channel replacements. You can make changes to this by esired order. Click "Finish" when you're done. To be replaced by: Accu. Scan_250.Position
Auto_Spot_150.Costion Auto_Spot_150.Gobo Auto_Spot_150.Gobo Rotation Auto_Spot_150.Full Color Auto_Spot_150.Shutter Unassigned channels:	Accu_Scan_250.Gobo
< <u>B</u> ack	Next > Finish Cancel Help

The Select Channel Replacements window shows two lists. List 1 (on the top) shows the selected fixture on the left side and the fixture chosen to replace that fixture (in the Select Item Replacement window) on the right. If multiple fixtures had been chosen as replacements, then there would be a list item for every replacement.

Click on the replacement item in List 1, and you will notice that List 2 (on the bottom) is filled with suggested channel replacements across the two fixtures. If you don't like VenueMagic's suggestions, you can select and drag items on the right side to lined them up with the desired replacements on the right. Unused channels on the right are placed below the assigned channels in the section labeled *Unassigned channels*.

VenueMagic color codes the items in the list as follows:

Green	Mapping is across identical channel types. For example, a channel of type <i>dimmer</i> is mapped to another channel of type <i>dimmer</i> .
Yellow	The mapping is across different, but technically compatible channels. An example of this would be mapping a dimmer channel to a gobo wheel channel.
Red	Mapping is illegal. This occurs when you attempt to map a compound channel (such as RGB) to a channel that is not same type (such as position).

When you have finished arranging channel replacements to you liking, click Finish.

You will see the message:



Click Yes to close the *Lamp Track Channel Properties* window and activate the replacement. Or click *No* to activate the changes later when you close the window. The important thing to remember is that the changes will not be reflected in the *Lamp Track Channel Properties* window until after it has been closed. It is always recommend that you click *Yes* to this message.

Lamp Track Properties	×
General Channels Envelopes External Control Notes	
Show Envelopes (max=10):	
B2Dim6.F2PurpleMini	
B4Dim9.F3PurpleMini	
CDim1.C1Open	
CDim2.F1PurpleMini	
T2Dim10.T1All	
T2Dim10.T2Bottom	
✓ T2Dim10.T2Middle	
T2Dim10.T2Top	
T3Dim11.T3Bottom	
▼ T3Dim11.T3Middle	
Draw lamp level lines between clips Set Color	
OK Cancel Help	

Lamp Track Envelope Properties

Select which envelopes in the track are to be shown in the track. It the number selected exceeds the maximum specified in the <u>Timeline Options</u> window, other envelopes will be deselected, starting with the least recently selected envelope.

If you don't want lamp level lines to be drawn between clips, uncheck the *Draw lamp levels* between clips box.

Click the Set Color button to set the color that the envelope will be displayed in the timeline and the Envelope Editor window.

Lamp Track Properties
General Channels Envelopes External Control Notes
Control slider level with external device
Allow mouse control of slider
External source:
MIDI_01_NTOF_016 Select
OK Cancel Help

Lamp Track External Control Properties

Control slider level
with external deviceEnables the track panel's main lamp level control slider to be
controlled by an external source. Click the Select... button and
choose an input source in the Select External Control window.Allow mouse control
of sliderWhen the main lamp level slider is being controlled by an external
source, it my not make sense to allow the mouse to control it at the
same time. Uncheck this box to lock-out the mouse from controlling
the slider.

Lamp Track Notes

Enter notes about the lamp track.

Lamp Track Properties	×
General Channels Envelopes External Control Notes	
Controls tombstone lamps.	
OK Cancel Hel	p

Level Control

A Level Control lamp effect gives you full control of channel levels in a track by utilizing the <u>Envelope Editor</u> to edit channel level profiles.

Level Control Properties	×
General Setup Recording Notes	
Name: Level Control	- 11
Enable playback	
Lock clip	
Scale envelopes on resize	
OK Cancel H	elp

Level Control General Properties

Name	Enter the name that will appear on the clip in the timeline window. By default, this will always be "Level Control".
Enable playback	Check this box to enable playback of the clip. Uncheck it to disable lamp control by this clip during timeline playback. It is checked by default.
Lock clip	Check this box to lock the clip onto the timeline. Locked clips cannot be moved or resized.
Scale envelopes on resize	Check this box and envelope handles will be scaled horizontally when the Level Control clip is resized.

Level Control Setup Recording Properties

(Only Available for VenueMagic DMX+AV and above)

This window allows you to setup channels for real-time recording of DMX, MIDI and Joystick control.

Level Control Properties			×
General Setup Recording	Record Triggering	Notes	
Enable recording	Select rec	ordable channels:	
Erase before recording	RGB.F	RGB.Blue	1
		RGB.Green	
	RGB.F	RGB.Red	
Select channels to record:	ŀ		
Channels		Control Input	
RGB.RGB.Blue		JS_1_XPOS	
RGB.RGB.Green		JS_1_YPOS	
Import Profile Mat	ch Inputs From Cha	nnel Routing Select Input]
	ОК	Cancel Help	

By default, all of the channels associated with a Level Control lamp effect are controlled by envelopes that are designed by the user in the timeline or in the <u>Envelope Editor</u>. Setting –up selected channels to be "recordable" will enable you perform real-time recording of those levels during timeline playback.

Selecting Channels to Record

The Select recordable channels list shows all of the output channels available to this Level Control effect. Check the box on those that you wish to record. Checked items will appear in the Select channels to record list. In this list, check those channels you wish to record during timeline playback. Unchecked channels will not be recorded, but will playback their pre-recorded data (if any) when the timeline is run.

Selecting Inputs to Control Recorded Channels

Perhaps a little clarification is needed at this point. The channels you have selected for recording are actually *output* channels, not *input* channels. In the end, what we really need to record are the *input* channels that are *controlling* the *output* channels. In order to do this, we must specify which external input channel is controlling a "recordable" output channel while it is being recorded. Select an output channel in the *Select channels to record list* and click on the *Select Input* button. This brings up the <u>Select External Control</u> window from which you can select an input channel to control selected output channel. While the timeline is recording, this will function similarly to the <u>Channel Router</u> in that the each output channel will be controlled directly by the associated input channel.

Copying Inputs from Channel Routing

If you have already setup the Channel Router and would like to use the same inputs for recording, click on *Match Inputs From Channel Routing*. This will reassign all of the recording channels to match the inputs currently setup in the channel router. If a record channel is not referenced in the Channel Router, it is left alone. Note: in Channel Routing, multiple inputs can affect a single output channel. Recording does not allow this. If multiple inputs are found for the record channel, you will be prompted to select the desired one from a list.

Importing Profiles into Level Control Channels

Import previously exported <u>profiles</u> into channels by selecting the channels to be imported to in the *Select channels to record* list, and then clicking *Import Profile*. Select the profile file and click OK to bring-up the <u>Load Profile Channels</u> window which will have populated the *record channel* list with the channels selected in the *Select channels to record* list.

Recording Channels

Check the *Enable recording* box to enable recording for this clip. When you close the Level Control Properties window, you will find that the Level Control clip title bar has changed colors (to red) and the clip title now includes "(Record ENABLED)".



You can also enable recording by right clicking on the clip and selecting Record Channels. Or you

can click on the **set in the** timeline toolbar. This will enable recording for all selected Level Control Clips, as long as recording has been setup for each of them.

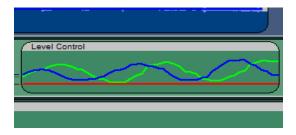
When you run the timeline, the title text changes to include "(Record WAITING)".



As soon as recording is triggered (see <u>Level Control Record Triggering Properties</u>), the clip's appearance changes to:



Now run the timeline. Recording of the selected channels will begin when the timeline time cursor reaches the clip. When timeline playback stops, the new recorded data appears in the clip.



Record Lock

When the timeline stops after a recording, the clip is automatically taken out of record mode. This is done to prevent accidentally recording over data. If you want clips to remain in record mode

after the timeline stops, can click on the record lock button in the timeline toolbar.

For more information on real-time recording, see Real-time Recording and Editing of Channels.

Level Control Record Triggering Properties

Level Control Propertie	s X	1
General Setup Recordi	ng Record Triggering Notes	
Record START trigge	r	
C Timeline playback C Manual (Ctrl-R)	¢	
C First data change		
 Timeline marker 	Start-01-001	
C External Ctrl	None Select	
	Threshold %: 0	
Record STOP trigger		
C Manual (Ctrl-R)		
C Timeline marker		
External Ctrl	JS_1_BTN1 Select	
	Threshold %: 50	
]	
	OK Cancel Help	

Selecting a Record Trigger

Various options are available for triggering the start and stop of recording during playback.

Start Recording Triggers

Timeline playback Recording begins immediately when the timeline is run.

Manual (Ctrl-R)	Recording is toggled on/off (while timeline is running) using the Ctrl-R key combination. This functional is actually available in all modes.
<i>First data change</i> (auto punch-in)	Recording begins when the first input data is received. In other words, if you are controlling channels with several sliders, moving one of the sliders will start recording for the whole clip.
Timeline marker	Recording begins at the selected timeline marker. If you start playback after the specified marker, recording starts immediately. (see <u>Timeline</u> <u>Marker</u>)
External Ctrl	Select and external control to trigger start of record. (see <u>Selecting External</u> <u>Input Devices</u>).
Stop Recording Tri	nners

Stop Recording Triggers

Manual (Ctrl-R) Recording is toggled on/off (while timeline is running) using the Ctrl-R key combination. This functional is actually available in all modes.

Timeline marker Recording stops at the selected timeline marker. (see <u>Timeline Marker</u>)

External Ctrl Select and external control to trigger record stop. (see <u>Selecting External</u> <u>Input Devices</u>).

Level Control Notes Properties

Enter notes about the level control effect.

Level Control Properties			×
General Setup Recording	Notes		
Level Control Effect Notes			
	ОК	Cancel	Help

Snapshot Channels

(Only Available for VenueMagic Classic and above)

You can "snapshot" the **current output level** of all channels controlled by a Level Control lamp effect by right-clicking on the Level Control effect and selecting *Snapshot channels*. Or you can

click on the <u>limeline toolbar</u>. This function is available in both the <u>timeline</u> editor and the <u>envelope editor</u>.

This function is especially useful when you wish to set all of the lamp levels, head positions, etc... manually (you must setup <u>channel routing</u> to do this) and then capture the position for use in a timeline.

Snapshot Channel Levels				×
Select channels to snapshot:				(OK)
CDim2.TS4Front			-	Coursel
✓ TSDim3.TS1Lamp				Cancel
✓ TSDim3.TS4Lamp				
✓ TSDim4.TS2Lamp				
✓ TSDim4.TS3Lamp				
✓ TSDim5.TS5Lamp				
✓ TSDim5.TS6Lamp				
✓ TSSpots.TS1Front			-	
Copy to FIRST handle	Curve type:	Linear	•	
-				
Copy at time cursor				

The Snapshot Channel Levels box will list all of the channels controlled by the Level Control. Check those channels you wish to snapshot.

Check the *Copy to FIRST handle* box if you wish to copy the captured channel values to the <u>first</u> handle in the Level Control's envelope that corresponds to each channel. This option is available only to the first Level Control effect on the track. In addition to this, only channels with the <u>starting source level</u> set to *Start level of first lamp effect* will be copied. Uncheck this box if you do not want to copy any channel values to the first handles.

Check the *Copy to LAST handle* box if you wish to copy the captured channel values to the <u>first</u> handle in the Level Control's envelope that corresponds to each channel. This option is always available and will copy all channels controlled by the Level Control effect.

Check the *Copy at time cursor* box if you wish to insert new handles with the captured channel values at the current *time cursor* position. This option only available if the timeline time cursor is inside the Level Control effect.

The Curve type box lets you select the curve type that will be associated with the captured points. Select from *Step*, *Linear*, and *Spline* (see <u>Envelope Editor</u>).

Lamp Chaser

Lamp chasers are very powerful and exciting feature of VenueMagic. VenueMagic lets you select from a library of over 100 chaser sequences, or you can create your own with VenueMagic's easy-to-learn (can you spare 1-2 minutes?) chaser sequence development language in the Lamp Chaser Library.

Lamp Chaser General Properties

Lamp Chaser Properties	×
General Setup Channel Order External Control Notes	
Name: Lamp Chaser	
,	
✓ Enable playback	
Lock clip	
OK Cancel Help	

Name Enter the name that will appear on the clip in the timeline window. By default, this will always be "Lamp Chaser".
 Enable playback Check this box to enable playback of the chaser. Uncheck it to disable lamp control by this chaser during timeline playback. It is checked by default.
 Lock clip Check this box to lock the clip onto the timeline. Locked clips cannot be moved or resized.

Lamp Chaser Setup Properties

Lamp Chaser Properties	×
General Setup Channel Order External Control Notes	
Chaser program: Sample:	
Chaser4_13 (4 lamps, 2 beats)	
Chaser4_14 (4 hamps, 5 beats) Chaser4_15 (4 hamps, 7 beats) Chaser4_16 (4 hamps, 4 beats)	
Chaser4_10 (4 lamps, 4 beats)	
Chaser4_10 (4 lamps, 4 beats)	
Enable auto-beat sync 🔽 Advanced	
Show beat markers 🔽 Tap Env. Ext.	
Speed: 150 bpm [[]	
Brightness: 100.0 %	
OK Cancel Help	

Chaser program	 Select a chaser sequence program from VenueMagic's library of over 100 sequences. Parenthetically, to the right of the chaser program name, is additional information about the sequence: <i>N</i> lamps: where <i>N</i> is the number of lamps the sequence was designed to accommodate. If you have more lamps than specified, the sequence will repeat every <i>N</i> lamps. <i>N</i> beats: where <i>N</i> is the number of beats in this sequence. In other words, the sequence will repeat every N beats.
Sample	 An animated sample of the currently selected chaser sequence. The cell names consist of letter-number combinations that specify: <i>Letter</i> A, B, C, etc: lamp/beat within the sequence. <i>Number</i> 1, 2, 3, etc: repetition of sequence within the track channels.
Enable auto-beat sync	<i>(Only Available for VenueMagic Classic and above)</i> Enable the auto-beat sync feature for this lamp chaser. Checking this box is the first step to automatically synchronizing a lamp chaser to the beat of an audio file (see Lamp Chaser Auto Beat Synchronization).
Advanced… button	Opens the Advanced Auto-Sync Settings dialog window.
Show beat markers	Displays chaser sequence beat markers on the lamp chaser clip in the timeline. Even when enabled, beat markers will not show if the timeline display time range is too large. • Auto-beat sync enabled:

עארע	ההתיר	עעארי	אאאראר	יריריני	רעעי
AAAA	. 8 8 8 7	$(\land \land \land \land \land$	LAAAA.	A A A A	A A A I
	XXXX) (XXXX) (XXXX) (XXXX)	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	

Speed	Move the slider to set the chaser speed in beats per minute. You can also enter a BPM value manually in the adjacent field. Active only when Autobeat sync is not checked.
	 <i>Tap</i>: Check this box and the chaser will follow the beat tapped-into the <u>Beat Tapper</u>. All other speed settings are ignored. <i>Env</i>.: Checking this box will enable <u>envelope</u> control of the chaser speed. The envelope value (0-100%) will vary the chaser speed between 0 BPM and the value set in the speed field. <i>Ext</i>.: Check to enable external control of the speed. Behaves similarly to envelope control. Once enabled, external control must be setup in the <u>Lamp Chaser External Control Properties</u> window.
Brightness:	Functions similarly to the <i>Speed</i> setting, except brightness control is active regardless of whether Auto-beat sync is checked or not.

Lamp Chaser Channel Order Properties

amp Chaser Properties				
General Setup Channel Order Ext	emal Control	Notes	1	
Chaser Channels 04Channel.Level1 04Channel.Level2 04Channel.Level3 04Channel.Level4 02Channel.Level1 02Channel.Level2	A1 / / / / / / / / / / / / / / / / / / /	Excluded Channels A2078.Color1 A2078.Color2 A2078.Position.Pan A2078.Position.Tilt A2078.Effect A2078.Effect A2078.Prism_Rotation A2078.Shutter A2078.Shutter A2078.Gobo_Rotation A2078.Gobo1 A2078.Gobo1 A2078.Gobo1 A2078.Gobo		
Reorder by DMX Address				
[ОК	Cancel Help		

If your chaser lamps are flashing out of order, you can reorder them by dragging them around the *Chaser Channel* list. For explanation of the codes in the Sequence (Seq) column, see <u>Lamp</u> <u>Chaser Setup Properties</u>. If you don't want a channel included in the chaser sequence, drag it into the *Excluded Channels* list. When a lamp chaser is first added to a lamp track (or when more channels are added to the track) the chaser will automatically exclude all channels except dimmer

and RGB type channels (see <u>Fixture Channel Types</u>). If you actually wish to include these channel types, you will need to drag back into the *Chaser Channel* list yourself.

Click the Reorder by DMX Address button to reorder the channels in the lamp chaser by DMX address. This is useful if you have rearranged fixtures in the <u>Add Fixtures</u> window and would like to quickly rearrange the chaser's channel order. It is also useful if you need a quick way to reset channel ordering to the default.

Lamp Chaser External Control Properties

Lamp Chaser Properties	×
General Setup Channel Order External Control Notes	
Chaser Speed external source:	
MIDI_01_NTOF_014 Select	
Chaser Level external control source:	
MIDI_01_NTOF_041	
\	
OK Cancel Help	

Chaser Speed external	External control of lamp chaser Speed function. Click Select				
source:	button to open <u>Select External Control</u> dialog window. External control will scale the chaser speed between 0 bpm and the speed set in the <u>Lamp Chaser Setup Properties</u> window. External control of the speed must be also enabled in the same window.				
Chaser Level external source:	Selects external control of chaser lamp level. Functions similarly to Chaser Speed external source above.				

Lamp Chaser Notes

Enter notes about the lamp chaser.

Lamp Chaser Properties	K
General Setup Channel Order External Control Notes	
Lamp Chaser Notes	
OK Cancel Help	

Lamp Chaser Auto Beat Synchronization

(Only Available for VenueMagic DMX+AV and above)

A powerful feature of lamp chasers is the ability to automatically synchronize to the beat of music in an audio file. This can be done by following these steps:

- Select an audio file from the Audio folder in the <u>Project Window</u> and drag it into an <u>audio</u> <u>track</u> on the timeline. It is important the music you select has a clearly distinguishable beat.
- 2. Drag the Lamp Chaser from the Lamp Effects folder in the Project Window into a lamp track.
- 3. Double-click on the lamp chaser clip on the timeline to bring-up the *Lamp Chaser Properties* window and select the <u>Setup</u> tab.
- 4. Select a desired chaser program and then check the *Enable auto-beat sync* box. Now click OK. The chaser clip should now look something like this:



Note the word "Unsynched" in the chaser clip title bar. This tells you that auto-beat sync is enabled, but the chaser hasn't been synched yet.

5. In the timeline, identify the start of the beat in the audio file and line-up the beginning of the chaser clip to that beat as shown below:

01:06 00:00:01:18	00:00:02:00	0 • 00:00:02:12 00:00:02:
		Mallin
		Lamp Chaser (Chaser4_17 - Unsynched)

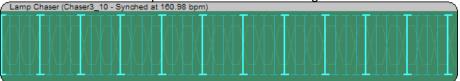
This tells the beat detector which beat you want to sync to.

(Note: you may need to expand the timeline to get a closer view using the buttons in the timeline toolbar.)

- 6. Now, select both the chaser clip and the audio clip (click on one to select it, then click on the other while holding down the CTRL key to select both).
- Right-click on the chaser clip and select Sync Chaser BMP. This will bring up the <u>Sync</u> <u>Chaser Beat</u> dialog window. For now, just click OK. After a few seconds, you should see a message that looks like this:

VenueM	agic 2.0 🛛 🔀
♪	Detected scaled tempo of 100.7 bpm.
	ОК

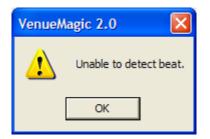
Click OK. Your chaser clip should now low something like this:



You are now synched-up and ready to go!

Auto Synching Problems

VenueMagic will do the best it can to detect the beat of the selected music and sync to it. If the music does not have a clearly distinguishable beat or if the beat is erratic or changing, VenueMagic may not get it exactly right. It may not be able to find the beat at all, in which case you will see the message:



If VenueMagic has trouble finding the beat, you may try some or all of the following:

1. Try breaking the music into sections by inserting a different chaser clip for each section. This is especially useful for songs that change tempo a lot.

00	0:00		00:00	35:06		00:01	10:13		00:01	:45:19		00:0	2:20:26			00:02
ſ	My S	Song With a	a Beat.wa	v					ter al. Jak. Sain (ett.) - Decimited ()							
ľ	÷.,	, that date that		1		h territ			1.1.1.1.1	,						
																-
l						L.				h						r
ŀ	adl a b		ultan tar		un she di		u tedu		استعاداته	u u an an ta la	ulu				din	
ſ	Lan	np Chaser	Lamp	Chaser (C	Chaser4_1	7 - Synche	ed at 100	Lamp	Chaser (C	Lamp C	Chaser (C	haser4_	17 - Sync	hed at	52.85 b	ph.
							והר									
			γγ				γγ		γγγ	VΥ						
			$\Lambda \Lambda$,				$\Lambda \Lambda$		ΛΛ/	$\Lambda \Lambda /$						
							J									

The beat detection function searches for the most prominent beat across the length of the music corresponding to the chaser clip and applies it to the whole chaser clip. It will not detect and sync to tempo changes along the same chaser clip.

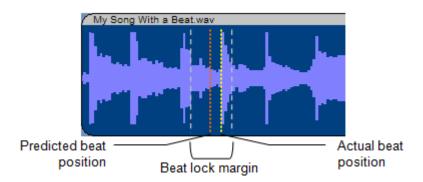
2. Change the *Minimum BPM* in the <u>Advanced Auto-Sync Settings</u> dialog window. This value tells VenueMagic where to look for the most prominent beat. This value defaults to 45 bpm.

Many songs will apply a strong beat at the beginning of a rhythmic pattern which could confuse beat detection and give you a very low BMP (10-20 or even lower) if this limit is set too low. However, in some cases, the may be the only beat VenueMagic is able to lock on to. Try lowering the number in degrees and testing the results. You can then speed up the tempo by setting the *Multiply by* scaling value in the <u>Sync Chaser Beat</u> window.

- 3. In very rare occasions VenueMagic may be able to extract a beat from rhythmic patterns that occur above the actual beat of the song. Change the Maximum BPM in the Advanced Auto-Sync Settings to a higher value and see what happens. You can then slow down the beat by setting the *Divide by* scaling value in the *Sync Chaser Beat* window.
- Sometimes VenueMagic is able to identify the tempo (BPM) of the song, but can't quite lock on to the precise beat. Try varying the *Beat lock margin* value in the <u>Advanced</u> <u>Auto-Sync Settings</u> window by small amounts ad see if it helps.

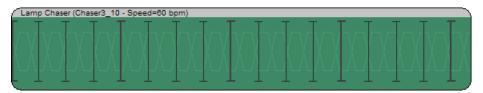
The beat detection functions works in two steps: First, it identifies a tempo based on the most prominent beat. Then it tries to lock-on to the strongest audio "pulse" in the vicinity of where it predicts the actual beat should be. This helps adjust for minor (usually

imperceptible) tempo variations within the music. The *Beat lock margin* tells VenueMagic how far to stray from the predicted beat position to find the actual beat.



- 5. Some songs may confuse the beat lock function even though the BPM calculation is fairly accurate. You can disable this feature by un-checking the Auto-beat lock box in the <u>Advanced Auto-Sync Settings</u> window. Keep in mind that this may cause the chaser beat to drift out of sync with the music over time. Use multiple chaser clips to periodically "resync" the chaser beat by manual adjustment of each chaser clip position.
- 6. When all else fails, you may need to sync to the beat the old fashioned way. Uncheck the *Enable auto-beat sync* box in the <u>Lamp Chaser Setup Properties</u> window. Then, through trial and error, adjust the chaser speed manually until you have a close match. Again, it may be necessary to use multiple chaser clips so that you can re-sync periodically.

With auto-beat sync disabled, your chaser clip will look something like this:



Sync Chaser Beat

This dialog comes up when the Sync Chaser BMP... pop menu option is selected from the timeline (see <u>Lamp Chaser Auto Beat Synchronization</u>). After setting the desire parameter(s), click OK to begin beat detection.

Sync Chaser Beat	×
Audio file: C:\Documents and Settings\Owner\My Documents\VenueMagic\AudioLib\02 Keep Holding On.wav	OK Cancel
Start time: 54.1 secs Length: 16.7 secs	
Scaling No scaling Multiply by Divide by	

Audio file: Shows the path of the audio file chaser will be synched to.

Start time: The start time of the lamp chaser clip with respect to the beginning of the audio clip. This field is not editable.

Length: The length of the chaser clip. This field is not editable.

Scaling After the tempo of the audio file is detected, it can be scaled to make the chaser beat faster of slower. Select from the following:

- No scaling: Do not perform any scaling of the detected tempo.
- *Multiply by*: Multiply detected tempo by the specified amount to make the beat faster.
- **Divide by**: Divide detected tempo by the specified amount to make the beat slower.

Note: Scaling the chaser beat will have no effect on the actual tempo of the music.

Advanced Auto-Sync Settings

This dialog window is opened by the Advanced... button in the <u>Lamp Chaser Setup Properties</u> window. For more explanation of the settings in this window, see <u>Auto-Synching Problems</u>.

Advance Auto-Sync Settings	
Minimum BPM: 45 Maximum BPM: 230	Cancel
✓ Auto-beat lock Beat-lock margin (%): 5.0	

Minimum BPM:	Specifies the lowest tempo in beats per minute that VenueMagic will consider while attempting to detect the tempo and beat of a music file.
Maximum BPM:	Specifies the highest tempo in beats per minute that VenueMagic will consider while attempting to detect the tempo and beat of a music file.
Auto-beat lock	Checked by default. Uncheck this box to disable the auto beat-lock feature of the VenueMagic beat sync function.
Beat-lock margin:	How far the beat-lock function will stray from the predicted beat position to attempt to locate the actual beat. Value is a percentage of the calculated beat length.

Lamp Chaser Library

(Only Available for VenueMagic Classic and above) The Lamp Chaser Library provides a quick and easy way to create custom chaser programs. VenueMagic provides a simple, text-based chaser sequence design code that is both powerful and easy to learn.

Chaser Library	
A	Chaser Preview Window
C D	
Chaser program: Test speed:	
Chaser4_26 Chaser4_27 Chaser4_28 Chaser4_29 Chaser4_30 Chaser4_31 Chaser4_32 Chaser4_32 Chaser8_01 Chaser8_02	Chaser Program Editor
Chaser8_03 Image: Compile Success: New Delete Compile Success: Chars=21 Channels=4 Periods=4.00	Program Compile Results Window

The following steps summarize the process of creating a chaser program:

- 1. Click the *New* button under the *Chaser program* list to add a new chaser program to the list called "Lamp Chaser". You will note that the new program is selected and in "edit mode" so that you can type in your own name for the chaser. If you wish to change the name at a later time, select the program in the list by clicking on it, then click on it again to re-enter edit mode.
- 2. Click in the Chaser Program Editor and enter code for the chaser program.
- 3. Click on the *Compile* button to compile and plot the chaser program. If there are no errors, the Program Compile Results window will show "Success, followed by the number of characters in the code, how many channels are in the sequence, and how many periods (beats) are in the sequence. The Chaser Preview Window shows an example of what the chaser will look like.

Writing Chaser Program Code

Writing chaser code is simple.

First, the letters of the alphabet (A, B, C, to Z) represent lamps. This will allow your programs to include up to 26 lamps. Letters cannot be skipped. In other words, if you wish to program a sequence using 4 lamps, you must use A, B, C & D.

Cycles and Periods

A chaser program represents a repeating sequence called a *cycle*. A cycle is divided segments called *periods*, which are represented by the dash ("-") character. A chaser program is simply a collection of different lamp patterns for each period in a cycle.

So, a basic chaser that flashes four lamps in sequence, one after another, will look like this:

A-B-C-D

Suppose you wanted the lamps A and B to be on simultaneously, followed by C and B turned on simultaneously. Here's the code that would accomplish this:

AB-CD

Pretty simple? Try to figure out this program:

```
A-AB-ABC-ABCD-BCD-CD-D-
```

Quarter Periods

The forward slash ("/") represents 1/4 of a period. What do you thing the program below will do? Try it. (note that spaces and carriage returns are ignored):

A/B/C/D/ A//B//C//D// A///B///C///D/// A-B-C-D

Chaser Pulse Width

You will notice the even though we are using quarter periods, the lamps stay on for a whole period, making a confusing mess. The time a lamp remains on is called the *pulse width*. You can change the pulse width using the command:

[**w***n*] (pulse width)

where *n* is a number between 0-100 specifying the pulse width as a percentage of a period. Let's try our last program a little differently.

[W25] A/B/C/D/ [W50] A//B//C//D// [W75] A///B///C///D/// [W100] A-B-C-D

Rise Time & Fall Time

Make the lamps dissolve on and off by changing the rise and fall time using the commands:

[R n]	(rise time)
[F n]	(fall time)

where n is a number (0 – 100) specifying the rise/fall time as a percentage of the pulse width.

Example:

[W50][R25][F25] A-B-C-D

Lamp Level

Scale the lamp level using the command:

[Ln] (lamp level)

where n is a number (0 – 100) specifying the lamp level.

Example:

[W50][R25][F25] [L100]A-[L50]B-[L100]C-[L50]D

Built-in Lamp Effects

In addition to <u>Level Control</u> and <u>Lamp Chaser</u> effects, VenueMagic provides an assortment of specialized built-in lamp effects designed to display specific effect patterns. Internally, these lamp effects are actually based on mathematical equations and are intended to simulate lighting "phenomena" such as lightning, candlelight, sunrise/sunset, explosions and a lot more. There are also effects designed to control moving light fixtures to draw circles, figure-8's random patterns, etc...

VenueMagic's *Built-in Lamp Effects* library is always growing, and you can download new libraries as they come from the VenueMagic website.

Built-in Lamp Effect General Properties

The appearance of the built-in lamp effect's *General Properties* dialog window will appear different for each different lamp effect. However, the setting fields remain constant. This window is for the Candelabra Effect, but the descriptions below apply to all lamp effects.

Candelabra Pro	operties			X
General Setting	s Channel Order	Notes		
	andelabra			
☑ Enable p				
		ОК	Cancel	Help

Name Enter the name that will appear on the clip in the timeline window.

Enable playback Check this box to enable playback of the clip. Uncheck it to disable lamp control by this clip during timeline playback. It is checked by default.

Lock clip Check this box to lock the clip onto the timeline. Locked clips cannot be moved or resized.

Built-in Lamp Effect Settings Properties

The appearance of the Lamp Effect Settings Properties dialog window will appear different for each different lamp effect. This window is for the Candelabra Effect, but the descriptions below apply to all lamp effects.

Candelabra Properties General Settings Channel Order Notes	×
Channel: WEMC1_1.Bass WEMC1_1.Treble ED4038_1.Selection ED4038_Selection ED4038.Speed ED4038 1.RGB.Red	Select type: None Candelabra
ED4038_1.RGB.Green ED4038_1.RGB.Blue ED4038.RGB.Red Select parameter to set: Rame level 80.0 Flicker 100.0	Parameter value: 100.0
Hutter level 25.0 Hutter speed 50.0 Lamp Effect Help End level: 0.0	Set parameter with envelope Ext. ctrl. Select
ОК	Cancel Help

- **Channel:** This list contains all of the channels currently linked to the track in which the Lamp Effect clip resides. They are listed in alphabetical order. Select the channel for which you would like to modify lamp effect settings. Selecting [Global Settings] at the top of the list will allow you to modify settings that will affect all of the channels together.
- **Select type:** Choose a lamp effect variation type for the selected channel.

Each VenueMagic lamp effect offers one or more variations of the effect that can be applied to a specific channel. For example, for effects that depend on lamp color (such as in the *Sunrise RGB* and *Sunset RGB* effects), a type will be provided for each colored lamp. Another example is when effects that require coordination between two motion axes (such as the in the *Circle* effect). There is one variation type for the *Pan* axis and one for the *Tilt* axis (or X & Y axes for scanning lamp heads).

When a lamp effect is first added to a track, or when additional channels are added to the track thereafter, VenueMagic will do its best to automatically select the right type for the right channel based on the channel's type (see <u>Fixture Channel Types</u>). Afterwards, you can go through the list and make any changes you feel are necessary.

If you want a channel to be unaffected by the lamp effect, select None.

Select parameter	This list show all of the parameters associated with the selected variation
to set:	type. Select the one you wish to modify.

Parameter value:	Change the value of the selected parameter by moving the slider, or by
	entering the value directly into the field.

Set parameter Most of the lamp effects will allow you control certain parameters using envelopes. Check this box to enable envelope control of the selected parameter.

Ext. ctrl. Lamp effect parameters can be also be controlled in real-time by an external input. To enable this, check this box then click **Select** to bring-up the <u>Select External Control</u> window.

🔲 Set parameter	r with envelope
Ext. ctrl.	Select
JS_1_ZPOS	

Checking this box also disables setting the parameter with an envelope.

Ending lamp value:	Some lamp effects use a random value generator to create its effect. This means that the final channel level at the end of the clip is unpredictable. Set this value (0-100) to force the final channel level to the desire value.
Lamp Effect Help…	Click this button to bring-up a help window specific to this lamp effect.

Built-in Lamp Effect Channel Order Properties

Some lamp effects use the channel sequence number to vary the effect (such as in the *Pan Wave* and *Tilt Wave* effects). This makes channel order important. Rearrange the channel order by dragging them in around in this window.

Electric Short Properties	×
General Settings Channel Order	lotes
Drag to change channel order:	
Channels	Seq
DimmerRGB.Level	1
DimmerRGB.RGB.Red	2
DimmerRGB.RGB.Green	3
DimmerRGB.RGB.Blue	4
Reorder by DMX Address	
	OK Cancel Help

Note: the sequence number column (Seq) represents the sequence within the lamp effect. As you reorder channels, this column will not change.

Click the Reorder by DMX Address button to reorder the channels in the lamp effect by DMX address. This is useful if you have rearranged fixtures in the <u>Add Fixtures</u> window and would like to quickly rearrange the chaser's channel order. It is also useful if you need a quick way to reset channel ordering to the default.

Built-in Lamp Effect Notes

Enter notes about the lamp effect.

Candelabra Properties	
General Settings Channel Order Notes	
Candelabra Notes	
OK Car	ncel Help

Event Tracks

(Only Available for VenueMagic Classic and above)

Event tracks contain events that have been dragged over form the Events folder of the <u>Project</u> <u>Window</u>.



Event Track Panel

The figure below shows the function of each item in the event track panel.

	ACK 4 Pin track to page Disable events Solo play
	Lock track
L	Enable real-time event recording
Pin track to page	Click this icon to pin this track to its current location on the page. As you scroll the tracks up and down, this track will remain fixed.
Disable events	Click this icon to disable playback of events on this track.
Solo play	When enabled, only this event track will be active during playback. No other event track will play.
Lock track	Lock track to changes.
Enable real-time event recording	Enables real-time recording of events for this track. (See <u>Real-</u> time Recording of Events).

Event Track General Properties

Event Track Properties	×
General Events Notes	
Track name: Lightning	
OK Cancel Help	

Track name Enter the track name to be displayed in the track panel.

Lock track Check this box to lock out any changes to track

Event Track Event Properties

Event Track Properties	×
General Events Notes	
Disable events	
Preload "Run Timeline" events	
OK Cancel He	elp

Disable events Check to disable events on this track.

Preload "Run Timeline" events Check this box if you would like VenueMagic to pre-load the timelines specified by all of the track's "Run Timeline" events at the beginning of playback. This will ensure greater accuracy for the triggering of these timelines at their designated times. The trade-off is that if there are many "Run Timeline" events there may be a delay between running the parent timeline and the actually start of playback. If accuracy is not important, leave this box unchecked.

Event Track Notes

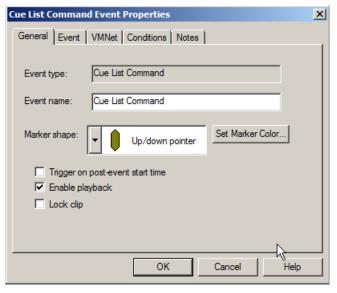
Enter notes about the event track.

Event Track Properties	
General Events Notes	
Event Track Notes	
OK Cancel	Help

Cue List Command Event

The *Cue List Command* event executes one of several commands that effect execution of a single item or all items of the <u>Cue List</u>.

Cue List Command Event General Properties



Event type: Describes the event type. In this case it is a *Cue List Command* event.

- **Event name:** The name of the event as it will appear in the status bar and in tool tips when the mouse cursor passes over the event.
- Marker shape:Select a desired shape for the event marker. Event markers are not
resizable (as are audio clips and lamp effect clips) because they are
executed at a specific instance in time rather than over a range of time.
- Set Marker Color... Choose a color for the marker. When event markers are first dragged

button	into an event track they appear in a dark gray color. This indicates that the event has not yet been setup. After it has been setup, is assumes its proper color.
Trigger on post- event start time.	When this is checked, the event will trigger immediately if playback is started after the event. If unchecked, the event will only trigger at the event. Playback must start before or on the event.
Enable playback	Uncheck this box to prevent the event from triggering during playback.
Lock clip	Check this box to lock the clip onto the timeline. Locked clips cannot be moved or resized.

Cue List Command Event Properties

C	Cue List Command Event Properties				
	General Event VM	Net Conditions Notes			
	Constant and the	Pause item			
	Cue list command:	Pause item			
	Cue list item name:	Timeline 1			
		1 .			
		OK Cancel Help			

Select a <u>Cue List</u> command from the *Cue list command* selector box. Some of the commands are directed to all of the cue items currently running in the Cue List. Other commands affect a specific item in the list, so a name is required in the *Cue list item name* field. This name is the name that appears in the *Cue* column of the *Cue List* when a cue is running, and is set in the *Name in Cuelist* field in the <u>Timeline Playback Options</u> window for timelines, or the <u>Playlist</u> <u>Playback Options</u> for playlists. For audio files, it will be the name of the file, with extension (for example, "MySong.wav").

The <u>Play Audio Event</u> and the <u>Run Timeline Event</u> allow you to change the name for audio files and timelines triggered by those events. <u>Cue Buttons</u> also allow this.

The following list shows the available commands and their descriptions:

Stop item	Stop playback of specified item and remove it from the cue list.
Pause item	Pause playback of specified item in the cue list

Resume item	Resume playback of a specified item that is currently paused.
End loop	If a specified item is playing in a loop, this event will prevent the item from looping after the current playback.
Stop all	Stop playback of all items and remove them from the cue list.
Pause all	Pause playback of all items in the cue list.
Resume all	Resume playback of all paused items in the cue list.
End all loops	Any items in the cue list that are playing in a loop will stop at the end of the current playback.
Mute all	Mute all sound.
Unmute all	Unmute all sound.
Disable lamps	Disable all lamp control.
Enable lamps	Enable all lamp control.

Cue List Command Event VMNet Properties

General Event VMNet Conditions Notes	Cue List Command Event Properties	×
MyClient1	General Event VMNet Conditions Notes	
	Send to VMNet remote	
	OK Cancel Hel	

With *Send to VMNet remote* checked the Cue List Command event is routed to a VMNet server on the network by way of the selected client (see <u>VMNet</u>, <u>Project VMNet Settings</u>).

Cue List Command Event Conditions

Setup event trigger conditions (see Event Conditions).

Cue List Command Event Notes

Enter notes about event.

Cue List Command Event Properties	×
General Event VMNet Conditions Notes	
Cue List Command Notes	
OK Cancel	Help

Event Table Event

The *Event Table* event executes an event in the <u>Event Table</u>. This allows you to reuse events that you have already created and added to the event table.

Event Table Event General Properties

Event Table Event Properties	×		
General Event Conditions Notes			
Event type: Event Table Event			
Event name: Event Table Event			
Marker shape: Up/down pointer Set Marker Cold	ж		
 Trigger on post-event start time Enable playback Lock clip 			
OK Cancel	Help		

Event type: Describes the event type. In this case it is a *Event Table* event.

Event name:	The name of the event as it will appear in the status bar and in tool tips when the mouse cursor passes over the event.
Marker shape:	Select a desired shape for the event marker. Event markers are not resizable (as are audio clips and lamp effect clips) because they are executed at a specific instance in time rather than over a range of time.
Set Marker Color button	Choose a color for the marker. When event markers are first dragged into an event track they appear in a dark gray color. This indicates that the event has not yet been setup. After it has been setup, is assumes its proper color.
Trigger on post- event start time.	When this is checked, the event will trigger immediately if playback is started after the event. If unchecked, the event will only trigger at the event. Playback must start before or on the event.
Enable playback	Uncheck this box to prevent the event from triggering during playback.
Lock clip	Check this box to lock the clip onto the timeline. Locked clips cannot be moved or resized.

Event Table Event Properties

Event Table Event Properties	
General Event Conditions Notes	
Select event: Run Timeline	
Ignore event condition]	
OK Cancel Help	

The *Select event* drop-down lists all of the events currently defined in the <u>Event Table</u>. Select the event that you would like the Event Table Event to execute. Check the *Ignore event condition* box if you would like the conditions associated with the event in the event table to be ignored. Checking this box does not affect the conditions defined for the Event Table Event.

Event Table Event Conditions

Setup event trigger conditions (see Event Conditions).

Event Table Event Notes

Enter notes about event.

General Event Conditions Notes
Event Notes
OK Cancel Help

MIDI Out Event

A *MIDI Out* event will send a stream of MIDI commands out the default MIDI out port (see <u>MIDI</u> <u>Device Setup</u>).

MIDI Out Event General Properties

I	1IDI Out	Event F	Properties	×
	General	Event	Conditions Notes	
	Event ty Event n		Midi Out	
	Marker	shape:	Up/down pointer Set Marker Color	
	₹ E	rigger of nable pl .ock clip		
			OK Cancel Help	,

Event type: Describes the event type. In this case it is a *Midi Out* event.

Event name:	The name of the event as it will appear in the status bar and in tool tips when the mouse cursor passes over the event.
Marker shape:	Select a desired shape for the event marker. Event markers are not resizable (as are audio clips and lamp effect clips) because they are executed at a specific instance in time rather than over a range of time.
Set Marker Color button	Choose a color for the marker. When event markers are first dragged into an event track they appear in a dark gray color. This indicates that the event has not yet been setup. After it has been setup, is assumes its proper color.
Trigger on post- event start time.	When this is checked, the event will trigger immediately if playback is started after the event. If unchecked, the event will only trigger at the event. Playback must start before or on the event.
Enable playback	Uncheck this box to prevent the event from triggering during playback.
Lock clip	Check this box to lock the clip onto the timeline. Locked clips cannot be moved or resized.

MIDI Out Event Properties

MIDI Out Event Properties	×
General Event Conditions Notes	
MIDI Messages (sent in order):	
[Ch 1] Pitch Wheel: 0 Add	
[Ch 11] Program Change: 120	
[Ch 3] Program Change: 4 Edit	
MIDI Start Remove	
Move up	
Move up	
Move down	
Route to MIDI input	
	-1
OK Cancel Help	

- MIDI Messages A list of MIDI messages that will be sent out, in order, when the event is triggered.
- Add...Add a message to the list. Brings up the <u>Select MIDI Message</u> dialog
window.Edit...Brings up the <u>Select MIDI Message</u> dialog to modify the selected midi
message.RemoveRemove selected message(s) from the list.

Move up	Move selected message up in the list.
Move down	Move selected message down in the list.
Route to MIDI input	Sends the command to VenueMagic's MIDI input processor in addition to the MIDI output. This is useful if you are controlling a MIDI output with a VCS slider and you need the slider to know if an event has sent a message to the same MIDI control.

MIDI Out Event Select Midi Message

Select MIDI Messa	ge	X
Message type: Program value:	Program Change 💌	Channel: 1
Capture MIDI Mess	age OK	Cancel

Select a MIDI message type in the Message type box. The rest of the dialog will modify itself adding or removing fields to allow for appropriate data entry for the selected type.

Click Capture MIDI Message to bring up the Capture MIDI Message window.

Capture MIDI Message

This window provides a real-time display of the most recent MIDI messags received over the default MIDI input device (see <u>MIDI Device Setup</u>).

0	apture Midi Me	ssage		
	Waiting to capture MIDI messages:	one of the fol	lowing	ОК
	Controller		~	Cancel
	MIDI Continue MIDI Start MIDI Stop Note Off Note On Pitch Wheel Program Change Song Position			Monitor Midi
	Channel:			
	Captured:	No message	e captured	

Click OK to capture the currently displayed message and send it back to the Select MIDI Message window.

Click the Monitor Midi... button to bring up the <u>MIDI Monitor</u> window.

MIDI Out Event Conditions

Setup event trigger conditions (see <u>Event Conditions</u>).

MIDI Out Event Notes

Enter notes about event.

MIDI Out Event Properties	×
General Event Conditions Notes	
Midi Out Event Notes	
OK Cancel Help	

Multi-Event Event

Event type:

The Multi-Event event executes multiple events at once.

Multi-Event Event General Properties

Multi-Event Event Properties	x
General Event Conditions Notes	
Event type: Multi-Event	
Event name: Multi-Event	
Marker shape: Up/down pointer Set Marker Color	
 ☐ Trigger on post-event start time ☑ Enable playback ☐ Lock clip 	
OK Cancel He	lp

Describes the event type. In this case it is a *Multi-Event* event.

Event name:	The name of the event as it will appear in the status bar and in tool tips when the mouse cursor passes over the event.
Marker shape:	Select a desired shape for the event marker. Event markers are not resizable (as are audio clips and lamp effect clips) because they are executed at a specific instance in time rather than over a range of time.
Set Marker Color button	Choose a color for the marker. When event markers are first dragged into an event track they appear in a dark gray color. This indicates that the event has not yet been setup. After it has been setup, is assumes its proper color.
Trigger on post- event start time.	When this is checked, the event will trigger immediately if playback is started after the event. If unchecked, the event will only trigger at the event. Playback must start before or on the event.
Enable playback	Uncheck this box to prevent the event from triggering during playback.
Lock clip	Check this box to lock the clip onto the timeline. Locked clips cannot be moved or resized.

Multi-Event Event Properties

Multi-Event Event Properties	
General Event Conditions	Notes
Show	sub-events in Event Status window 🗍
Event Name	Туре
Run Timeline	Run Timeline:"Capture Show 1"
Midi Out	Midi Out:1 Msgs
Cue List Command	Cue List Command:"Stop all"
1	
Add Remove	Edit ↑↓
	OK Cancel Help

Adding, Removeing and Editing Events in the List

Insert events into the event list by clicking Add, to bring-up the <u>Select Event</u> window. Select the desired event, click OK, then setup the event. Events are added to the list show the name of the event in the *Event Name* column and a brief description of the event settings in the *Type* column.

You can change the name of an event by first selecting the event in the list, and then clicking the text in the *Event Name* column for the selected event. Now type in a new name for the event and press the *Enter* key.

Remove one or more events from the list by first selecting them and then clicking on *Remove*. Modify the settings of the selected event by clicking on *Edit*.

Re-ordering Events in the List

The listed events are executed in the order they appear in the list. To change the position of an

event in the list, select the event, then use the buttons to move the selected event up and down in the list.

Important note: Events in the list should not have conditions that depend on other events in the list because the results will be unpredictable. For example, if the condition settings of *Run Timeline* event in the list depends on a variable being set by another event in the list, it may not function as expected. This is because the conditions for all events in the list are evaluated before any events in the list are executed.

Multi-Events in the Event Status Window

Normally, multi-events take up a single line in the <u>Event Status</u> window. If you would like all of the events in a multi-event to appear in the window, check the *Show sub-events in Event Status window* box.

Multi-Event Event Conditions

Setup event trigger conditions (see Event Conditions).

Multi-Event Event Notes

. . .

Enter notes about eve	nt.		
Multi-Event Event Properties			×
General Event Conditions	Notes		1
Multi-Event Notes			
	ОК	Cancel	Help

Play Audio Event

The *Play Audio* event will play a selected Wave (.wav), MP3 (.mp3), Windows Media (.wma) or MIDI (.mid) file by sending it to the <u>Cue List</u>. The selected file does not have to be included in the Audio folder of the <u>Project Window</u>.

Play Audio Event General Properties

Play Audio Event Properties	×
General Event Conditions Notes	
Event type: Play Audio:"Evil Sorcerer.mp3"	-
Functionary Disc Audio	-
Event name: Play Audio	
Marker shape: Up/down pointer Set Marker Col	or
Trigger on post-event start time	
Finable playback	
Lock clip	
OK Cancel	Help

Event type: Describes the event type. In this case it is a *Play Audio* event.

Event name:	The name of the event as it will appear in the status bar and in tool tips
	when the mouse cursor passes over the event.

- Marker shape:Select a desired shape for the event marker. Event markers are not
resizable (as are audio clips and lamp effect clips) because they are
executed at a specific instance in time rather than over a range of time.
- Set Marker Color... Choose a color for the marker. When event markers are first dragged into an event track they appear in a dark gray color. This indicates that the event has not yet been setup. After it has been setup, is assumes its proper color.
- **Trigger on post**event start time. When this is checked, the event will trigger immediately if playback is started after the event. If unchecked, the event will only trigger at the event. Playback must start before or on the event.
- **Enable playback** Uncheck this box to prevent the event from triggering during playback.
- Lock clip Check this box to lock the clip onto the timeline. Locked clips cannot be moved or resized.

Play Audio Event Properties

Play Audio Event Pre	operties	×
General Event C	onditions Notes	
Audio file:	C:\Users\Admin\Documents\VenueMagic\Audic	
Addio mo.		
Master volume (%):	Browse	
Name in Cuelist:	Evil Sorcerer	
Play looped:		
Play one only:		
	OK Cancel Help	

Audio file: The path of the file that will be played when the event is triggered. Click *Browse…* to bring up a file list. You can select any selected Wave (.wav), MP3 (.mp3), Windows Media (.wma) or MIDI (.mid) file. The selected file does not have to be included in the Audio folder of the <u>Project Window</u>.

Master volume:	Enter a value (0-100%) for the master volume applied to the file during playback.
Name in Cuelist:	Enter the name that will appear in the <i>Cue</i> column of the <u>Cue List</u> while the audio file is being played.
Play looped:	Check this box to play audio file in a loop.
Play one only:	If this box is checked, the event will not play the audio file if the same file is already playing in the Cue List.

Play Audio Event Conditions

Setup event trigger conditions (see Event Conditions).

Play Audio Event Notes

Enter notes about the event.

Play Audio Event Properties	×
General Event Conditions Notes	
Play Audio Event Notes	
OK Cancel Help	

Run Timeline Event

The *Run Timeline* event will execute any timeline that is part of the current project by placing it into the <u>Cue List</u>.

Run Timeline Event General Properties

Run Timeline Event Properties		
General Event VMNet Conditions Notes		
Event type: Run Timeline:"Rashing"		
Event name: Run Timeline		
Marker shape: Up/down pointer Set Marker Color		
 Trigger on post-event start time Enable playback Lock clip 		
OK Cancel Help	,	

Event type: Describes the event type. In this case it is a *Run Timeline* event.

- **Event name:** The name of the event as it will appear in the status bar and in tool tips when the mouse cursor passes over the event.
- **Marker shape:** Select a desired shape for the event marker. Event markers are not resizable (as are audio clips and lamp effect clips) because they are executed at a specific instance in time rather than over a range of time.
- Set Marker Color... Choose a color for the marker. When event markers are first dragged

button	into an event track they appear in a dark gray color. This indicates that the event has not yet been setup. After it has been setup, is assumes its proper color.
Trigger on post- event start time.	When this is checked, the event will trigger immediately if playback is started after the event. If unchecked, the event will only trigger at the event. Playback must start before or on the event.
Enable playback	Uncheck this box to prevent the event from triggering during playback.
Lock clip	Check this box to lock the clip onto the timeline. Locked clips cannot be moved or resized.

Run Timeline Event Properties

Run Timeline Event	Properties	×
General Event	/MNet Conditions Notes	
·		
Select timeline:	Flashing	
Master volume:	100	
Master lamp level:	100	
motor lamp for on.		
Name in Cuelist:	Flashing	
Play looped:		
Play one only:		
Play as:	Background	
	OK Cancel Help	

- **Select timeline:** Select a timeline to run when the event triggers. This box will only offer timelines that are found in the Timeline folder of the <u>Project Window</u>. If this event is setup as a <u>VMNet remote event</u>, a selection will not be offered. Rather, the user will have to enter in the name of the remote timeline manually.
- **Master volume:** Enter a value (0-100%) for the master volume applied to the timeline during playback.
- **Master lamp level:** Enter a value (0-100%) for the master lamp level applied to the timeline during playback.
- **Name in Cuelist:** Enter the name that will appear in the *Cue* column of the <u>Cue List</u> while the timeline is being played.

Play looped: Check this box to play the timeline in a loop.

Play one only: If this box is checked, the event will not play the timeline if the same timeline is already playing in the Cue List.

Run Timeline Event VMNet Properties

×

With Send to VMNet remote checked the Run Timeline event is routed to a VMNet server on the network by way of the selected client (see <u>VMNet</u>, <u>Project VMNet Settings</u>), and will not be executed on the local computer.

Run Timeline Event Conditions

Setup event trigger conditions (see Event Conditions).

Run Timeline Event Notes

Run Timeline Event Properties	×
General Event VMNet Conditions Notes	
Run Timeline Event Notes	
OK Cancel H	elp

Play as:

Set Tapper BPM Event

The Set Tapper BPM event will change the current beats-per-minute of the VenueMagic <u>beat</u> tapper.

Beat Tapper Event General Properties

B	eat Tapper Event Properties	×
	General Event VMNet Conditions Notes	1
	Event type: Set Tapper BPM=120	
	Event name: Set Tapper BPM	
	Marker shape: Up/down pointer Set Marker Color	
	 Trigger on post-event start time ✓ Enable playback ✓ Lock clip 	
	OK Cancel Help	

Event type: Describes the event type. In this case it is a *Set Tapper BPM* event.

- **Event name:** The name of the event as it will appear in the status bar and in tool tips when the mouse cursor passes over the event.
- **Marker shape:** Select a desired shape for the event marker. Event markers are not resizable (as are audio clips and lamp effect clips) because they are executed at a specific instance in time rather than over a range of time.
- Set Marker Color... Choose a color for the marker. When event markers are first dragged into an event track they appear in a dark gray color. This indicates that the event has not yet been setup. After it has been setup, is assumes its proper color.
- **Trigger on post**event start time. When this is checked, the event will trigger immediately if playback is started after the event. If unchecked, the event will only trigger at the event. Playback must start before or on the event.
- **Enable playback** Uncheck this box to prevent the event from triggering during playback.
- Lock clip Check this box to lock the clip onto the timeline. Locked clips cannot be moved or resized.

Beat Tapper Event Properties

B	Beat Tapper Event Properties	×
	General Event VMNet Conditions Notes	
	New Beat Tapper BPM: 120	
	OK Cancel Help	

New Beat Tapper BPM Enter a new beats-per-minute value for the beat tapper. When the event is triggered, the BPM output of the tapper will be set to this value. It will remain at this until the user manually taps the beat tapper or another *Beat Tapper Event* is triggered with a different value. (See <u>Beat Tapper Control</u>.)

Beat Tapper Event VMNet Properties

Set VMNet remote event.	
Beat Tapper Event Properties	×
General Event VMNet Conditions Notes	
Send to VMNet remote:	
MyClient3	
OK Cancel Help	

With Send to VMNet remote checked the Beat Tapper event is routed to a VMNet server on the network by way of the selected client (see <u>VMNet</u>, <u>Project VMNet Settings</u>), and will not be executed on the local computer.

Beat Tapper Event Conditions

Setup event trigger conditions (see Event Conditions).

Beat Tapper Event Notes

Enter notes about event.

Run Timeline Event Properties	×
General Event VMNet Conditions Notes	
Beat Tapper Event Notes	
OK Cancel	Help

Serial Port Output Event

(Only available for DMX+AV and above) The Serial Out event is used to send commands over a serial port to an external hardware devices such as a video controller/switcher, etc...

Serial Event General Properties

Serial Event Properties	X
General Event Conditions Notes	1
Event type: Serial Out	
Event name: Serial Out	
Marker shape: Up/down pointer Set Marker Color	
 Trigger on post-event start time Enable playback 	
Lock clip	
OK Cancel Help	

Event type:	Describes the event type. In this case it is a Serial event.
Event name:	The name of the event as it will appear in the status bar and in tool tips when the mouse cursor passes over the event.
Marker shape:	Select a desired shape for the event marker. Event markers are not resizable (as are audio clips and lamp effect clips) because they are executed at a specific instance in time rather than over a range of time.
Set Marker Color… button	Choose a color for the marker. When event markers are first dragged into an event track they appear in a dark gray color. This indicates that the event has not yet been setup. After it has been setup, is assumes its proper color.
Trigger on post- event start time.	When this is checked, the event will trigger immediately if playback is started after the event. If unchecked, the event will only trigger at the event. Playback must start before or on the event.
Enable playback	Uncheck this box to prevent the event from triggering during playback.
Lock clip	Check this box to lock the clip onto the timeline. Locked clips cannot be moved or resized.

Serial Event Properties

Serial Eve	nt Prop	perties				x
General	Event	Conditions	Notes			
Select (port:	Prolific USB	to-Serial Comm	Port (COM20)	•	
	utput stri	-				
SWI [CR]		VIDEO 1	,2[CR]AU[DIO MODE 4	1	
			ОК	Cancel	Help	

Select port Select a serial port from the list of ports in the Serial Port List Window.

Serial output string Enter a string that is to be output through the selected serial port when the event is triggered. Special control characters can be enclosed in square brackets (i.e: "[]") either as numerical values, hexadecimal values preceded by the '\$' character, or as ASCII mnemonics (see table below).

Examples:

PLAYSTART	: string output
[13]	: special control character 13 (CR).
[\$0d]	: special hex character 0d (also CR)
[CR]	: ASCII mnemonic.

ASCII Mnemonics:

Dec	Hex	Mnem	Dec	Hex	Mnem
0	00	NUL	16	10	DLE
1	01	SOH	17	11	DC1
2	02	STX	18	12	DC2
3	03	ETX	19	13	DC3
4	04	EOT	20	14	DC3
5	05	ENQ	21	15	NAK
6	06	ACK	22	16	SYN
7	07	BEL	23	17	ETB
8	08	BS	24	18	CAN
9	09	TAB	24	19	EM
10	0a	LF	26	1a	SUB
11	0b	VT	27	1b	ESC
12	0c	FF	28	1c	FS
13	0d	CR	29	1d	GS
14	0e	SO	30	1e	RS
15	Of	SI	31	1f	US

Serial Event Conditions

Setup event trigger conditions (see Event Conditions).

Serial Event Notes

Enter notes about event.

Serial Event Properties	×
General Event Conditions Notes	
Serial Event Notes	
OK Cancel	Help

Show HTML Event

The *Show HTML Event* will open/close a window for displaying HTML from a URL, and HTML file or HTML text. Only one HTML window can be shown at a time.

Show HTML Event General Properties

Show Html Event	t Properties	×
General Event	VMNet Conditions Notes	
Event type:	Show Html	
Event name:	Show Html	
Marker shape:	Up/down pointer	
Trigger or	n post-event start time	
🔽 Enable pl	ayback	
🗌 Lock clip		
	OK Cancel Help	

Event type:	Describes the event type. In this case it is a Show HTML event.
Event name:	The name of the event as it will appear in the status bar and in tool tips when the mouse cursor passes over the event.
Marker shape:	Select a desired shape for the event marker. Event markers are not resizable (as are audio clips and lamp effect clips) because they are executed at a specific instance in time rather than over a range of time.
Set Marker Color button	Choose a color for the marker. When event markers are first dragged into an event track they appear in a dark gray color. This indicates that the event has not yet been setup. After it has been setup, is assumes its proper color.
Trigger on post- event start time.	When this is checked, the event will trigger immediately if playback is started after the event. If unchecked, the event will only trigger at the event. Playback must start before or on the event.
Enable playback	Uncheck this box to prevent the event from triggering during playback.
Lock clip	Check this box to lock the clip onto the timeline. Locked clips cannot be moved or resized.

Show HTML Event Properties

Show Html Event Propertie	25	×
General Event VMNet	Conditions Notes	
URL www.venuemagic.com	Preview	
Window title: VenueMagic	Browser	
Command: Show Url Show Html	indow size: 500 400 F	
C Show Html file Wi	indow position: 65 109	
	OK Cancel Help	

URL Html Html File	The name and purpose of this field changes based on what you have selected in the Command options: Show Url: Enter in URL Show Html: Enter in actual HTML code. Show Html File: Click Browse button and select HTML file. Close window: Field is disabled.
Browse button	Open file window to select HTML file (visible only when Show Html File is selected).

Preview	Open the HTML window	to preview the contents.
Command:	Show Url: Show Html: Show Html File:	will be executed. The options are: Display HTML from a URL Display HTML entered into the HTML field. Show and HTML file. Close the HTML window.

Positioning the HTML Window

Click preview to open the HTML and display a preview of its contents. Once opened, you can move and resize the window as desired. The *Window size* and *Window position* fields will update as you move the window. You can also manually enter the pixel position and size. To force the window to center itself on the screen when it is shown, check the *Center* box.

If you wish an event to change the size and position for the window that was opened earlier by another Show HTML event, you must check the Reset box for size and position, respectively. If these boxes are left unchecked, the size and position of the window will only change when it is closed, then opened again.

Show HTML Event VMNet Properties

Setup VMNet remote event.

Show Html Event Properties	×
General Event VMNet Conditions Notes	
Send to VMNet remote	
OK Cancel Help	

With Send to VMNet remote checked the Show HTML event is routed to a VMNet server on the network by way of the selected client (see <u>VMNet</u>, <u>Project VMNet Settings</u>), and will not be executed on the local computer.

Show HTML Event Conditions

Setup event trigger conditions (see <u>Event Conditions</u>).

Show HTML Event Notes

Enter notes about event.

Show Html Event Properties	×
General Event VMNet Conditions Notes	
Show HTML Event Notes	
OK Cancel Help	

Set Variable Event

The Set Variable Event changes a value of a variable in the Variable Table.

Set Variable Event General Properties

Set Variable Event Properties	X
General Event VMNet Conditions Notes	
Event type: Set Variable	
Event name: Set Variable	
Marker shape: Up/down pointer Set Marker Color	
 Trigger on post-event start time Enable playback 	
Lock clip	
OK Cancel Help	,

Event type: Describes the event type. In this case it is a Set Variable event.

Event name: The name of the event as it will appear in the status bar and in tool tips when the mouse cursor passes over the event.

- Marker shape:Select a desired shape for the event marker. Event markers are not
resizable (as are audio clips and lamp effect clips) because they are
executed at a specific instance in time rather than over a range of time.
- Set Marker Color... Choose a color for the marker. When event markers are first dragged

button	into an event track they appear in a dark gray color. This indicates that the event has not yet been setup. After it has been setup, is assumes its proper color.
Trigger on post- event start time.	When this is checked, the event will trigger immediately if playback is started after the event. If unchecked, the event will only trigger at the event. Playback must start before or on the event.
Enable playback	Uncheck this box to prevent the event from triggering during playback.
Lock clip	Check this box to lock the clip onto the timeline. Locked clips cannot be moved or resized.

Set Variable Event Properties

Set Variable Event Pro	operties	×
General Event VMN	Net Conditions Notes	
Select variable:	Play Timeline Num 💌	
Select operation:	Add value to var	
Add value:		
	OK Cancel Help	

Select variable: Select a variable from the <u>Variable Table</u>. If this event is setup as a <u>VMNet remote event</u>, a selection will not be offered. Rather, the user will have to enter in the name of the remote variable manually.

Select operation Select an operation to perform on the variable. The operand field below this one changes based on the selection. Choose from the following:

Set var to value - sets the variable equal to the operand:

Set to value:	35
---------------	----

Add value to var – adds the operand value to the variable.

Add value:	1
------------	---

Subtract value to var – subtracts the operand value from the variable.

Subtract value:	10
Set var to rand	dom value – a

Set var to random value – assigns a random value to the variable between *Range min* and *Range max*.

Range min:	0
Range max:	100

Set Variable Event VMNet Properties

Setup VMNet remote event.

Set Variable Event Properties	×
General Event VMNet Conditions Notes	
✓ Send to VMNet remote: MyClient3	
OK Cancel Help	

With Send to VMNet remote checked the Set Variable event is routed to a VMNet server on the network by way of the selected client (see <u>VMNet</u>, <u>Project VMNet Settings</u>), and will not be executed on the local computer.

Set Variable Event Conditions

Setup event trigger conditions (see Event Conditions).

Set Variable Event Notes

Enter notes about event.

Set Variable Event Properties	×
General Event VMNet Conditions Notes	
Set Variable Event notes.	
OK Cancel Help	

Set Routing Group Event

Changes the current Channel Routing Group.

Set Routing Group Event General Properties

Set Routing Group Event Properties	×
General Event VMNet Conditions Notes	
Event type: Set Routing Group Event name: Set Routing Group	
Marker shape: Up/down pointer Set Marker Color	
 ☐ Trigger on post-event start time ☑ Enable playback ☐ Lock clip 	
OK Cancel Help	

Event type: Describes the event type. In this case it is a *Set Routing Group* event.

- **Event name:** The name of the event as it will appear in the status bar and in tool tips when the mouse cursor passes over the event.
- **Marker shape:** Select a desired shape for the event marker. Event markers are not resizable (as are audio clips and lamp effect clips) because they are executed at a specific instance in time rather than over a range of time.
- Set Marker Color...Choose a color for the marker. When event markers are first dragged
into an event track they appear in a dark gray color. This indicates that

	the event has not yet been setup. After it has been setup, is assumes its proper color.
Trigger on post- event start time.	When this is checked, the event will trigger immediately if playback is started after the event. If unchecked, the event will only trigger at the event. Playback must start before or on the event.
Enable playback	Uncheck this box to prevent the event from triggering during playback.
Lock clip	Check this box to lock the clip onto the timeline. Locked clips cannot be moved or resized.

Set Routing Group Event Properties

Set Routing Group Event Properties	×
General Event VMNet Conditions Notes	
Select routing group: SliderBank1	
OK Cancel Help	
OK Cancel Help	

Select the <u>routing group</u> to be selected when this event is triggered. If this event is setup as a <u>VMNet remote event</u>, a selection will not be offered. Rather, the user will have to enter in the name of the remote variable manually.

Set Routing Group Event VMNet Properties

Setup VMNet remote event.

Set Routing Group Event Properties	×
General Event VMNet Conditions Notes	
Send to VMNet remote	
VMNet Client1	
,	
OK Cancel Help	

With Send to VMNet remote checked the Set Routing Group event is routed to a VMNet server on the network by way of the selected client (see <u>VMNet</u>, <u>Project VMNet Settings</u>), and will not be executed on the local computer.

Set Routing Group Event Conditions

Setup event trigger conditions (see Event Conditions).

Set Routing Group Event Notes

Enter notes about event.

Set Routing Group Event Properties

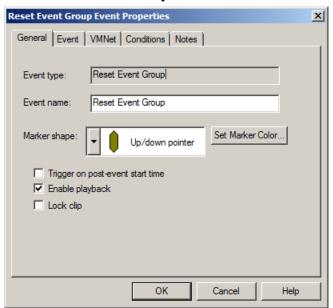
General Event VMNet Conditions Notes

Event Notes

OK Cancel Help

Reset Event Group Event

Resets all manual-mode event triggers of the specified group. (See Event Trigger Settings).



Reset Event Group Event General Properties

Event type:	Describes the event type. In this case it is a Reset Event Group event.
Event name:	The name of the event as it will appear in the status bar and in tool tips when the mouse cursor passes over the event.
Marker shape:	Select a desired shape for the event marker. Event markers are not resizable (as are audio clips and lamp effect clips) because they are executed at a specific instance in time rather than over a range of time.
Set Marker Color button	Choose a color for the marker. When event markers are first dragged into an event track they appear in a dark gray color. This indicates that the event has not yet been setup. After it has been setup, is assumes its proper color.
Trigger on post- event start time.	When this is checked, the event will trigger immediately if playback is started after the event. If unchecked, the event will only trigger at the event. Playback must start before or on the event.
Enable playback	Uncheck this box to prevent the event from triggering during playback.
Lock clip	Check this box to lock the clip onto the timeline. Locked clips cannot be moved or resized.

Reset Event Group Event Properties

Reset Event Group Event Properties	×
General Event VMNet Conditions Notes	
Reset group: 3	
Reset all groups	
OK Cancel Help	

Select the event group to reset, or reset all groups by checking the Reset all groups box..

Reset Event Group Event VMNet Properties

Setup VMNet remote event.

Reset Event Group Event Properties	×
General Event VMNet Conditions Notes	
Send to VMNet remote:	
OK Cancel Help	

With Send to VMNet remote checked the Set Router Preset event is routed to a VMNet server on the network by way of the selected client (see <u>VMNet</u>, <u>Project VMNet Settings</u>), and will not be executed on the local computer.

Reset Event Group Event Conditions

Setup event trigger conditions (see Event Conditions).

Reset Event Group Event Notes

Enter notes about event.

 Reset Event Group Event Properties

 General Event VMNet Conditions Notes

 Event Notes

 Event Notes

 OK
 Cancel

VM Telnet Event

Sends telnet messages through selected telnet client. (See <u>VMNet Telnet Clients</u>).

VM Telnet Event General Properties

VMTelnet Event Properties	×
General Event Conditions Notes	
Event type: VMTelnet Event name: VMTelnet Marker shape: Up/down pointer Set Marker Color	
 ☐ Trigger on post-event start time ☑ Enable playback ☑ Lock clip 	
OK Cancel He	əlp

Event type: Describes the event type. In this case it is a *VMTelnet* event.

Event name:	The name of the event as it will appear in the status bar and in tool tips when the mouse cursor passes over the event.
Marker shape:	Select a desired shape for the event marker. Event markers are not resizable (as are audio clips and lamp effect clips) because they are executed at a specific instance in time rather than over a range of time.
Set Marker Color button	Choose a color for the marker. When event markers are first dragged into an event track they appear in a dark gray color. This indicates that the event has not yet been setup. After it has been setup, is assumes its proper color.
Trigger on post- event start time.	When this is checked, the event will trigger immediately if playback is started after the event. If unchecked, the event will only trigger at the event. Playback must start before or on the event.
Enable playback	Uncheck this box to prevent the event from triggering during playback.
Lock clip	Check this box to lock the clip onto the timeline. Locked clips cannot be moved or resized.

VM Telnet Event Properties

VMTelnet Event Properties	×
General Event Conditions Notes	
Select Telnet client:: VMTelnetClient	
Command line:	
VideoStart 10:155	
Test	
OK Cancel Help	

Select the telnet client from the list of clients created in the <u>Project Telnet Settings</u> window. Then enter a command line that will be sent to the telnet server associated with the selected client.

VM Telnet Event Conditions

Setup event trigger conditions (see Event Conditions).

VM Telnet Event Notes

Enter notes about event.

Reset Event Group Event Properties	×
General Event VMNet Conditions Notes	
Event Notes	
OK Cancel Help	

Event Conditions

Event conditions let you specify a set of conditions that must be true for the event to trigger at the specified time. This powerful feature gives VenueMagic the ability to make decisions and take actions based on those decisions. Multiple conditions can be "stringed" together.

ocessed in o VARS.Attrac		Enable con	ditions: 🔽	
VARS.Attract				
	t1Cnt >= 3			Add
JS_1_BTN1	= 100			Edit
				Remove
				Move up
				Move down

Conditions	Lists textual descriptions of conditions (2 nd column) and a Boolean expression (1 st column) that specifies how the condition will be "compared" to the result of all the previous conditions.
Enable conditions	Check this box if the condition is to be used. If unchecked, the conditions is ignored and the event triggers normally.
Add	Add a new condition to the list. Brings-up the Event Condition Window.
Edit	Edit the selected condition in the list. Brings-up the Event Condition Window.

Remove Deletes selected conditions from the list.

Move up/down The position of a condition in the list is important, as the conditions are evaluated first to last, with each condition evaluated against the result of all prior conditions. Clicking these buttons will move the selected event up/or down in the list.

Event Condition Window

Event Condition	×
Comparison type Variable with constant Variable with variable	OK Cancel
Boolean operation: AND Value #1 source: VARS.Attract1Cnt	Select
Compare operation: >=	
Value #2 3	

A condition is simply a comparison between two numeric values. These values can either be a variable and a number, or two variables. A variable is defined here as any input available in the <u>Select External Control</u> window.

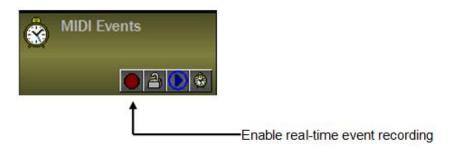
In the sample window above, a condition is setup that is only true after the <u>Variable Table</u> variable *AttractCnt1* is greater than or equal to 3. *AttractCnt1* was previously setup to be incremented by a <u>Set Variable Event</u> to count the number of times a specific timeline (perhaps a looped one) was run. This condition is *true* only after the timeline has run (or looped) 3 or more times.

Comparison type	Select whether the condition comparison is between a variable and a constant or between two variables.
Boolean operation	Once this condition has been evaluated, it will be applied to the other conditions in the list. The selections are:
	 AND – Result of <i>true</i> only if <i>this</i> condition is <i>true</i> and the result of all previous conditions in the list is <i>true</i>. OR – Result is <i>true</i> if this condition is <i>true</i> or the result of all previous conditions in the list is <i>true</i>, or both. XOR – Exclusive OR. Same result as OR operation except in the case where both this condition and the result of all previous conditions is true. In this case the result is <i>false</i>. NOP – No operation. Selecting this operation is a good way of removing a condition from the list without actually deleting it.
Value #1 source	Click select to bring-up the <u>Select External Control</u> window and select a variable to be compared.

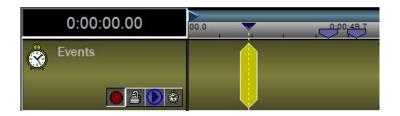
Compare operation	Select how the Value #1 is to be compared with Value #2. The choices are:		
	 - Value #1 is exactly equal to Value #2. - Value #1 is not equal to Value #2. - Value #1 is less than Value #2. - Value #1 is greater than Value #2. - Value #1 is less than or equal to Value #2. - Value #1 is greater than or equal to Value #2. 		
Value #2	If <i>Variable with constant</i> is selected as the comparison type, enter a number in this field for Value #2. If <i>Variable with variable</i> is selected, another select button will be available for selection of a Value #2 source using the <u>Select External Control</u> window.		
	Value #2 source: MIDI_01_NTOF_011 Select		

Real-time Recording of Events

VenueMagic will let you record cue button event triggers during playback. First, setup a cue button to trigger a VenueMagic event and check the *Recordable* box (see <u>Cue Button General</u> <u>Properties</u>). Next, enable recording for the desired event track by clicking on the Enable real-time event recording button.

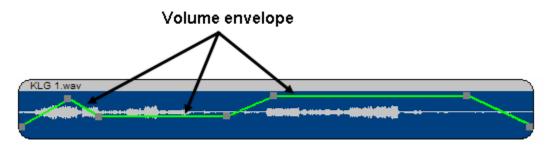


During playback, press the cue button and the event will trigger, but it will also be automatically dropped onto event track at the current time cursor position.



Envelopes

This section contains an overview of what envelopes are and how to use them. Details about specific envelopes are contained in other sections.



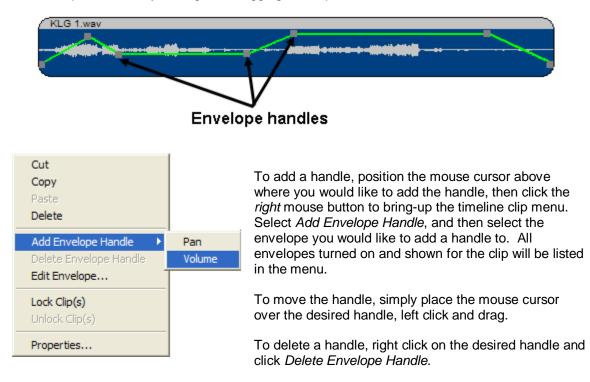
Envelopes allow you to adjust audio clip and lamp clip settings *during playback*. Envelopes can adjust:

- Volume/pan
- Sound effects settings
- Lamp level
- Lamp Effect settings

Envelopes are shown by default, unless the number of envelopes exceeds the maximum allowed for the track (see <u>Timeline Options</u>). Select which envelopes you would like to show in the <u>Audio</u> <u>Track Envelope Properties</u> and <u>Lamp Track Envelope Properties</u> windows.

Envelope Editing from the Timeline

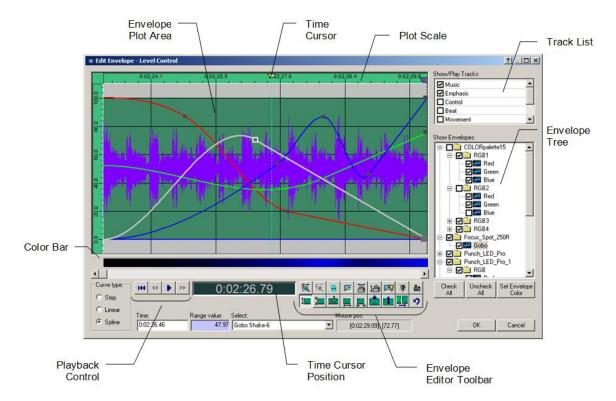
An envelope is edited by adding and dragging envelope handles.



Envelope Editor

Editing envelopes on the timeline is quick and easy for a limited number of handles. However it's cumbersome if you want to precisely place multiple handles in multiple envelopes. For more

sophisticated envelopes, VenueMagic provides a graphical envelope editor. Open the envelope editor by right-clicking on the desired clip and selecting *Edit Envelope*.



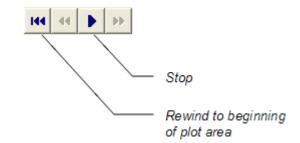
Envelope Editor Items:

Envelope Tree	 Lists all envelopes available to the clip. For an understanding of how the tree is organized, see Envelope Tree Organization. The tree functions as follows: Check the box beside the envelope(s) you wish to display in the <i>Envelope Plot Area</i>. Checking the box beside a folder will check everything inside the folder as well. Select an envelope to bring it to the front so that you can edit its handles. You can also do this by clicking on the envelope curve in the plot area. Select an <i>RGB</i> or <i>Position</i> folder to activate <u>Multi-Channel Handle Mode</u>. Select an envelope and click <i>Set Envelope Color</i> to set the color of an envelope curve. If the current clip is a Level Control lamp effect, then the envelope color will also be the color of the channel level line shown between clips. Click <i>Check All</i> or <i>Uncheck All</i> button to check or uncheck all off the envelopes in the tree, respectively.
Track List	Lists all tracks in the timeline. Check those tracks you wish to display in the background of the plot area. Select the track that you wish to be highlighted. Checked tracked are also played during playback in the envelope editor, while unchecked tracks are muted/disabled.
Plot Scale	Current position of time cursor. Can show time relative to clip or entire

timeline (see Envelope Editor Settings).

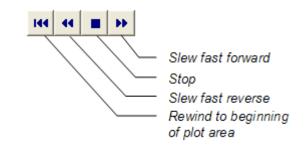
- Time CursorMarks current playback position. Move prior to playback to the position
where playback should start.
- Time CursorDisplays current position of the *Time Cursor* relative to the clip or entirePositionthe timeline (see Envelope Editor Settings).
- **Playback Control** Controls playback of the clip in the *Envelope Editor*.

While not in playback:



While in playback:

See Envelope Plot Area.

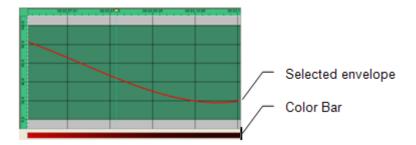


You can also play/stop by pressing the space bar.

Envelope Plot Area

Color Bar

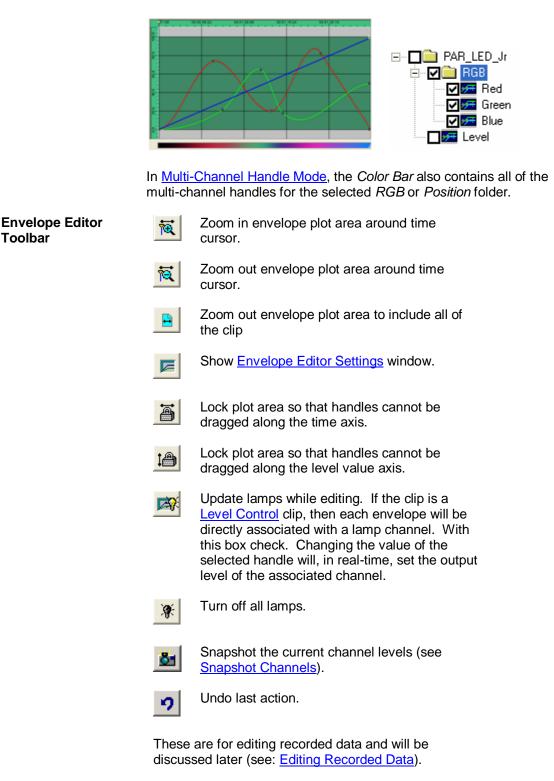
The Color Bar shows a color gradient representation of the currently selected envelope, the base color being that of the selected envelope itself.



If an RGB folder is selected, the Color Bar will show the color blend of

the Red, Green and Blue channels.

Toolbar

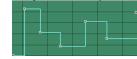




Envelope Editor Fields:

Curve type: Select the default curve type. Also sets the curve type for any selected handles. The following curve types are supported:

• Step: Stair-steps from one handle to the next.



• Linear: Connects each handle with a straight line.



• **Spline:** Connects each handle with a smooth curve.



- Time:Shows time of currently selected handle, referenced to the plot scale.
Changes as handle is dragged. For precise time settings, enter a time value
into the field and hit *Enter*. Enter the value in one of the following formats• seconds
 - seconds
 - mins:secs
 - hours:mins:secs
 - *hours:mins:secs:frames* (SMPTE)

The value will automatically be converted the current time display format as set in the <u>Envelope Editor Settings</u> window.

- Value: Value of currently selected handle. You can also enter a value into the field and hit *Enter*.
- Select: For envelopes associated with channels that select between multiple settings (see <u>Fixture Channel Types</u>) shows the current selection based on the handle value. You can select a setting in this box, which will cause the handle to move to the center of the selection range.
- **Mouse pos:** Current [*time*], [*value*] position of the mouse within the plot area.

Envelope Tree Organization

The Envelope Tree of the Envelope Editor is organized according to the following rules (see figures below for an example):

1. If the associated clip as Level Control lamp effect clip, then envelopes are organized by:

Fixture... Channel... Sub channel

 If the clip is <u>built-in lamp effect</u>, and some of the parameters have been configured to be set by envelope (see <u>Built-in Lamp Effect Settings Properties</u>), then the envelopes are organized by:

> .. Channel... Sub channel... Variation Type... Parameter

- 3. For Lamp Chaser clips, all envelopes are inside a folder called Chaser.
- 4. For <u>audio</u> clips, the *Pan* and *Volume* envelopes are at the top level, and any configured <u>sound effect</u> envelopes are organized by:

Effect...

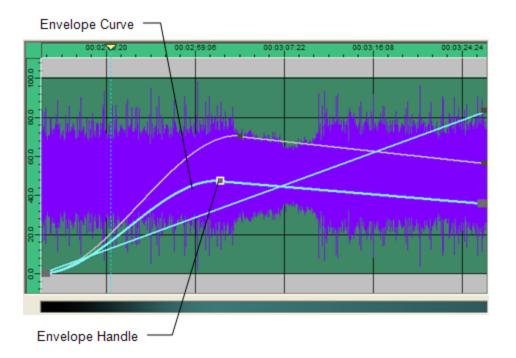
Effect Channel

Fixture...

Example Figures:



Envelope Plot Area



The Envelope Plot Area shows the following:

- Desired envelopes and handles when checked in the Envelope Tree.
- Elements of other tracks (audio graph, envelopes) for tracks checked in the *Track List*. Showing other tracks helps you synch the handles in this clip to what's going on in other tracks.

The Envelope Plot Area allows you to do the following:

- Click and drag an envelope handle to move it with the plot area.
- Double-click on an envelope curve to add a point to it.
- Right-click on an envelope and select *Delete Handle(s)* to delete it.
- Click anywhere in the plot area (except on a handle) and drag a selector box to select multiple handles. Then you can drag them all together.
- If the *Update lamps while editing* function is enabled sliding a handle up and down will affect the associated channel in real-time. (Functions only if clip is a <u>Level Control</u> lamp effect).

Additional rules and considerations:

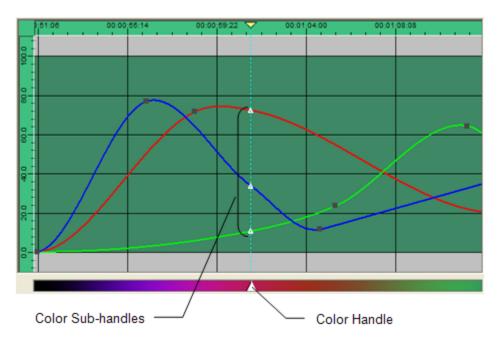
- A handle cannot be moved beyond the handles before and after it. This will be enforced even if multiple handles are selected.
- The first and last handles of a clip cannot be moved horizontally (along the time axis).
- The first handle of a Level Control envelope cannot be moved at all. This is because it's level is set by the last level of the previous clip, or, if there is no previous clip, by the level set in the Lamp Track Channel Settings window.

Note: If the desired envelope does not appear in the plot area, make sure that it has been checked in the envelope tree.

Envelope Editor Multi-Channel Handle Mode

The Envelope Editor enters *Multi-Channel Handle Mode* whenever an *RGB* or *Position* folder is checked and selected in the *Envelope Tree*. In this mode, you may add a multi-channel handle by right-clicking in the color bar and selecting *Add Color Handle*, if an *RGB* folder is currently selected, or *Add Position Handle* if a *Position* folder is selected.

In the following case, an *RGB* folder was selected and a *Color Handle* was added to the color bar.



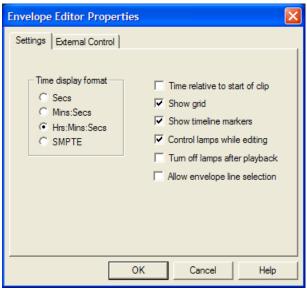
As seen in the figure above, adding a single handle to the *Color Bar* also added three additional color *sub-handles* to the *Red Green* and *Blue* envelopes in the plot area. Notice that these handles are triangular shaped rather then the square used by the normal envelope handles.

Click and slide the color handle left to right and the three sub-handles move with it. Now click and slide a sub-handle in the plot area. Note that you can only change its value by moving it up and down. You cannot change its time. These three sub-handles are locked together in the timeline and can only be moved with the sub-handle.

You can also select a specific color to be associated with the color handle. Right click on the color handle in the Color Bar and select *Edit Color Handle*. Then select the desired color. The value of each sub-handle will be changed in order to create the selected color.

The function of the handles and sub-handles is similar if a Position folder is selected, but only two sub-handles are created—one for Pan (or X) and one for Tilt (or Y). You will also notice that the *Color Bar* is black when a *Position* folder is selected.

Envelope Editor Settings



Time display formatSelect the format that time will be displayed throughout the envelope
editor.

Time relative to start of clip	Check this box to display envelope editor time relative the beginning of the clip. If unchecked, time will be shown relative to the entire timeline.	
Show grid	Uncheck to remove grid from plot area.	
Show timeline markers	Check to display timeline markers in envelope editor. Just as in the timeline, you may place the mouse cursor over the marker to display it's name, but you may not move, edit or delete them here. To move the time cursor to a marker, right click in the plot scale area and select Goto Marker, and then the desire marker.	
Control lamps while editing	If the clip is a <u>Level Control</u> clip, then each envelope will be directly associated with a lamp channel. With this box check. Changing the value of the selected handle will, in real-time, set the output level of the associated channel.	
Turn off lamps after playback	Check this box to have then Envelope Editor turn off all lamps after playback. If left unchecked, lamp levels remain as they are when playback stops.	
Allow envelope line selection	When this box is checked, an envelope may be selected by clicking on an envelope line in the envelope plot to. When unchecked, envelopes may be selected only from the envelope tree, or by clicking on an <i>envelope</i> handle in the envelope plot. Un-checking this box will help avoid inadvertently selecting the wrong envelope while adding handles.	

Envelope Editor External Control Properties

The VenueMagic Envelope Editor will allow you to set the value for an envelope point or color handle using external control.

Envelope Editor Properties	×
Settings External Control	
Enable external control	
Channel #1 (Level/Red/PosX) MIDI_07_CTRL_120	Select
Channel #2 (Green/PosY) MIDI_13_NTOF_057	Select
Channel #3 (Blue) MIDI_13_CTRL_062	Select
OK Cancel	Help

Enable external Check to enable external control of selected envelope handle(s). **control**

Channel #1	Click Select to bring up the <u>Select External Control</u> window, and select an external input to control Envelope Editor Channel #1. This will affect the currently selected envelope handle. If a handle is selected in the <u>Color Bar</u> , Channel #1 will affect the <i>Red</i> channel (for RGB channel types), or the <i>X</i> / <i>Pan</i> channel (for Motion XY / Motion PT channel types). (See: <u>Fixture Channel Types</u>).
Channel #2	Click Select to bring up the <i>Select External Control</i> window, and select an external input to control Envelope Editor Channel #2. This will only affect the <i>Green</i> channel (for RGB channel type) or the <i>Y</i> / <i>Tilt</i> channel (Motion XY or Motion PT channel types) of the selected <i>Color Bar</i> handle.
Channel #3	Click Select to bring up the <i>Select External Control</i> window, and select an external input to control Envelope Editor Channel #3. This will only affect the <i>Blue</i> channel (for RGB channel type).

Copying Envelopes & Envelope Handles

The Envelope Editor offers a variety of ways that you can copy and paste envelopes and envelope handles. You can:

- Copy selected handles in an envelope to another location in the envelope or into a different envelope.
- Copy Color Bar handles to another location on the Color Bar or on the Color Bar of another envelope group.
- Copy an envelope group (RGB or Position) to another compatible envelope group in the same fixture or a different one.
- Copy all envelopes from one fixture to another identical fixture.

To copy individual envelope handles:

- 1. Select the envelope you wish to copy handles from.
- 2. Select the handles you wish to copy.
- 3. Right-click on one of the selected handles and select Copy Handles.
- 4. Right-click on the envelope you wish to copy to at the location in time where you wish them copied at and select *Paste Handle at Cursor*.
- 5. OR right click on an envelope in the envelope tree and select *Paste Handles* to copy the handles to the same time as the new channels

Copying Color Bar handles functions similarly.

To copy an entire envelope or envelope group:

- 1. Right-click in the envelope tree on the envelope or envelope group (RGB or Position) you wish to copy select *Copy* [*name*] *Envelopes*, where **name** is the name of the envelope or envelope group you are copying.
- 2. Right click on the envelope or compatible envelope group you wish to copy to and select *Paste Envelopes from* [*name*].

To copy all of the envelopes in a fixture:

- 1. Right-click in the envelope tree on the fixture you wish to copy select *Copy* [*name*] *Handles*, where **name** is the name the fixture copying.
- 2. Right click on fixture you wish to copy to and select Paste Envelopes from [name].

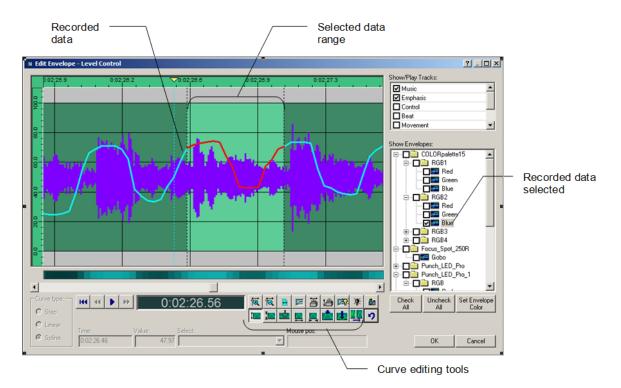
Intelligent Copy Buffering

Fixtures envelopes can only be pasted to a matching fixture. For example, if you copy all the envelopes in a *DJ Scan 250 EX*, you can only paste those envelopes to another *DJ Scan 250 EX*. The Envelope Editor will enforce this. However, the Envelope Editor also supports *intelligent copy buffering*. This means you can copy multiple fixture types into the copy buffer, one after another, and the copy buffer will keep track of all of them. When you attempt to paste to a fixture, the copy buffer is searched and if a matching fixture is found, you are given the option of pasting it. Envelope groups functions similarly, allowing you to paste RGB and Position envelope groups only other RGB and Position envelope groups, respectively.

Editing Recorded Data

(Only Available for VenueMagic DMX+Av and above)

Then Envelope Editor can also be used to edit recorded channel data (see <u>Real-time Recording</u> and Editing of Channels).



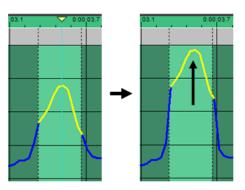
When recorded data is selected in the *Envelope Tree*, the appearance and behavior of the Envelope Editor changes somewhat. The first thing you will notice is that the curve editing tools, which are normally grayed-out, are now enabled. In order to edit the recorded data, you must select a range of data to edit. Do this by clicking and the left mouse button somewhere in the plot area and then holding the button down as you drag the mouse cursor to select a range. When you have selected the desired range, release the mouse button. After selecting the range, you can easily resize the range by clicking on and dragging either edge of the range. Click anywhere in the plot area outside of the range to deselect it.

Curve Editing Tools

The curve editing tools for recorded data are quite powerful. Below is a brief description of each tool, but the best way to understand them is to use them.

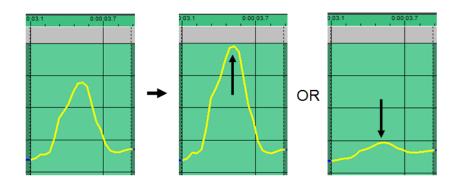


Move Level: Click and drag the selected range up and down.

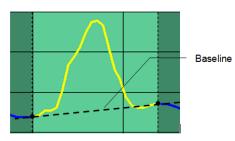




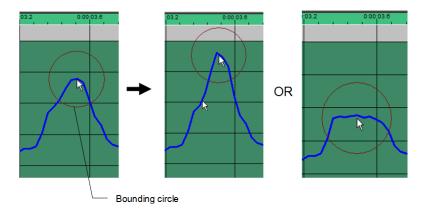
Stretch Level: Stretch the selected range. Stretching is relative to where you the mouse cursor is initially placed when the left button is clicked. The closer a point on the curve is to this initial point, the faster it will stretch when the mouse is moved.



Stretching is also affected by the proximity of the initial point to the baseline of the selected curve. The baseline is defined as the line that connects the endpoints of the curve at the edges of the selected range.



Drag Level: This tool drags curve points proportionally to the distance between the initial click point and a point on the curve, scaled within the range of a bounding circle. This tool does not require a selected range because the bounding circle selects which points in a curve will move.



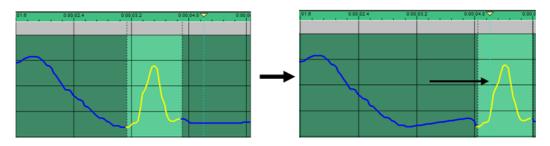
You can adjust the radius of the bounding circle by moving the mouse wheel or by entering a value into the *Drag radius* box just below the cursor time display. The *Drag radius* box is only visible when the *Drag Level* tool is selected.



The *Drag Level* tool is ideal for stretching part of a curve without affecting the rest of the curve.

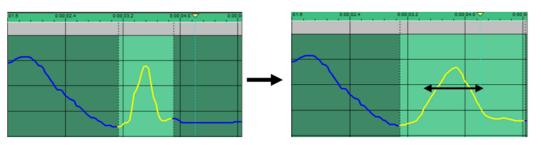


Move in Time: Moves the selected range in time.



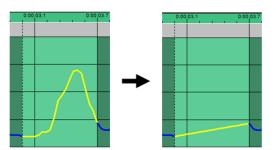


Stretch in Time: Stretch the selected range in time. The center of stretching is the initial point where the mouse was clicked to begin dragging.



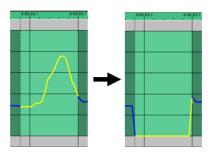


Flatten Curve: Flattens the curve along the baseline of the selected curve. (See Stretch Level toll above for and explanation of the baseline).



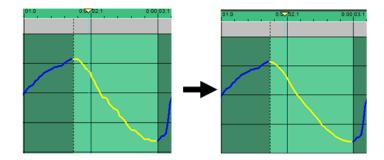
-	
	-
<u> </u>	

Set Curve To Constant: Sets all points in range to a specified constant.



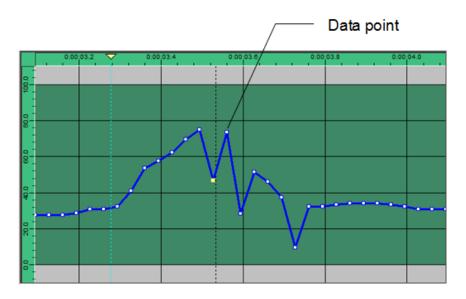


Smooth Curve: Smooth out the curve in the selected range. Clicking this button multiple times increases the smoothing.



Editing Individual Data Points

Expand the envelope plot range to maximum by clicking on the button until it grays-out. You will now see that the individual data points are visible in the plot. The curve editing tools equally apply to this view except that you can select and move data points individually.



Adjust Envelope Window

(Available in SC+ and above only.)

Right-click on a recorded envelope in the <u>Envelope Editor</u> and select *Adjust Envelope*... to bringup the *Adjust Envelope* window.

Adjust Envelope	×I
✓ Adjust Level R	
✓ Level Clipping	
✓ Adjust Time R -2 Shift (f) R 43.9 Scale (%)	
Filtering Image: R Image: R	
Digital Thresholds 74.7 Upper (%)	
Special Presets: Image: Special interval Mickey New Image: Special interval Mickey New Image: Special interval Chuck Save Image: Special interval Differentiate Delete	
Bypass Show time in frames Import Profile OK Cancel	

From this window you can adjust the current envelope or the selected section of it with more precision than the standard <u>curve editing tools</u>. Any change of settings is shown immediately in the *Envelope Editor*. All functions of the *Envelope Editor* are disabled while the *Adjust Envelope* window is open with the exception of the time cursor and the playback controls. This allows you to playback the envelope while changing settings on-the-fly.

The *Adjust Envelope* window will also import previously exported profiles as well as extract a profile from and audio .wav file (this is often referred to as a "Yak" function when it is used to extract an audio envelope from a file with dialog which is used to control mouth movements in an animatronics character).

Adjustments are made by either moving the associated slider, or by entering a number directly into the text entry field. Settings can be save in a list of presets that can be re-used.

On the right side of selected sliders is a set slider range button R that will open a window to let you set the desired range of the slider.

Set Gain Slic	ler Range		×
Min value:	10	1 - 5000	
Max value:	1000	1 - 5000	
		ОК	Cancel

Sliders without a R button have fixed ranges that cannot be changed.

Adjust Envelope Window Items Descriptions

Adjust Level	Check this box to enable level adjustment sliders: <i>Gain (%)</i> – Adjust the amplitude of the envelope by a percentage. <i>Offset (%)</i> – Adjust the horizontal position of the envelope by a level percentage. <i>Thresh (%)</i> – Adjust zero threshold. Any data below this value is zeroed out.
Level Clipping	Check this box to enable level clipping then adjust the <i>High (%)</i> and <i>Low (%)</i> values to cut-off the top and bottom of the envelope, respectively.
Adjust Time	Check to enable time adjustments: Shift (f/s) – Shifts envelope in time by the specified frames (f) or seconds (s). Select how time is displayed with the <i>Show time in frames</i> <i>checkbox</i> (discussed below). Scale (%) – Scale the time range by the specified percentage.
Filtering	Check to enable filtering: Smooth – Applies smoothing to envelope. Ranges from zero (no smoothing) to 10 (a lot of smoothing). Quantize (f/s) – Quantizes envelope by sampling the envelope at specified increments of frames/seconds and filling the space between samples with either a line or a step. Select Quantize to steps to fill in the space with steps, or Quantize to lines to fill it with lines. A value of zero disables quantizing.
Digital Thresholds	Check this box to convert envelope into a "digital" representation of the curve. Upper (%) – Selects the upper threshold level for digitizing. Where the original curve is above this point the output curve goes to 100%. Lower (%) – Selects the upper threshold level for digitizing. Going left to right, once the original curve reaches the specified Upper threshold and its output goes to 100%, the curve must drop below the Lower threshold level before it goes back to 0%. This effectively introduces a hysteresis effect. To eliminate the hysteresis effect, always set Upper and Lower to the same value.
Invert Level	Check this box to vertically invert the selected envelope.

Reverse Time	Check to invert the envelope left-to-right along the time axis.	
Differentiate	Performs a differentiation function to produce the derivative of the original curve. If the original curve plots position vs. time, the new plot will show velocity vs. time.	
Bypass	Check to bypass all settings. The original un-modified curve is shown in the <i>Envelope Editor</i> .	

Importing Profiles

Import profiles into the currently selected channel of the Envelope Editor by click on *Import Audio Profile*. (See <u>Importing Channel Data Profiles</u>).

Importing Audio Profiles

Import envelope of .wav audio file directly into the *Envelope Editor* without first having to create a profile from an audio clip. Click on *Import Audio File*, and then select the .wav file you would like to import. If the .wav file contains stereo audio, the Import Audio File window will appear.

Import Audio File	×
Import channels C Left C Right C Both C Mix (L+R)	Cancel

Select how you want the profile to be imported:

- *Left*: import just the left channel
- *Right*: import just the right channel
- Both: import both left and right channels as separate channels in the profile
- Mix: import the sum of the left and right channels into a single profile channel

Click Ok and the profile is imported to the envelope within the selected range.

Saving and Reusing Setting Presets

Once settings have been adjusted as desired for a particular envelope, they can be save under a *Settings Preset* and applied later onto other envelopes.

Click the **New** button to create a new Settings Preset and add it to the Presets list, then type in a name for the preset. Adjust the settings as desired, and then click **Save** to bring up the Save to Preset window.



Select the preset you wish to save to and click OK.

To apply an existing preset to the current envelope, select the desired preset in the *Preset* list and the new settings are applied immediately. Delete presets by selecting them in the Preset list and clicking **Delete**.

Important note: Be sure to save any changes to the current preset before selecting another preset, otherwise your changes will be lost.

Channel Data Profiles

(Available in SC+ and above only.)

VenueMagic gives you the ability to export and import *channel data profiles*. A channel data profile (also referred to simply as a "profile") is a file that contains a list of channels, by name, and a stream of data for each channel. These profiles can be imported for later use (described below).

Exporting Channel Data Profiles

Profiles can be exported from the following sources:

Audio Clips

Right-click on an audio-clip in a VenueMagic <u>timeline</u> and select *Export Audio Profile*. Enter a filename in the file dialog and click OK. If the audio clip is stereo, the *Export Audio Clip* window will appear.

Export Audio Clip	×
Import channels C Left C Right C Both C Mix (L+R)	OK Cancel

Select how you want the profile to be exported:

- Left: export just the left channel
- *Right*: export just the right channel

Both: export both left and right channels as separate channels in the profile

Mix: exports the sum of the left and right channels into a single profile channel

Click Ok and the profile is exported to the selected file. If the audio clip is mono, export will begin immediately after the export file is selected and the *Export Audio Clip* window is not shown at all.

Lamp Effect Clips

Right-click on a <u>lamp effect</u> and select Export Clip Profile, then select a file to receive the exported data. This will export all of the channels controlled by that clip along with an "image" of the output data for each channel.

Lamp Tracks

Right-click on <u>lamp track panel</u> and select Export Track Profile. This will export output data for the entire track into a profile.

Timelines

Export a profile file for the currently loaded timeline by selecting *Files* \rightarrow *Export Timeline Profile* from the main menu.

DMX Recorder

The DMX recorder can record DMX input or output and save it to a profile.

Importing Channel Data Profiles

Profiles can be inputted into <u>lamp tracks</u>, <u>level control</u> effects and <u>envelopes</u> (see also <u>Adjust</u> <u>Envelope Window</u>).

All profile imports will bring up the *Load Profile Channels* window, which is used to tell the import function which channels to import and where they will go.

					OK
Profile channel		Record channel	Profile channel		Cancel
ED4038.Selection		[070] DJ_Spot_250.Position.Pan			
ED4038.Speed		[071] DJ_Spot_250.Position.Tilt			Create
ED4038_1.RGB.Blue	A+a	[072] DJ_Spot_250.Color			Create
ED4038_1.RGB.Green		[073] DJ_Spot_250.Gobo			Single track
ED4038_1.RGB.Red	-	[074] DJ_Spot_250.Selection			O Multi tracks
ED4038_1.Selection		[075] DJ_Spot_250.PT_Speed			Mulu dacks
ED4038_1.Speed		[055] RGB1.RGB.Red			
WEMC1_1.Analog1	─ ─	[056] RGB1.RGB.Green	ED4038.RGB.Green		- Replace
WEMC1_1.Analog2		[057] RGB1.RGB.Blue	ED4038.RGB.Blue		channel names
WEMC1_1.Analog3	_ ←	[058] RGB2.RGB.Red	ED4038.RGB.Red		
WEMC1_1.Analog4		[059] RGB2.RGB.Green			Set Envelope Colo
WEMC1_1.Bass		[060] RGB2.RGB.Blue			
WEMC1_1.DigOut01		[001] ED4038.Selection			
WEMC1_1.DigOut02		[002] ED4038.Speed			
WEMC1_1.DigOut03		[003] ED4038.RGB.Red			•
WEMC1_1.DigOut04		[004] ED4038.RGB.Green			
WEMC1_1.DigOut05		[005] ED4038.RGB.Blue			
WEMC1_1.DigOut06	- *	[006] ED4038_1.Selection		-1	↓

The list on the *left* shows all of the profile channels included in the profile file. The list on the *right* shows all of the record channels available to receive the imported channel data. Drag channels you wish to import from the profile channel list over to the record channel list, and drop it on the channel you would like to import it to. To remove an imported channel from the recorded channel list, simply drag it back over to the profile channel list. Click OK to perform the importing.

Notice that as you drag a profile channel over to the recorded channel list, it is removed from the profile channel list. This is because you cannot import a single profile channel into more than one record channel.

The Load Profile Channels window is used with the following import functions:

Importing to Level Control Effects

Profiles can be loaded into selected channels in a *level control* effect (see <u>Level Control Setup</u> <u>Recording Properties</u>).

Importing to Envelope Editor

The Adjust Envelope Window can import profiles directly into envelopes in the Envelope Editor.

Importing to a Timeline

Profiles can be used to auto-populate a timeline with profile data with one or multiple channels per track. (see <u>Auto-populating a Timeline from a Profile</u>

Not all of the settings in this window are available to all import functions. The table below lists each button/setting, a description of its functions, and when it is available.

*	Moves all profile channels to record channel list, in order from top to bottom, filling in the unused record channels.
*	Move all profile channels back into the profile channel list.
→	Moves selected profile channels to record channel list, in order from top to bottom, filling in the unused record channels starting with the first selected record channel, if any.
+	Move selected profile channels back into the profile channel list. (Also accomplished by dragging).
↑ ↓	Moves a single selected profile channel up/down in the record channel list. (Also accomplished by dragging).
A∳a	Move all or selected profile channels to record channels, automatically selecting the best match for each based on the channel namesd.
Create	This setting is used only by the <u>auto-populate timeline</u> function. The options are: Single track – imports all channels into a single lamp track. Multi tracks – imports each channel into its own lamp track.
Replace channel names	Check this box if you wish each fixture channel name to be changed to match the name of the profile channel being imported into it.
	Available only with auto-populate timeline function.
Set Envelope Color	Click this button to select the envelope color of all imported profiles.
	Available only with auto-populate timeline function.

Auto-populating a Timeline from a Profile

(Available in SC+ and above only.)

You can use a channel data profile to automatically populate a timeline with tracks and level control effects. From the main menu, select *Insert* \rightarrow *Lamp Tracks from Profile*. After selecting a file to import, and setting up the channel mapping in the <u>Load Profile Channels</u> window, VenueMagic will automatically perform the following functions:

- 1. Required lamp tracks are added to the timeline, either one for each channel or one for all channels, depending on what was specified in the *Load Profile Channels* window.
- 2. Required fixture channel(s) are added to new lamp track(s).
- 3. A <u>level control effect</u> is added to each new lamp track.
- 4. Profile data is loaded into level control effects as specified in the *Load Profile Channels* window.

Recording DMX Input/Output Data to a Profile

(Available in SC+ and above only.)

VenueMagic will let you record DMX input from and <u>DMX input device</u> or the DMX output from a timeline playback, and put it into a <u>profile</u> file. In the Main Menu, select *Tools* \rightarrow *Record DMX* to bring up the *Record DMX* window.

Recording DMX Input

Record DMX		×
Select source	Select record channels: Cou	int 6
Default DMX input	Channel Name	
C VenueMagic DMX output	DMXIN_001	
S Vendenlagic DHX output	DMXIN_002	
Output to universe 1	DMXIN_003	
Synch to editor	DMXIN_004	
Synch to editor	DMXIN_005	
Description:	DMXIN_006	
Enter a description for the recorded data (up	DMXIN_007	
to 255 characters).	DMXIN_008	
	MXIN_009	
Record time	DMXIN_010	
00:00:00:00	DMXIN_011	•
	Check All Uncheck All	Close

Under *Select source*, select the *Default DMX input* option to setup recording from the default DMX input into a profile. This option is only available if a DMX input has been configured in the <u>DMX Device Setup</u> window.

Next, select the DMX channels you would like to record by checking the corresponding box in the Select record channels list.

If you wish to route DMX input to its corresponding DMX output channels, check the *Output to universe* box, then select the universe you would like to output to. Output will be sent to the device setup for that universe in the <u>DMX Device Setup</u> window.

The *Description* field can be filled with any text up to 255 characters. This text is what is displayed in the Description field at the top of the *Load Profile Channels* window.

Recording DMX Output

Select *VenueMagic DMX output* as the source if you would like to record DMX output generated by VenueMagic.

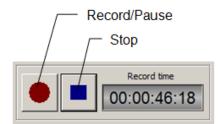
Record DMX		X
Select source	Select record channels:	Count 4
C Default DMX input	Channel Name	▲
VenueMagic DMX output	[001] ED4038.Selection	
vendemägic DMX output	[002] ED4038.Speed	
Output to universe	[003] ED4038.RGB.Red	
Synch to editor	[004] ED4038.RGB.Green	
Synch to editor:	[005] ED4038.RGB.Blue	
Description:	[006] ED4038_1.Selection	
Enter a description for the recorded data (up	[007] ED4038_1.Speed	
to 255 characters).	[008] ED4038_1.RGB.Red	
	[009] ED4038_1.RGB.Green	
Record time	[010] ED4038_1.RGB.Blue	
00:00:00:00	[020] ED2300.Flash	•
	Check All Uncheck All	Close

The Select record channels list will list all of the DMX fixture channels assigned to the current project, by name, preceded by the associated DMX channel in square brackets (i.e.: "[001]"). Check the box next to the channels you wish to record.

Check the *Synch to editor* box if you're primarily interested in synching to the playback of a timeline. In this mode, starting recording will also start playback of the timeline currently being edited at the current position of the time cursor. The recorder will also record time information directly from the timeline rather than use its own clock. Stopping or pausing recording will also have the same affect on timeline playback.

Record Controls

Actual recording of DMX is managed by the record controls *Record*, *Pause* and *Stop*. The *Record time* window shows the current record time in *hours:minutes:seconds.hundreths* format.



Starting Record

Recording starts immediately when the **Record** button is clicked. The **Record** button then turns into the **Pause** button. If Synch to editor is checked, the timeline currently in the editor begins playing, starting at the last time cursor position.

When recording starts, the *Record time* is reset to zero, turns green and begins running forward to report the current time as it is being recorded in the profile. If *Synch to editor* is selected, *Record time* will not reset to zero, but will instead show the current playback time of the timeline currently being edited.



Pausing Record

To pause recording, click on the *Pause* button (formerly the Record button). This will stop the *Record time* which starts flashing between gray and green until recording is resumed or stopped. The *Pause* button also turns back into the *Record* button, which can be clicked to resume the recording.

Stop Record

Click the **Stop** button to stop recording. This will bring-up a file browser so that you can tell VenueMagic where to store the recorded profile.

Importing Profiles from ASCII Text Files

VenueMagic can import profiles from and ASCII text file that conforms to a specific format. This makes it possible to input show data created by other software. This is done by selecting "Text File" as the file type in the file browser when you are selecting a file to import. The text file must adhere to the sample format below:

```
* Sample VenueMagic ASCII-based Profile File
* An asterisk as the first character in the line denotes a comment
**********
* *** The following two lines must be included.
* *** FILE VERSION must be 1.0.
* *** DESCRIPTION can be anything up to 254 characters
FILE VERSION(1.0)
DESCRIPTION ("Export of Lamp Effect: [Level Control]")
* This section associates channel numbers with channel names.
* Channel names can be arbitrary strings, channel numbers should be sequential
*****
CHANNEL(0, "BOC.Power")
CHANNEL(1, "BOC.Dimmer_Strobe")
CHANNEL(2, "BOC2.RGB.Blue")
CHANNEL(3, "BOC2.RGB.Green")
CHANNEL(4, "BOC2.RGB.Red")
CHANNEL(5, "BOC2.ServoC.Motion")
CHANNEL(6, "BOC2.ServoA.Motion")
*****
* This sections contains all of the channel data.
* TIME(s) specifies time in seconds and applies to all channel "events" that follow
* Channel events are of the format (channel, level %).
* List must start with "PROFILE START and end with "PROFILE END"
*****
PROFILE START
      (0, 0)
      (1, 0)
      (2,0)
      (3, 0)
      (4,0)
      (5, 0)
      (6,100)
      TIME (0.0333333)
      (0, 0)
      (1, 0)
      (2,0)
      (3,0.0820137)
      (4,0)
      (5, 0.0527208)
      (6,99.8963)
```

```
TIME(0.0666667)
        (0, 0)
        (1, 0)
        (2, 0)
        (3,0.323193)
        (4, 0)
        (5,0.208095)
        (6,99.5909)
        TIME(0.1)
        (0, 0)
        (1, 0)
        (2,0)
        (3, 0.716246)
        (4, 0)
        (5, 0.46194)
        (6, 99.0921)
PROFILE END
```

Synching VenueMagic Timelines to an External Clock Source

(Available in DMX+AV and above only. Some features available only in SC+)

VenueMagic can sync a timeline to an external clock source. The following items are synched in a frame-accurate manner:

- All lamp tracks.
- All event track triggers.
- All audio start and stop times.
- All video start and stop times.

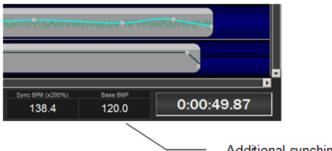
VenueMagic will not scale the playback speed of audio or video files. Only their stop and start times are affected. When an audio or video clip is triggered, it will run at real-time based on the VenueMagic main clock regardless of what the sync source is doing with the exception of the following:

- 1. If the Hold option is selected in the <u>Timeline Synching Options</u> window, audio and video playback for the timeline will hold when the external clock source stops or drops out.
- 2. Random jumps of the sync clock of more than +/- 1-2 seconds will restart audio and video at the new time.

Lamp chasers that are set to sync to the beat tapper or external control will not be affected by external sync clock.

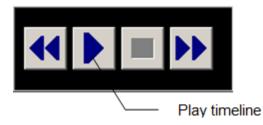
Synching is setup for individual timelines in the <u>Timeline Synching Options</u> window. Once setup, you can enable synching from the main menu by selecting *Timeline* \rightarrow *Enable External Sync*, or by

clicking on the synching is enabled, the timeline. When synching is enabled, the timeline control panel will change to show additional information specific to the type of sync chosen, as shown below.



Additional synching information

To start synching, click the timeline play button.



You can also assign a synched timeline to a <u>cue button</u>. Synching starts when the cue button is triggered.

There are no sync settings on the project level. External synching of Playlists is not currently supported.

VenueMagic timelines are can be synched to the following external sync clock sources:

Beat Tapper	Sets the speed of timeline playback using the <u>Beat Tapper</u> based on a specified BPM.
External Input	Setup an external input (slider, etc) to control the speed of playback.
MIDI Clock	Sync to another midi device or application using a MIDI Clock signal.
MIDI LTC	Sync to another midi device or application using the MIDI Linear Time Code signal.
SMPTE Over Serial	Sync to ASCII-based SMPTE received over a serial port.
VMNet Sync	Sync to another VenueMagic timeline running as a <u>VMNet Time</u> <u>Code Source</u> on the network.

Synching to Beat Tapper

This allows synching to the VenueMagic <u>beat tapper</u>. This is for adjusting the speed of playback only. It will not attempt to match the actual position of beats as in <u>Lamp Chasers</u>.

Beat Tapper Sync	Settings	2	×
Base BPM:	120	ОК	
Beat scaling (%):	100	Cancel	

Base BPM	The base beats per minute from which playback speed is determined. For example, if this value were set to 120 BPM, when the beat tapper shows 240 BPM, the timeline would be running at twice normal speed.
Beat scaling (%)	This is an addition scaling factor that can be applied to timeline playback speed after the beat tapper/base BPM calculation. By default, this is 100%, which has no effect. A value of 50% cuts playback speed—based on the beat tapper and base BPM setting—by on-half.

When sync is enabled, the timeline control panel adds additional synching information:

andre valet at 1400 and a again	And the first that a station	NANATA MARY TANA A SA ANA
Sync BPM (x200%) 138.4	Base BMP 120.0	0:00:49.87
Sync BPM (X%)	Current va	alue of the beat tapper. X is the value in

Base BPMThe base beats per minute from which playback
speed is determined. For example, if this value
were set to 120 BPM, when the beat tapper shows
240 BPM, the timeline would be running at twice
normal speed.

Synching to External Input

An external input such as a slider control may be used as a playback speed control for a timeline.

External Input Sync Settings	×
External input source:	ОК
JS_1_VPOS	Cancel
Select	
Range min (%): 0 Range max (%): 100	

External input source	Click the <i>Select…</i> button and chose an <u>external</u> <u>input device</u> to control the timeline playback speed.	
Range min (%) Range max (%)	Since external inputs normally return values ranging from 0-100%, it is necessary to "rescale" that range if we desire to adjust the timeline speed to a value greater than 100%. Use the Range min (%) and Range max (%) settings to do this.	
	Example: if Range min were set to 50% and Range max to 100%, then the 0% setting on and external input (i.e.: if a slider is set to zero position) would correspond to 50% playback speed, and 100% on the external control would correspond to 200% playback speed.	

When sync is enabled, the timeline control panel adds additional synching information:

	· · · · · · · · · · · · · · · · · · ·	
Speed Factor		
100.0%	0:00:49.87	

Speed Factor

Percentage of real-time speed timeline is currently running at. 100% = normal time.

Synching to MIDI Clock

You can sync a VenueMagic timeline to an MIDI device or application that can send MIDI Clock messages.

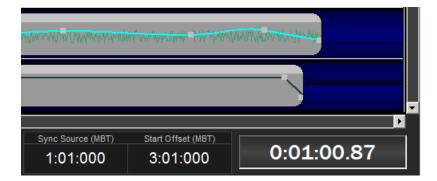
HIDI Clock Sync Se	tup		1
MIDI input device:	Turtle Beach	USB MIDI 1x1 💌	(OK)
Base BPM:	120		Cancel
Time signature:	4 - Top		
	4 V Bott	tom	
Start beat (M:B:T):	1:01:000	-	
Sync to:		Start synch on:	
MIDI Clock (24	1 ppq)	MIDI Start message	e
C MIDI Tick (10	mSec)	C First MIDI Clock m	essage

MIDI input device	Select from currently connected MIDI input devices from which to receive the MIDI Clock message.
Base BPM	The base beats per minute for the MIDI Clock message. This should match the BPM setting in the MIDI device or application sending the clock. You should also set the Base BPM for the timeline to the same value (see <u>Timeline Options</u>).
<i>Time signature (top and bottom)</i>	Enter the time signature associated with the clock. These settings should match the settings in the MIDI device or application sending the clock. You should also set these values for the timeline to the same value (see <u>Timeline Options</u>).
Start beat (M:B:T)	Enter the start beat in measures, beats and ticks. When synching has begun, the timeline will not start until this neat is reached.
Sync to:	 Select the type of clock message to sync to: <i>MIDI Clock</i>: Midi clock signal which is sent by MIDI device at a rate of 24 pulses-per-quarter note. <i>MIDI Tick</i>: Syncs to MIDI time tick which is sent by the MIDI device at a rate of 10 milliseconds. For most applications, the default setting <i>MIDI</i>
	Clock is used.
Start sync on:	Select what starts synching: <i>MIDI Start message</i> : Most sequencers generate a MIDI <i>Start</i> message before sending <i>Clock</i> messages. This allows slave devices to prepare

for synching. With this option selected, VenueMagic will wait for a Start message before it begins synching. *First MIDI Clock message*: Some software does not send a MIDI *Start* first, but goes right into sending *Clock* messages. Select this option and VenueMagic will start synching on the first *Clock* message after the timeline is started.

The best way to determine the best option for the sync source you're using, use the <u>MIDI Monitor</u> to watch what the sync source is doing.

When sync is enabled, the timeline control panel adds additional synching information:



Sync Source (MBT) Current sync time based on MIDI clock counts. When the timeline play button is pressed, this field will flash green until MIDI clock signals are received, at which time it will remain solid green.

Sync Source (MBT)	Start Offset (MBT)
1:01:000	1:03:000

Start Offset (MBT)The start offset entered into the Start offset
(M:B:T) field above. When the MIDI clock signals
are being received, this field will flash green until the
Sync Source has reached this value, at which time it
will remain solid green.

How MIDI Clock Synching Works

There are essentially five MIDI messages sent by your MIDI device or application that the VenueMagic timeline will respond to.

Song Position	Commands a start position for playback within the song. VenueMagic will respond by moving the time cursor to the designated time.
MIDI Start	Indicates that synching is to begin at time=0. Immediately followed by a MIDI Clock message

MIDI Stop	Indicates that synching is to stop. No clock messages are received afterwards until a MIDI Start or MIDI Continue is received.
MIDI Continue	Sent to start synching after a Song Position message is sent. Acts the same as MIDI Start, except playback is not rest to time=0. Followed immediately by a MIDI Clock message.
MIDI Clock	Sent by controlling device at a rate of 24 pulses per quarter note. VenueMagic uses the BPM and time signature settings to calculate beats, measures and ticks.

As soon as the timeline play button is pressed, the time cursor is set to zero, and VenueMagic waits for either a Song Position or MIDI Start message, at which time it will take the appropriate action as described above.

Synching to MIDI LTC

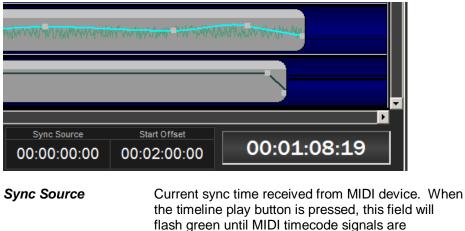
You can sync a VenueMagic timeline to an MIDI device or application that can send MIDI Linear Time code messages.

MIDI LTC Sync Setup		
MIDI input device: Start offset:	Turtle Beach USB MIDI 1x1	OK Cancel
	,	

MIDI input device	Select from currently connected MIDI input devices	
	from which to receive the MIDI LTC messages.	

Enter the start offset in hours:minutes:seconds:frames. When synching has begun, the timeline will not start until this value has been reached.

When sync is enabled, the timeline control panel adds additional synching information:



received, at which time it will remain solid green.



Start Offset The start offset entered into the Start offset field above. When MIDI LTC messages are being received, this field will flash green until Sync Source has reached this value, at which time it will remain solid green.

How MIDI LTC Synching Works

When the timeline play button is pressed, start waiting for MIDI LTC quarter frame or full frame messages, at which time it begins synching to the time code messages. If the time code suddenly jumps more than 1 second in either direction, the timeline will move to the new time and resume playing.

Synching to SMPTE over Serial

(VenueMagic SC+ and above only)

VenueMagic timelines can sync to SMPTE time code received in ASCII format over a serial port from a SMPTE reader. VenueMagic does not decode audio SMPTE stripes.

Setup Serial SMI	РТЕ		×
Serial port:	Prolific USB-to-Serial Comm Port (CC	M28)	ОК
Format string:	{???????}{hh}{mm}{ss}{ff}%	Termination [CR]	Cancel
Frames/sec:	30 no-drop	Reset	
Start time offset:	01:24:24:04	00:00:00:00	Start Test

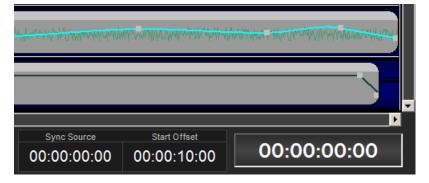


Select the list of currently available serial communications ports (see . <u>Serial Port</u>

Input/Output.

Format string	Defines the ASCII format that VenueMagic expects to receive. Once you have determined the output format of your SMPTE reader, see <u>Setting Up</u> <u>SMPTE Format Strings</u> to determine what should go in this field. To reset format string and termination string to factory defaults, click <i>Reset</i> .
Termination string	The character(s) VenueMagic should look for to indicate a termination. This information is available in the manual of your SMPTE reader. For information on how to enter control character, see <u>Serial Event Properties</u> .
Frames/sec	Select the frame rate mode: 24, 25, 30 and 30-drop. VenueMagic does not automatically detect SMPTE frame rates. You should set the SMPTE fps mode in the <u>Timeline Options</u> window to the same value
Start offset	Enter the start offset in hours:minutes:seconds:frames. When synching has begun, the timeline will not start until this value has been reached.
Start Test	Click this button to test SMPTE input. If the SMPTE device is properly connected and sending SMPTE strings, and if the Format string and Termination string have been properly set, the adjacent time display will display SMPTE code as it is received. If VenueMagic encounters a problem decoding the SMPTE string, "ERROR" will appear in this box.
	This usually means that the format or termination string is incorrect. It could also mean that the serial connection is not clean. Use the <u>Serial Input</u> <u>Monitor</u> to verify that the SMPTE code is being delivered properly.

When sync is enabled, the timeline control panel adds additional synching information:



Sync Source Current sync time received from SMPTE reader.

When the timeline play button is pressed, this field will flash green until time code is received, at which time it will remain solid green.



How Synching over Serial SMPTE Works

Since VenueMagic does not decode audio SMPTE stripes, this must be done by an external device (such as an ESE SMPTE time code reader). The decoded data is output via an RS232 port and received by VenueMagic.

Synching starts when the timeline play button is pressed. If the time code suddenly jumps more than 1 second in either direction, the timeline will move to the new time and resume playing.

Setting Up SMPTE Format Strings

VenueMagic uses a simple syntax to define how SMPTE time code should be interpreted. Here is a summary:

1. Characters inside curly braces (i.e.: {}) are interpreted as data using the following codes:

Н	Indicates a "hours" digit. The string "{HH}" would tell VenueMagic to expect a two-digit decimal value that represents SMPTE hours.
М	Indicates a "minutes" digit. The string "{MM}" would tell VenueMagic to expect a two-digit decimal value that represents SMPTE minutes.
S	Indicates a "seconds" digit. The string "{SS}" would tell VenueMagic to expect a two-digit decimal value that represents SMPTE seconds.
F	Indicates a "frame" digit. The string "{FF}" would tell VenueMagic to expect a two-digit decimal value that represents SMPTE frames.
?	Identifies a character that can be anything. The string "{????}" specify that these five characters in the string can be anything, and should be ignored.

- 2. Characters inside parenthesis (i.e.: ()) indicate that this character can be one of several different characters that should be treated the same. Example: "(:;.)" that VenueMagic should expect either a colon (:), semi-colon (;) or period (.).
- 3. All other characters specify what VenueMagic should expect at that position in the string.

4. Terminate the format string with the percent (%) character.

Example: The string below would tell VenueMagic to expect two *hours* digits, followed by a colon, then two *minutes* digits, a colon, and then two seconds digits followed by either a colon, semi-colon, or period. This is followed by two frame digits.

```
{hh}: {mm}: {ss} (:;.) {ff} %
```

VMNet Synch

A VenueMagic timeline can sync to another VenueMagic timeline running on a different computer connected to the internet. This feature provides unlimited possibilities as one might guess. The timeline to be synched to must first be designated a <u>VMNet Time Code Source</u> by checking the *Broadcast VMNet sync* box in the <u>Timeline Synching Options</u> window.

Then setup the timeline to be synched in the VMNet Sync Setup window below.

VMNet Sync Setup		×
VMNet sync channel: Start offset:	1 ×	OK Cancel

VMNet Sync Channel	Must be set to the same channel as the source timeline.
Start Offset	The start offset entered into the Start offset field above.

Playlists



Playlists let you create lists of timelines and audio files for sequential playback.

Playback List

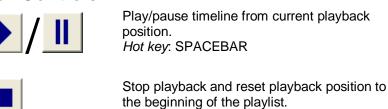
Drag <u>timelines</u> and audio files from their respective folders in the <u>Project Window</u> into the *Playback List*. Drag Playlist items within the list to change their playback order. Items may be reorganized during Playback if their status column reads "Waiting" (see *Status* below). The Playback List includes the following columns:

Start time	The starting time for the playback of this item, relative to the start of the Playlist. This values is automatically set to provide sequential playback of all items in the list. It is calculated based on the length of the clips and any overlap you may specify (see <u>Playlist Clip Playback</u> <u>Properties</u>).
Clip title	The name of the clip. By default this is the name of the timeline or audio file. You may change the displayed name in the <u>Playlist Clip General Properties</u> window.
Length	Length of the clip. This value is takes into consideration the actual length of the song and any time removed from the beginning and/or ending of it (see <u>Playlist Clip</u> <u>Playback Properties</u>).
	Note: If the clip item is a timeline that is has been edited since this Playlist was last loaded, then, after saving the timeline file, reload the Playlist by right-clicking on the Playlist in the <u>Open Files List</u> and select <i>Reload file</i> .
Time	Current playback time relative to the start of the clip.

Time remaining	Current time remaining in the playback of this clip.		
Status	The current playback status of the clip. Can be one of the following: Waiting: Item is waiting to be played. 		
	• <i>Fading in</i> : Item is fading in.		
	Fading out: Item is fading out.		

- *Playing:* Item playing.
- Paused: Item has been paused.
- *Next up:* Item is next in line to be played.
- **Done:** Item has completed playing.

Playback Controls



Move to the beginning of the currently playing item. If playback is less than 2 seconds into the song, moves to the beginning of the previous item.

Move to the beginning of the next item.

Playlist Toolbar



Playback Position Control

Drag this slider to position playback of currently playing clip.

Playlist Playback Time Display

Displays the current playback position of the Playlist.

Playlist Audio Level Display

Graphically shows the audio levels of the playlist during playback.

Playlist Display Format Options

Playlist Options		×
Default Clip Opti Display Format	ons External C Playback Audio	Control Lamps
Column Start time: Length: Time: Time remaining:	Time Format Hrs:Mins:Secs Mins:Secs Mins:Secs Mins:Secs Mins:Secs	
Time display format:	Hrs:Mins:Secs Cancel Apply	Help

Select the time display format for each column in the playlist. The Time display format box selects the display format for the <u>Playlist Playback Time Display</u>.

Playlist Playback Options

Playlist Options		×
Default Clip Options	External C	Control
Display Format Playback	Audio	Lamps
Play in a loop		
Clip end warning		
Time before end: 10		
Name in Cuelist: Playlist1		
OK Cancel	Apply	Help

- Play in a loop Play entire playlist in a loop.
- **Clip end warning** Check this box to make a clip flash yellow as it approaches the end of its playback time.
- **Time before end:** Enter how many seconds before the end of playback the clip should start flashing yellow.
- **Name in Cuelist:** Enter the name that will appear in the *Cue* column of the <u>Cue List</u> while the Playlist is being played.

Playlist Audio Options

Playlist Options	
Default Clip Options Display Format Playback	External Control Audio Lamps
Volume level scaling:	100%
Enable active time synchroniz	auori
OK Cancel	Apply Help

Volume level scaling	Move the slider to set the main volume level for the playlist (0% - 100%).
Enable active time synchronization	When enabled (default) VenueMagic will actively adjust the playback speed of currently playing audio clips to make sure that the audio stays in sync with master playlist clock. This can, in rare situation, cause an undesirable "warbling" effect in the audio output. If this is the case for a given timeline, then uncheck this box. However, by doing so, you run the risk of lamp effects getting slightly out of sync with the audio (usually less that a second). If lamp synchronization is not an important issues then disable this feature.

Playlist Lamp Options

Playlist Options			X	
Default Clip Op Display Format	tions Playback	External C Audio	Control Lamps	
Lamp level scaling:				
Tum off lam	ps after playback			
ОК	Cancel	Apply	Help	

Lamp level scaling

Set the lamp brightness level scaling for the playlist (0% - 100%).

Turn off lamps after playback When checked, all playlist lamps are set to level zero at the end of playback. Unchecked, lamps remain at last level when playback ends. Note: only Dimmer and RGB channels are affected by this feature. All other channel types will remain unchanged (see <u>Fixture Channel Types</u>).

Playlist Options	×
Display Format Playback Default Clip Options	Audio Lamps External Control
Remove from start: 15	secs Reset
Verlap last clip:	secs
✓ Fade in: Length (secs):	5
Fade out: Start offset from end (secs):	5
Length (secs):	3
OK Cancel	Apply Help

Playlist Default Clip Properties

This window sets up the defaults for the properties that come up in a new clip in the *Playlist Clip Playback Properties* window (see <u>Playlist Clip Playback Properties</u> for an explanation of field items). Click Reset to restore these settings to their original values.

Playlist External Control Options

This dialog window lets you configure a Playlist's <u>playback controls</u> to be controlled externally (i.e. MIDI device or \underline{VCS}).

Playlist Options	X
Display Format Playback Default Clip Options	Audio Lamps External Control
Trigger Play on external source MIDI_01_NTON_006	Threshold %: Select 50
Trigger Stop on external source MIDI_09_ATCH_103	Threshold %: Select 50
 Trigger Move Next on external se MIDI_15_NTOF_070 	ource Threshold %: Select 50
✓ Trigger Move Previous on extern MIDI_13_CTRL_112	al source Threshold %:
OK Cancel	Apply Help

Trigger Play on
external sourceCheck this box to enable external control of the Playlist's Play button.
Click on the adjacent Select... button and choose an input source in the
Select External Control window. Since external controls input
percentage values, enter into the Threshold field the level the external
input will have to send in order to trigger the button. See Understanding
Threshold Values.

Trigger Stop on external source	Identical in operation to the <i>Trigger Play on external source</i> function.
Trigger Move Next on external source	Identical in operation to the <i>Trigger Play on external source</i> function.
Trigger Move Previous on external source	Identical in operation to the <i>Trigger Play on external source</i> function.

Playlist Notes

Enter notes about Playlist.

Playlist Options	×
Display Format Playback Audio Lamps Default Clip Properties External Control Notes	
Playlist notes	
OK Cancel Apply Help	

Playlist Clips

Double-click on a clip item in the <u>Playback List</u> to bring-up the *Clip Properties* window.

Playlist Clip General Properties

Clip Properties	X
General Playback Levels Notes	
Title: VM Demo 1b.mp3	
File: C:\Documents and Settings\Owner\My Documents\VenueMagic\AudioLib\VM Demo1b.mp3	
OK Cancel Apply Help	

- Title:The title of the clip as it appears in the <u>Playback List</u>. Changing this does not
change the name of the file.
- File: The directory path and filename of the actual clip file.

Playlist Clip Playback Properties

Clip Properties			
General Playback	Levels Notes	1	
Remove from s	start: 15	secs	Reset
Remove from e	end: 15	secs	
🔽 Overlap last cli	p: 1	secs	
▼ Fade in:	Length (secs):	5	1
I Fade out:	Start offset from end (secs):	5	1
	Length (secs):	3	
ок	Cancel	Apply	Help

Remove from start:	Check this box to remove a section from the beginning of the clip, and enter how many seconds to remove.
Remove from end:	Check this box to remove a section from the end of the clip, and enter how many seconds to remove.
Overlap last clips:	Check this box to start playback of this clip while the previous clip is still playing. Enter the desired number of seconds of overlap. If this is the first clip, or if the previous item was a <i>Silence Block</i> or a <i>Wait Block</i> , then this box will be disabled.
Fade in:	Check to fade in the clip when playback starts. Then enter how many seconds of fade in into the <i>Length</i> field. Overlap this with a fade out of the previous clip to create a dissolve effect between clips.
Fade out:	 Check to fade out the clip at the end of playback. Then fill in the fields: Start offset from end: How many seconds from the end of the clip will fade out begin. Length: The length of the fade out in seconds.

Note: It is possible to enter values in these fields that will contradict each other. An example of this is when the *Start offset from end* value is less than the fade out *Length* value. If contradicting values are entered, VenueMagic will detect it and alert you with the message:

VenueM	agic 2.0 🔀
⚠	Clip playback settings are invalid. The following setting(s) have been disabled:
	Fade out
	ОК

It is the user's responsibility to correct the values and re-enable the disabled setting(s).

Playlist Clip Level Properties

Clip Properties	×
General Playback Levels Notes	
Master volume: 90.5 %	
Master lamp level: 81.6 %	
OK Cancel Apply Help	

Master volume:

Sets the master volume of the clip's audio. Use this to normalize the volume across the clips in the playlist.

Master lamp level: Sets the master lamp level of the clip.

Playlist Clip Level Properties

Insert notes about Playlist Clip.

Clip Properties	×
General Playback Levels Notes	
Playlist Clip Notes	
OK Cancel Apply Help	

Playlist Silence Block

A Silence Block adds a period of silence in a playlist. Add a Silence Block by clicking on the toolbar button.

Playlist Silence Block Settings

Silence Settings	
Silence time (secs): 15	
OK	Cancel

Silence time (secs): Enter how many seconds of silence is desired.

Playlist Wait Block

A *Wait Block* pauses playback and waits for the button to be clicked to resume. Add a *Wait Block* by clicking on the toolbar button.

Exporting Playlists

(VenueMagic SC+ and above only)

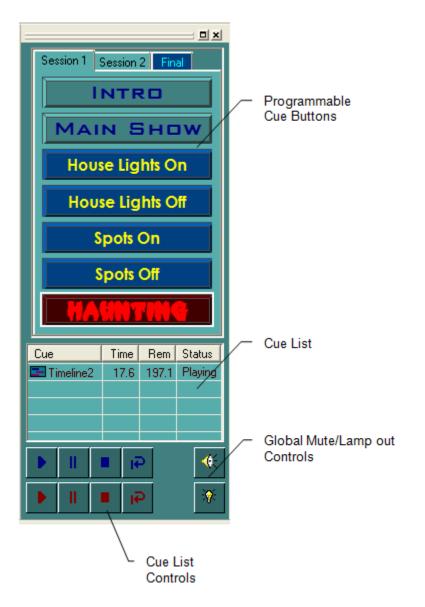
You can export VenueMagic Playlists to supported formats by selecting Files →Export Playlist...

Export type	Description
VEMC1 Playlist	Weigl Works WEMC1 playlist folder

The Select Export Type window lets you select from available export types. Select the type you desire and click next to activate the export wizard specific to the selected type.

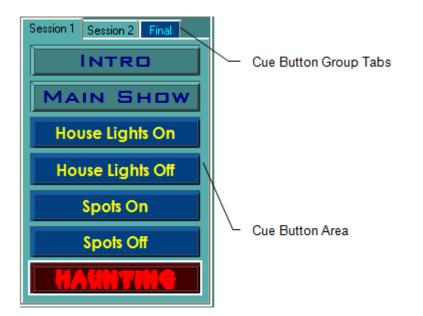
Cue Control Window

The Cue Control Window has two main purposes. First, it provides a customizable list of cue buttons for cueing <u>timelines</u>, <u>playlists</u> and audio files. Second, it displays the current status of the cue list and gives you control of it.



Programmable Cue Button Pane

Cue buttons can be programmed to execute a timeline, playlist or audio file by adding it to the Cue List. Once a button has been programmed, just click on it to run the specified file.



Right-click anywhere in the Cue Button Area to bring-up a menu of options:

Cut Copy Paste Delete Button
New Button New Group
Button Properties

Cut	Delete selected button and place a copy of it into the copy buffer.
Сору	Place a copy of the button into the copy buffer.
Paste	Paste the button in the copy buffer, inserting it before the selected button.
Delete Button	Delete selected button without first copying it into the copy buffer.
New Button	Add a new cue button to the current cue button group.
New Group	Add a new cue button group. <i>Note: VenueMagic Express only allows one group</i> .
Button Properties…	Bring-up the Cue Button Properties window.

You may also click and drag a button to move it's position within a group.

Cue Button Properties	X		
General Levels External Co	ntrol Notes		
Caption: Lightning 2 Button Color			
Play when pressed: Timeline Playlist Select timeline: Audio file Event			
Cueing mode: Run immediately Manual preload Auto-preload Show status lamp	Play looped Play one only Auto play Play as: Background		
Name in Cuelist: Lightning	2		
OK	Cancel Help		

Cue Button General Properties

- **Caption:** Enter the caption displayed on button. Place ampersand ('&') character in front of any character in the caption to make the corresponding key on the keyboard trigger the cue. For instance, enter "&EnvTest1" for the caption, and you will be able to trigger the cue by pressing the letter 'E' on your keyboard. Case is ignored.
- Button Color... Sets the color of the button face.

Font... Sets the font style and color for the caption.

Play when
pressed:Select the type and file that is run in the cue list when the button is pressed.Select from the following:

- **Timeline**: Select a <u>timeline</u> to run. Selections are limited to the timelines in the *Timeline* folder in the <u>Project Window</u>.
- **Playlist**: Select a <u>playlist</u> to run. Selections are limited to the timelines in the *Playlist* folder in the Project Window.
- **Audio File**: Selecting this option will provide a *Browse* button that will bring up a file window. You may select any Wave (.wav), MP3 (.mp3), Windows Media (.wma) or MIDI (.mid) audio file. The selected file need not be included in the Audio folder of the Project Window.
- Event: Select an event from the list and click Setup Event....

- Play when pressed:		
C Timeline		
C Playlist	Select Event:	
O Audio file	Midi Out	-
Event	Recordable	Setup Event

	Listed are the same events that you can add to a timeline event track (see <u>Event Tracks</u>). Check <i>Recordable</i> if you would like this event to be recordable on selected event track during playback. (see <u>Real-time Recording of Events</u>).
Cueing mode:	 Select the type of cueing preload you would like: <i>Run immediately</i>: Cue runs immediately. <i>Manual preload</i>: Enables manual preloading of cues. <i>Auto</i>-preload: Cue is automatically preloaded (<i>currently unavailable</i>). (see <u>Preloading Cues</u>)
Show status lamp	Check this box to show the preload cue status lamp beside the cue button. This should usually be enabled only when <i>Manual preload</i> is selected as the cueing mode. It can also be enabled when <i>Run immediately</i> is selected for consistency in button appearance if desired. However, in this mode, the button really serves no purpose (except for looks) and will remain dark. (see <u>Preloading Cues</u>)
Play looped	Check this box to make the selected file play in a loop.
Play one only	With this box checked, only one instance of this cue can run in the cue list. If this cue is already running in the cue list, attempts to cue another instance will be ignored.
Auto play	Check this box to make the selected file Automatically start playing when the project is loaded.
Play as:	Select how you wish this cue to be played. Your choices are essentially <i>background</i> or <i>foreground</i> . A <i>background</i> cue plays uninterrupted until it ends or is stopped by the user or an event. You can simultaneously play as many background cues as you like. A <i>foreground</i> cue plays until another foreground cue with the same number interrupts it and takes its place. There are ten foreground cues available, numbered 1 through 10. A foreground cue will only interrupt another foreground cue with the same number. An additional foreground cue called <i>Foreground All</i> will interrupt any foreground cue, regardless of its number. <i>Foreground All</i> cues can also be interrupted by any other foreground cue.
Name in Cue list	Background cues do not affect foreground cues and vice versa. This is what will be displayed in the <i>Cue</i> column when the file is run in the <u>Cue List</u> . This will override the Name in Cue list settings in the <u>Timeline</u> <u>Playback Options</u> and <u>Playlist Playback Options</u> windows.

Cue Button Level Properties

Cue Button Properties	×
General Levels External Control Notes	
Master volume: Master lamp level: 80.1 %	
OK Cancel Help	

Master volume: Sets the master volume of the cue's audio.

Master lamp level: Sets the master lamp level of the cue.

Cue Button External Control Properties

Cue Buttons can be activated and controlled externally by MIDI or by VCS.

Cue Button Properties	×
General Levels External Control Notes	
· · · ·	
Preload cue on external source:	Threshold %:
MIDI_01_NTON_091 Select	50
Trigger cue on external source:	Threshold %:
MIDI_01_NTON_115 Select	50
External volume control	
Trigger level (if available)	
C Other input: None selected	Select
External lamp level control	
C Trigger level (if available)	
Other input: MIDI_01_ATCH_097	Select]
· ,	
OK Cancel	Help

Preload cue on

Check this box if you would like the cue associated with this button to be

external source:	preloaded from an external source, and then click on Select to bring- up the <u>Select External Control</u> window. Available only when cueing mode is set to Manual preload in the <u>Cue Button General Properties</u> window. (See also: <u>Preloading Cues</u>) Since external controls input percentage values, enter into the <i>Threshold</i> field the level the external input will have to send in order to trigger the button. See <u>Understanding Threshold Values</u> .
Trigger cue on external source:	Check this box if you would like this cue button to be activated from an external source, then click on Select to bring-up the <u>Select External</u> <u>Control</u> window. Since external controls input percentage values, enter into the <i>Threshold</i> field the level the external input will have to send in order to trigger the button. See <u>Understanding Threshold Values</u> .
External volume control	 VenueMagic can snapshot any input value and use it to set the master volume for the cue. Select from: None: Do not control master volume externally. Trigger level: If the trigger source is a MIDI Note on message, the volume level will be taken from the note velocity data. Otherwise, it will be taken from the value that caused the trigger. Other input: Click the Select button to bring up the Select External Control window and select a source to be snapshot at the moment the trigger is received.
External lamp level control	Identical in function to the <i>External volume control</i> , but affects the master lamp level of the cue.

Cue Button Notes

Enter notes about Cue Button.

Cue Button Properties]
General Levels External Control Notes	
Cue Button Notes	
OK Cancel Help	

Cue Button Groups

(Only Available for VenueMagic Classic and above)

You can setup an unlimited number of Cue Button Groups, each with up to 16 buttons. Cue Button Groups appear as tabs above the <u>Cue Button Area</u>. Select the tab to show the group.

Right-click on a group tab to bring up a menu of options:

Paste Button
New Group Delete Group
Group Properties

Paste Button	If you have copied a button into the Copy buffer, this option will add that button to the selected group.	
New Group	Add a new cue button group.	
Delete Group	Delete the selected cue button group.	

Group Bring up the Group Properties dialog window for the selected group.

Properties...:

Cue Button Group Properties

Group Properties	×
Group name: FlameUps	Set tab color
 Size buttons to fit Allow multiple columns Max button rows: 6 ÷ Distribute columns evenly 	Set tab text color
Notes: Controls light sequences for flame effects.	-
	OK Cancel

Group name: Enter the group name that will appear in the *Cue Button Group* tab.

Set tab color... Sets the color of the *Cue Button Group* tab. Also sets the color of the <u>cue</u> <u>button area</u> background.

Set tab text Sets the color of the *Cue Button Group* tab text.

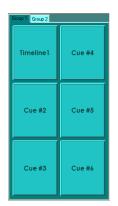
color...

Size buttons to fit Check this box to make the cue buttons scale themselves to fill the entire length of the cue button area. Examples:

Checked:	Unchecked:	
Group 1 Group 2	Group 1 Group 2	
Timeline1	Timeline1	
Cue #2	Cue #2	
Cue #3	Cue #3	
	Cue #4	
Cue #4	Cue #5	
Cue #5		

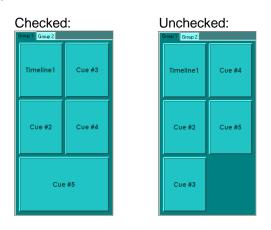
Allow multiple columns:

Check this box to allow for multiple cue button columns. Example:



Max button rows: Specified the maximum number of button rows permitted in the cue button area before the rows are split into columns.

Distribute columns evenly Check this box to make sure that buttons get distributed evenly. This may require the last button to be wider than the others. Examples:



Notes:

Insert notes about the group.

Preloading Cues

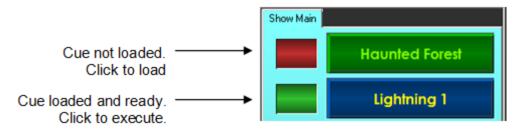
By default, when a cue is triggered (either by clicking the cue button or by an external control message), VenueMagic follows this order of operation:

- 1. Load cue
- 2. Initialize cue
- 3. Execute cue

For audio and small timelines/playlists, this whole process usually happens so fast that a delay is barely noticeable. However, for larger timelines and playlists, the process of loading and initialization can sometimes take several seconds.

To totally eliminate this delay, VenueMagic will allow you to "preload" a cue so that it runs immediately when the cue button is clicked (or an external control message is received).

To setup a cue for pre-loading, select the *Manual preload* option for the cueing mode in the <u>Cue</u> <u>Button General Properties</u> window.



When in *Manual preload* mode, an indicator lamp appears beside the cue button. If the lamp is red, the cue has not yet been preloaded. If it is green, then the cue is preloaded and will begin immediately the next time the cue is triggered.

Preloading & Execution

When the lamp is read, you can initiate preloading by clicking on the cue button. As soon as it turns green, it is ready to be executed. Click the button again to execute the preloaded cue.

In summary, VenueMagic follows this order of events when the cue button is clicked while *in Manual preload* mode:

If lamp is *red*:

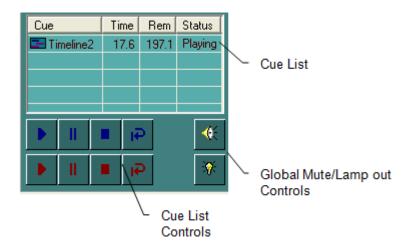
- 1. Load cue
- 2. Initialize cue
- 3. Turn lamp green.

If lamp is green:

- 1. Execute cue
- 2. Turn lamp back to *red*.

Cue List Pane

Includes the Cue List and Cue List controls.



Cue List

The *Cue List* displays all <u>timeline</u>, <u>playlist</u> and audio cues currently playing. Cues are added to the list in the following ways:

- Clicking on a Cue Button.
- Sending an event from a timeline.
- Dragging a timeline, playlist or audio file from the Project Window into the Cue List.

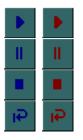
Cues added to the *Cue List* begin playing immediately and are removed from the list when playback is complete, unless the cue is in loop mode in which case it will repeat playback until removed from the cue manually (or by event).

The Cue List contains the following columns:

- **Cue** The name of the cue. This is the name specified in the *Name in Cue list* setting found in <u>timeline</u>, <u>playlist</u>, event (timeline, and audio files), and <u>cue button</u> settings windows.
- **Time** Current playback time for the cue, in seconds.
- **Rem** Current playback time remaining for the cue, in seconds.
- **Status** Current playback status for cue. Can be one of the following:
 - *Playing*: Cue is playing normally.
 - **Paused**: Cue is currently paused.
 - **Looping**: Cue is playing in a and will restart when its playback has finished.

Cue List Controls

The *Cue List Controls* buttons affect the playback of *selected* cues (upper/blue group) or *all* at once (lower/red group). Select a single cue in the list by clicking on it, or select multiple timelines by clicking while holding down the CTRL key. The buttons function as follows:



Resume playback (must be paused).

Pause playback.

Stop playback and remove cue(s) from the list.

Take looped cues out of looping mode so that they will stop and be removed from the list when they have finished current playback.

Global Mute/Lamp-out Controls

Even though these buttons appear on the Cue List Pane, their affect is global.



Mute audio in all currently playing timelines, playlists and audio files. Disable all lamps.

Cue List External Control

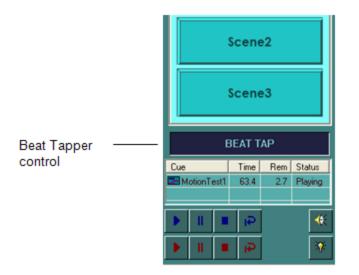
Provides for external control of Cue List Controls.

Cue List External Control	
Trigger Pause on external source MIDI_01_NTOF_008	Threshold %:
✓ Trigger Resume on external source MIDI_01_NTON_044	Threshold %: Select 50
✓ Trigger Stop on external source MIDI_09_ATCH_015	Threshold %:
	Cancel

Trigger Pause on
external sourceCheck this box to enable external control of the cue list's Pause (all)
button. Click on the adjacent Select... button and choose an input
source in the Select External Control window. Since external controls
input percentage values, enter into the Threshold field the level the
external input will have to send in order to trigger the button. See
Understanding Threshold Values.Trigger Resume on
external sourceIdentical in operation to the Trigger Pause on external source function.Trigger Stop on
external sourceIdentical in operation to the Trigger Pause on external source function.

Beat Tapper Control

The Cue Control Window is also home to the *Beat Tapper* control. As the name of this control implies, it is used to establish a "beat" which is used to control the speed of <u>Lamp Chaser</u> effects that have been setup to follow it (see <u>Lamp Chaser Setup Properties</u>). To show the Beat Tapper control, go to the main menu and select *View* \rightarrow *Beat Tapper*. The Beat Tapper control will appear between the cue button are and the cue list.



There are three ways to tap-in a beat:

- 1. Tap in the beat by clicking (with the left mouse button) in the flashing BEAT TAP lamp on the Cue Control Window.
- 2. Tap on the letter "T" key on your keyboard.
- 3. Tap on an external midi controller key (see Beat Tapper Settings).

Beat Tapper Settings Window

Right-click on the Beat Tapper control and select *Beat Tapper Settings…* to bring-up the *Beat Tapper Settings* window.

Beat Tapper Settings	
Scaling No scaling Multiply by Divide by Show BPM	OK Cancel
Align to tap 🔽 Minimum tap BPM: 12	
✓ Use external tap source MIDI_01_NTON_057	Threshold %:

Scaling

You can scale the beat before it gets to the Lamp Chaser effects. This affects the chasers only while the flashing of the Beat Tapper control is unaffected.

- *No scaling*: Do not perform any scaling of the tapped-in beat.
- *Multiply by*: Multiply tapped-in beat by the specified amount to make the beat faster.

• **Divide by**: Divide tapped-in beat the specified amount to make the beat slower.

Note: Scaling the chaser beat will have no effect on the actual tempo of the music.

Show BMP	Check this box to show the current, un-scaled BPM in the beat tapper control.
A 12 <i>i i</i>	

Align to tap With this box checked, lamp chasers will align their beats to be in sync with the tapped-in beat. If unchecked, the speed the chaser will match the tapped-in beat, but their synching will not be lined-up.

- **Minimum BPM** Enter the minimum BPM that would normally be tapped in. Beats tapped-in entered in slower than this will be ignored.
- Use external tap source Check this box to allow tapping to be done from an external MIDI source. Click on Select... to bring-up the <u>Select External Control</u> window. Enter into the *Threshold* field the level the external input will have to send in order to trigger the button. See <u>Understanding Threshold Values</u>.

Lamp Preview Window

The *Lamp Preview Window* helps you get an idea of how your show may look during playback by displaying a graphical representation of selected <u>fixtures</u> in your <u>project</u>. Activate the *Lamp Preview Window* by selecting *View:* in the VenueMagic main menu.



Select Lamp Preview

Right-click anywhere in the Lamp Preview Window and select the *Select Lamps...* option to bring up the <u>Select Channels</u> window. You can also add previews by dragging fixtures and/or groups over from the *Fixtures* and *Channel Groups* folders in the <u>Project Window</u>. Click and drag lamps to rearrange them within the window. To set the properties for a specific lamp, right-click on the

lamp and select the *Lamp Properties*... option. This will bring-up the <u>Lamp Preview Attributes</u> window.

Multi-Channel Lamp Previews

Some fixtures contain more than just lamp level channels. The may include gobo, speed, pan, tilt and other channels (see <u>Fixture Channel Types</u>) that do not lend themselves to be displayed as simple lamps. The *Lamp Preview Window* only shows lamp intensity and color as graphical representation. Other channels are represented as text, as shown below.



Multi-channel lamp previews are identified by a gold ring:





Single-channel lamp previews are identified by a silver ring:

Below is a table of channel types and how they affect a lamp preview:

Color Wheel	Preview lamp shows current color for Color Wheel setting.	
Dimmer	Controls lamp intensity.	
Gobo Wheel	Current gobo shown as text.	
Motion	Current position shown as text.	
Motion PT	Current Pan and Tilt positions shown as text.	
Motion XY	Current X and Y positions shown as text.	
Reserved	Not shown	
RGB	Lamp preview color and intensity derived from combining <i>Red</i> , <i>Green</i> and <i>Blue</i> channels.	
Selector	Current selector is shown as text.	
Speed	Current value of <i>Speed</i> channel is shown as text.	
Time Duration	Current value of Time Duration channel is	

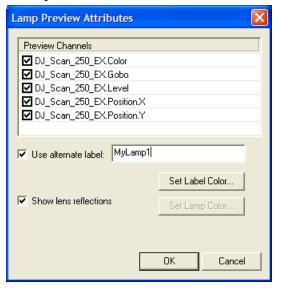
shown as text.

Time IntervalCurrent value of *Time Interval* channel is shown
as text.

If a fixture has multiple lamps, then adding to the Lamp Preview Window will produce multiple lamp previews.

The simple nature of the display approach allows for faster real-time updating, giving you a more accurate picture as far as timing is concerned.

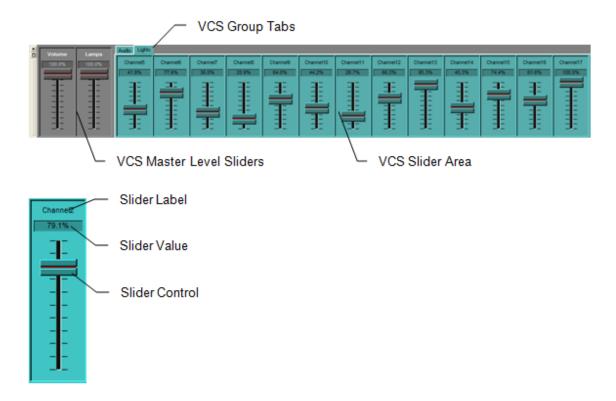
Lamp Preview Attributes



Preview Channels	Select which channels in the selected lamp will affect the lamp display.
Use alternate label:	By default the displayed lamp label is the name of the fixture or channel. If you want to give it a different label, check this box and enter the new label text into the adjacent box.
Set Label Color	Set the label color.
Set Lamp Color	Set the color of the lamp. Only available to lamps that do not have an <i>RGB</i> or <i>Color Wheel</i> channel.
Show lens reflections:	Check this box if you would like the lamp display to show lens reflections. Lens reflections look nice, but they do tend to slow down the Lamp Preview Window update time.

Virtual Control Surface (VCS)

The *Virtual Control Surface* is a collection of sliders that you can use to control anything that gives you the option of external control. Activate the VCS from the VenueMagic main menu by selecting *View: Virtual Control Surface*.



Right-clicking anywhere in the VCS Slider Area to bring up the VCS pup-up menu:

Cut
Сору
Paste
Delete
 New Slider New Group
Slider Properties

Cut Delete selected slider and place a copy of it into the copy buffer.

Copy Place a copy of the selected slider into the copy buffer.

Paste Paste the slider in the copy buffer, inserting it before the selected slider.

Delete Delete selected slider without first copying it into the copy buffer.

New Slider... Add a new slider to the current VCS slider group.

New Group... Add a new VCS slider group. *Note: VenueMagic Express only allows one slider group.*

Slider Bring-up the <u>VCS Slider Properties</u> window. Properties...

You can also click in a slider's label area and drag the slider around to reorganize the window.

VCS Slider Properties	? ×
Channel name: Yellow	Name Color
Select channel: VCS-001	Level Color
-	Slider Color
External control level source:	
JS_1_ZPOS	Select
External control stepwise	Step %: 20
KB_KEY_A	Threshold %:
Select step-down source	Threshold %:
Notes:	_
Master level control of all yellow lamps.	
	ОК
1	Cancel

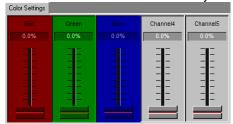
VCS Slider Properties

Channel name: Enter text that will be displayed in the slider label.

Name Color: Click this button to set color of the name text.

Level Color: Click this button to set color of level display text.

Slider Color: Click this button to set the color of the slider background. The slider text color will be selected automatically.



Select channel: Select a VCS channel that will be controlled by this slider. There are a total of 128 slider channels available.

External control source:	Check this box to control the slider from an external source, and then click <i>Select…</i> to bring up the <u>Select External Control</u> window. Since the slider itself is available as an external source, the external source entered here will also control whatever the slider itself is controlling.	
External control stepwise	Check this box to enable stepwise slider adjustments. In this mode, sliders are adjusted incrementally when specified external input conditions are met.	
Step %	What percent of change occurs when stepwise control is triggered.	
Select step-up source	Click to bring-up the <u>Select External Control</u> window to select the external control for stepwise <i>increasing</i> the slider level. Then set the Threshold value (see <u>Understanding Threshold Values</u>).	
Select step-down source	Click to bring-up the <u>Select External Control</u> window to select the external control for stepwise <i>decreasing</i> the slider level. Then set the Threshold value appropriately	
Notes:	Enter notes with respect to slider.	

VCS Slider Groups

(Only Available for VenueMagic Classic and above)

You can setup any number of VCS Slider Groups, each with as many sliders as you like. VCS Slider Groups appear as tabs in the <u>VCS Group Tabs</u> area. Select the tab to show the group.

Right-click on a group tab to bring up a menu of options:

Paste Slider
New Group Delete Group
Group Properties

Paste Slider If you have copied a slider into the Copy buffer, this option will add that slider to the selected group.

New Group Add a new VCS slider group.

Delete Group Delete the selected VCS slider group.

 Group
 Bring up the VCS Slider Group Properties dialog window for the selected group.

 Properties...:
 Properties...:

VCS Slider Group Properties

VCS Slider Group Properties	×
Group name: Master Color	OK Cancel
Set tab text color	
Notes:	
Master color control sliders.	

Group name: Enter the group name that will appear in the VCS Slider Group tab.

Set tab color... Sets the color of the <u>VCS Slider Group</u> tab. Also sets the color of the *VCS Slider Area* background.

Set tab text Sets the color of the VCS Slider Group tab text. color...

Notes Enter notes about group.

VCS Master Level Sliders

The VCS Master Level Sliders globally control the volume and lamp levels for all timelines, playlists and audio files currently playing. They do not belong to any group and are always shown when the VCS is active. Right click on either slider and select Slider Properties... to bring up the <u>VCS Slider Properties</u> window. You will note that Slider name and Select channel boxes are grayed-out. However you may select an external control source is you wish.



Device Setup

Audio Device Setup

Select the audio device VenueMagic will use. Only one may be selected, which will apply to all projects. In *VenueMagic DMX+AV Edition*, this is the device a newly added audio track will default to (see <u>Audio Track Audio Properties</u>).

Setup Devices	×
Audio DMX Midi Supported Devices	
Select Audio Device	
Primary Sound Driver	
SPDIF Interface (Sound MAX Integrated Digital	
Speakers (SoundMAX Integrated Digital HD Aud	
1	
OK Cancel H	elp

DMX Device Setup

This window displays all available universes (depending on the VenueMagic version) and allows you to select from a list of assigned devices to be used for each universe. It also lets you select a source for DMX Input.

Setup Devices			×
Audio DMX	Midi Suppo	nted Devices	
DMX output u	universes:	Assign	Un-assign
Universe	Assigned to Dev		
1	VM-USBDMX-01	1-0(10019036)	
DMX input de			II
	Input Device		
Art Net			
	OK	Cancel	Help

DMX Output Universes

You can assign any supported and installed device to any available universe (depending in which version of VenueMagic you own). Only a single device can be assigned to a specific universe and vice versa.

To un-assign a universe, select the desired universe and click the Un-assign button.

To assign a universe to a DMX device, select the universe you wish to assign, the click the *Assign* button to bring-up the *Assign* DMX Universe window.

Installed Device	Max Univ	OK
/M-USBDMX-01(10019036)	1	
JSB <-> Serial	1	Cancel
WEMC1 @ 192.168.1.31:5555	1	
OpenDmxUsb-0	1	

This window lists all currently connected DMX devices and the number of universes it supports. Select the desired device and click OK.

DMX Input Devices

(Only Available for VenueMagic Classic and above)

VenueMagic will allow you to select a single installed device that can be used for DMX input. Devices that are capable of DMX input are shown in the *DMX input devices* list. Some devices (such as the Enttec USB Pro) can either do DMX input or output, but not both. If you have already assigned such a device to a universe in the *DMX output universes* list, it will not be appear in the *DMX input devices* list unless you first unassigned it. Likewise, any such device selected in the input list will not be available for assignment to an output. Devices capable of doing input and output simultaneously (such as ArtNet) are available in both lists.

Only one DMX device may be selected for input. DMX input is available in the <u>Selecting External</u> <u>Control</u> window.

MIDI Device Setup

Select the MIDI input and output devices to be used by VenueMagic. Only one of each may be selected, which will apply across all projects. *MIDI output is not available in VenueMagic Express.*

Setup Devices	×
Audio DMX Midi Supported Devices	
Select MIDI Input Device	
MidAir	
MIDIIN2 (MidAir)	
Select MIDI Output Device	
Microsoft GS Wavetable Synth	
MidAir	
1	
OK Cancel H	Help

Supported Devices Setup

VenueMagic supports several models of DMX interfaces. Each device has its own set of drivers and control functions. Check the device(s) you are currently using with VenueMagic. If you are not using a device, leave it unchecked.

Setup Devices	×
Audio DMX Midi Supported Devices	
Select devices you would like to support:	
Serial Communications	
Properties	
OK Cancel Help	

As support for other devices is added to future versions of VenueMagic (DMX or non-DMX) it will appear in this list. If a device requires some setup, select the device, then click the *Properties* button. For information about serial communications, see <u>Serial Port Output</u>.

For more information about the DMX interfaces VenueMagic supports, please see our website at www.venuemagic.com/dmxsupport.

Selecting External Input Devices

The Select External Control window is used by all VenueMagic features that require the selection of an external device.

lect External Con	trol			?
elect input device:	Joystick Interface			• ОК
evice input group:	Joystick #01			Cancel
Process data	Scaling=100%, Offset=0% Setup			
elect input channel:			Capture enabled	
Name	Joystick Channel	Status	Scaling	▲
JS_1_XPOS	Joystick #1 - X-Axis Position	Ready	None	
JS_1_YPOS	Joystick #1 - Y-Axis Position	Ready	None	
JS_1_ZPOS	Joystick #1 - Z-Axis Position	Ready	(0/50/100)	
JS_1_RPOS	Joystick #1 - R-Axis Position	Ready	None	
JS_1_UPOS	Joystick #1 - U-Axis Position	Unavailable	None	
JS_1_VPOS	Joystick #1 - V-Axis Position	Unavailable	None	
JS_1_POV	Joystick #1 - POV Angle	Ready	None	
JS_1_BTN1	Joystick #1 - Button #1	Ready	None	
JS_1_BTN2	Joystick #1 - Button #2	Ready	None	
JS_1_BTN3	Joystick #1 - Button #3	Ready	None	
JS_1_BTN4	Joystick #1 - Button #4	Ready	None	
JS_1_BTN5	Joystick #1 - Button #5	Ready	None	
JS_1_BTN6	Joystick #1 - Button #6	Ready	None	Input
JS_1_BTN7	Joystick #1 - Button #7	Ready	None	Settings
JS_1_BTN8	Joystick #1 - Button #8	Ready	None	
JS_1_BTN9	Joystick #1 - Button #9	Ready	None	Clear Input
JS_1_BTN10	Jovstick #1 - Button #10	Readv	None	 Settings

Select input device:	 Select a source device for external input. This version of VenueMagic supports : DMX Input (see <u>DMX Device Setup</u>) (VenueMagic DMX+AV only) MIDI Input (see <u>MIDI Device Setup</u>) Virtual Sliders <u>Virtual Control Surface (VCS)</u>. Joystick (up to 15) (VenueMagic Classic and DMX+AV only) Keyboard (key-down=100%, key-up=0%) (VenueMagic Classic and DMX+AV only) 	
	Other input sources will be included as they become available.	
Device input group:	Input channels on some devices are divided into groups. Select the group that applies.	
Process Data	Check this box is you would like to perform additional processing on this input. Then click the Setup button to open the <i>Data Processing</i> window. This functions differently from <u>Input Channel Settings</u> window in that the settings here are associated with the item using the input rather than the input itself. For example if this setting is used for a	

	channel route, only that route would be affected by settings. Other channel routes that may use the same input are not affected.
Select input channel:	Here is listed all available input "channels" for the selected input device. The list column headers adapt themselves to the selected device. Pick a channel from the list and click OK.
Capture enabled:	Monitors the selected input device for input messages and selects the associated "channel" in the list. When, the proper channel is selected, click OK.
Input Settings	Brings-up the Input Channel Settings window.
Reset Settings	Resets any scaling setup in Input Channel Settings window.
<i>Select input channel</i> list <i>Scaling</i> column	If scaling has been setup for this channel, the current settings are displayed here. The format is "(<i>Low/Mid/High</i>)", where <i>Low</i> , <i>Mid</i> and <i>High</i> are the settings in the <u>Input Channel Settings</u> . If the Invert level setting is enabled, the above text will be preceded by the minus sign: "-(<i>Low/Mid/High</i>)". If no scaling has been setup, then column will show the word "None".

Input Channel Data Processing

Data Process	ing	×
		ОК
Scaling (%):	100	Cancel
Offset (%):	0	

Set channel processing for an input channel for a particular item (such as a channel route, slider control, etc...). The scaling and offset values will modify the input channels value as follows:

final value = (input value) x scaling + offset

Input Channel Settings Window

(VenueMagic DMX+AV only)

Input Chan	nel Settings			? ×
	-Level scaling	,	Additional processing	ОК
0.0	50.0	100.0	Pre-scale gain (%): 100	Cancel
-	-	-7	Pre-scale offset (%): 0	
-	-	-	Invert level	
-	-		Control as speed	
-		-	Sensitivity (%): 20	
-	-	-	External ctrl: Select	
-	-	-	None selected	
	-	-	Rest position (%): 50	
Low	Mid 🗖	High	Threshold (%): 0.5	
Input chann	nel name: ZA	xis		

The *Input Channel Scaling* window allows you to setup scaling and other processing for any input.

Input Channel Name

Enter the desired name for this input.

Level Scaling

The settings are similar to those found in the <u>Calibrate Lamps</u> window.

Low	Sets the low value for the channel range. In other words, if the input is set to zero, <i>Low</i> will be the scaled value.
Mid	Sets the mid value for the channel range. When the input is at 50% full scale, this will be the scaled value. This allows for non-linear scaling. Check the <i>Mid</i> checkbox to enable this feature.
High	Sets the high value for the channel range. If the input is set to its highest level, <i>High</i> will be the scaled value.

Additional Processing

In this group you can set additional parameters to process the input channel. The top section allows for added scaling:

Pre-scale gain (%)	Multiply input channel by a gain factor before it goes through level scaling. A value of 100% would leave the input unchanged. 50% would cut it in half, 200% would double it. The valid range is from 0-100%.
Pre-scale offset (%)	Offset the input by a desired percentage. This offset is added to the input signal before the <i>Pre</i> -

	scale gain. A value of 0% leaves the input unchanged. 50% would add 50 to the input level before it is multiplied by the gain50% subtracts 50. The valid range is -100% to +100%.
Invert Level	Check this box to invert the channel such that 0% scales to 100% and 100% to 0%. Inverting is applied after gain and offset, but before scaling.

Control as Speed

In some cases, it would be convenient for the input channel to control the speed of something rather than a level. For instance, suppose you were controlling a moving head with a joystick that snapped-back to a zero (rest) position when you le go of it. It would be much more effective if you could use the joystick to control the speed of the head in the desired direction rather than use it to command the position directly. You can enable this feature for the input channel by checking the *Control as speed* box.

With this enabled for X and Y joystick channels, you could route them to the *Pan* and *Tilt* channels of a moving head (see <u>Channel Routing</u>). Now, push the joystick forward and watch the *Tilt* axis of the head start moving. Release the joystick and the head stops. Push forward harder on the stick and the head moves faster. Pull back on the stick and the *Tilt* axis moves the other direction. Similar action occurs on the *Pan* axis as you move the joystick left and right. Try this out with the *Control as speed* box unchecked and see what happens.

The following parameters are available to fine tune the *Control as speed* feature:

Sensitivity (%)	Adjusts how sensitive the output speed is to movement in the joystick. 100% is for high speeds, 1% for very slow.
External ctrl:	If you would like control the Sensitivity parameter using another external input, check this box. Then click the Select button and select an input and set a threshold value. (See <u>Selecting</u> <u>External Input Devices</u> , <u>Understanding Threshold</u> <u>Values</u>).
Rest position	Most joysticks send values that range from 0- 100% with a rest position (when you let go of the joystick) that is technically at 50%. Here is were you tell VenueMagic what level is should be interpreted as the rest position. The default of 50% should be fine in nearly all cases.
Threshold (%)	While is rest position, many (usually cheaper) joysticks tend to <i>chatter</i> . This means that they move back and forth between levels even though you are not touching it. The <i>Threshold</i> value specifies how far the joystick has to move away from rest position before it is no longer considered at rest. The default of 0.5% usually works fine. <i>Note:</i> Do not confuse this with the threshold value used for triggering as described in <u>Understanding Threshold Values</u> .

Understanding Threshold Values

Some VenueMagic External Control settings require a *Threshold* value, which usually defaults to 50%. The reason that this value is necessary is that some MIDI controller buttons will send a midi message twice, first when pressed, again when released. Only the *data* field of these two messages will differ. VenueMagic will look at the data field and compare it to the threshold value to make sure that only the "pressed" message will be used. Most MIDI data values range between 0 and 127, which VenueMagic scales to a range of 0 to 100%. Buttons that send two messages usually sent 127 in the data field when pressed, and 0 in the field when released. Setting the threshold to 50% (a MIDI value of roughly 63) usually works in most cases. If the selected MIDI button sends only one message when pressed (and no message when released) it is not always certain what value of the data field will contain. In this case, it is best to set the threshold value to 0%, which is a special case that will trigger on the message regardless of its associated value. If you're not sure what your MIDI button is doing, use the <u>MIDI Monitor</u>.

If you want a trigger to occur when the associated value is *less than* the specified threshold, put a negative sign in front of it.

In summary:

Threshold value	Description
50%	Trigger occurs with value is <i>greater than</i> 50% (63 for MIDI controllers). Use this for MIDI control buttons that send two messages, where the first messaged (pushed) is greater than the second (released).
-50%	Trigger occurs with value is <i>less than</i> 50% (63 for MIDI controllers). Use this for MIDI control buttons that send two messages, where the first messaged (pushed) is greater than the second (released).
0%	Trigger occurs when messages is received, regardless of associated value. This is the best setting for note keys and MIDI controller buttons that send only one message.

Note: VenueMagic converts all *MIDI NOTE OFF* messages to *NOTE ON* messages with a velocity of zero.

Customizing VenueMagic's Appearance

Clicking on the *button* in the main toolbar will bring-up the Appearance Settings dialog window, which will allow you to change colors and fonts for various items of the VenueMagic windows.

Customizing Color

Appearance Settings	د	<
Colors Fonts		
		L
Screen:	Item:	
Chaser Lamp	Clip Plot	
Cue Window	Clip Plot (Selected)	
Edit Envelope	Color Handle	
General	Cursor Time BG	
Playlist	Plot Background	
Project Window	Plot Major Grid	
Timeline	Plot Minor Grid	
Virtual Control Surface	Plot Points Plot Scale Background	
Changes Calcul	Time Cursor Line	
Change Color	Time Cursor Pointer	
Global use gradients 🔽		
OK Car	ncel Apply Help	

Screen: Select a VenueMagic window. The *Item* list will be filled items that can be modified.

Item: Select an item to change.

Change Color: Choose a new color for the selected item.

Global use gradients Check this box and VenueMagic will use color gradients to show certain items. It looks nice, but could slow down drawing time for very complicated timelines.

Customizing Fonts

Appearance Settings	×
Colors Fonts	
Screen:	Item:
Chaser Lamp Cue Window Edit Envelope Lamp Preview Window Library Playlist Timeline	Clip Info Length Clip Info Start Time Clip Label Text Master Sync Track Label Time Display Track Name
ABC123	
Edit Font	
OK Car	ncel <u>Apply</u> Help

Screen: Select a VenueMagic window. The *Item* list will be filled items that can be modified.

Item: Select an item to change.

Edit Font: Modify the current font for the selected item as desired.

Project Notes

Various items in VenueMagic include a tab or field to insert notes. Enter anything you like into these fields as they are there to help you keep track of you thoughts as you put shows together.

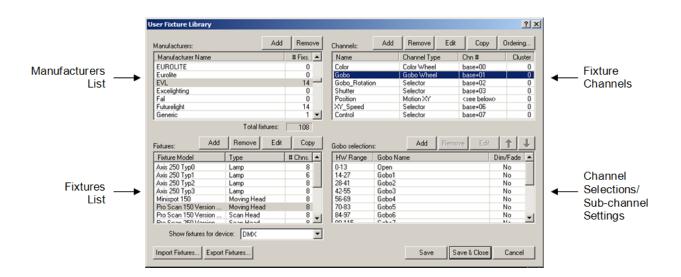
Timeline Options
Timeline Options X Timeline Playback Audio Lamps External Control Notes Main timeline controls all lamps directly but uses events to trigger solenoid sequences. Image: Control sequences Notes Image: Control sequences
OK Cancel Help

User Fixture Library

(VenueMagic Classic and above only)

VenueMagic's fixture library includes hundreds of fixture profiles from various manufacturers and it is constantly being added to. However you may, from time to time, desire to use a fixture that is not currently part of the installed library. VenueMagic's User Fixture Library allows you to enter your own fixture profiles and use them in your projects as easily as you would fixtures from the installed library. Profile information for specific fixtures should be available from the fixtures manufacturer, and will be required for entering fixtures into the library.

In the main menu, select *Tools* ->*User Fixture Library*... to bring up the User Fixture Library window:



The User Fixture Library window is divided into four sections:

Manufacturer List	List of fixture manufacturers.
Fixture List	List of all fixtures associated with the selected manufacturer.
Fixture Channels	All channels in the selected fixture.
Channel Selections/ Sub channel Settings	For channels that are divided into range values (such as gobos and color wheels) this list shows hardware range values associated with functions for the selected fixture channel. It also shows sub channel information for compound channels.

The *Save* button lets you save changes without closing the window. The *Save* & *Close* button saves your changes and then closes the window.

Note: Changes made to the fixtures in the User Fixture Library will in no way affect fixtures stored in the main fixture library.

Manufacturers List

Manufacturers:	Add	Remo	ve
Manufacturer Name	:	# Fixs.	
Generic		0	
irradient		0	
Kool Light		0	_
Martin		29	
OmniSistem		0	
Pro Lighting USA		0	
Proel Lighting		0	•
Total f	ixtures:	30	

VenueMagic lets you keep track of your user fixtures by manufacturer. Initially, this list is taken from the main fixture database when you run the program, but you may add and remove manufacturers as you like. To add a manufacturer, click on the *Add* button and enter then name of the new manufacturer.

Enter new	Martin	29
manufacturer's	MyManufacturer	0
name	OmniSistem	0

To change the name of a manufacturer, select the desired manufacturer, then click in the Manufacturer Name column and key in a new name.

To remove a manufacturer and all of the fixtures in the User Fixture Library that are associated with it, click the *Remove* button.

The *#Fixs.* Column show the number of fixtures the library contains for that manufacturer. *Total fixtures:* shows the total number of fixtures in the User Fixture Library.

Fixtures List

Fixtures:Add	Remove Edit	Сору
Fixture Model	Туре	# Chns. 🔺
Axis 250 Typ0	Lamp	8
Axis 250 Typ1	Lamp	6
Axis 250 Typ2	Lamp	8
Axis 250 Typ3	Lamp	8
Minispot 150	Moving Head	8
Pro Scan 150 Version	Moving Head	8
Pro Scan 150 Version	Scan Head	8 🚽
Dro Coop 250 Version	Coop Hood	• 🔟
Show fixtures for devi	ice: DMX	•

The fixtures list lets you add, remove, edit or copy fixtures associated with the manufacturer currently selected in the manufacturers list. If no manufacturer is selected, this list will be blank. The list displays the fixture model, type and the number of channels the fixtures contains.

Show fixtures for device selects the device the fixture is associated with. The available options are:

DMX – Fixture is a DMX fixture. *Virtual* – Fixture is a virtual fixture (see <u>Virtual Fixtures</u>).

Adding a Fixture

Click the Add button to bring up the Add New Fixture window.

Add New Fixtur	e	×
Fixture name:	MyNewFixture	OK Cancel
Fixture type:	Lamp	

Enter a name for the new fixture (usually the name given by the fixture's manufacturer) and then select a fixture type. If you're not certain of the fixtures type, leave it at the default, "Lamp". This field is mainly for your benefit and has no effect on how VenueMagic will interpret the fixture. Click OK when you're done and the new fixture is added to the list.

Editing a Fixture

To edit the name or type of a fixture already in the list, click the Edit button. A similar window will appear.

Edit Fixture Informat	ion	×
Fixture name: Acrob	Cancel	

Fixture names must be unique to the associated manufacturer.

Removing a Fixture

Click the *Remove* button to remove selected fixtures from the list. You may remove a single fixture or multiple fixtures by selecting them in the list. Removing a fixture also deletes all associated channels associated with that fixture.

Copying a Fixture

You can copy a fixture, along with all of its channels and channel range settings by clicking *Copy* to bring up the Copy fixture window.

Copy Fixture Acrobat 7CH	×
Copy to manufacturer: Martin	OK Cancel

First select the manufacturer you would like to copy the fixture to. By default, the current manufacturer is selected. This feature is convenient, because several manufacturers may carry the same fixtures under a different name. Next, select how man copies of the fixture you would like to make.

Fixture Channels List

Channels:	Add	Remove	Edit	Сору	Ordering
Name		Channel Typ	be	Chn #	Cluster
Shutter		Selector		base+00	0
Reflector		Selector		base+01	0
Gobo		Gobo Whee	:l	base+02	0
Position		Motion PT		<see below=""></see>	0
Speed		Selector		base+05	0
Speed_ColorG	iobo	Dimmer		base+06	0

This list shows all of channels associated with the selected fixture. From here you can add, remove, edit and copy channels within the fixture. You can also adjust the DMX channel ordering. The list includes the following columns:

Adding Channels

Click on the Add button to bring up the Add Fixture Channel window.

Add Fixture Channel	×
Channel	ОК
Fixture channel type: Dimmer	Cancel
Number channels 1 1	
Channel base name: Level	
Channel Selections-	

First select a channel type from the *Fixture channel type* list. This is not an arbitrary selection like the *fixture* type. VenueMagic uses this very important setting do decide how the channel should behave in different lamp effects. For a detailed explanation of fixture channel types, see <u>Fixture</u> <u>Channel Types</u>.

Next, select how many channels of this type you would like to add and enter a base name for the channel. If you request more than one of this channel type to be added, the base name will be appended by a number (ex: Lamp1, Lamp2, etc...) to prevent duplicate channel names within a fixture.

Adding Channels with Selections

The channel types *Color Wheel*, *Gobo Wheel*, and *Selector* use DMX level ranges to select colors, gobos or additional features. When one of these channel types is selected, the Add Fixture Channel window will offer additional settings.

	Add Fixture Channel		×
	Fixture channel type: Number channels of this type to add: Channel base name:	Color Wheel	ок Cancel
Additional	Number of colors in each channel: Color base name:	Colors	

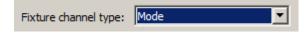
In the case of the Color Wheel channel type, you can enter in the number of color settings available, and then set the base name for each setting. You will later be able to edit the name, DMX level range and other attributes (such as the actual color) in the *Channel Selection/Sub channel Settings* list later on.

Adding Composite Channels

The channel types *RGB*, *Motion PT*, *Motion PT Fine*, *Motion XY* and *Motion XY Fine* are called *composite* channels (see <u>Fixture Channel Types</u>). This means that they are further broken down into sub channels (RGB.Red, RGB.Green, RGB.Blue, MotionPT.Pan, etc...). This allows VenueMagic lamp effects to operate on these channels together to produce more sophisticated lighting effects. Sub channels of composite channels are displayed in the *Channel Selection/Sub channel Settings* list for the selected channel.

Mode Channels

A Mode channel type is used to define a specific operating mode for the fixture.



Quite often, changing the mode in the fixture will also change the channel configuration of the fixture, including the number of channels and their purpose. The way that VenueMagic deals with multi-mode fixtures is by requiring that <u>a separate fixture be added for each mode</u>. After adding the mode channel, you can edit it to set the mode value.

Editing Channels

To edit a fixture's settings, select the fixture and click the Edit button to bring up the *Edit Fixture Channel* window.

Edit Fixture Cha	nnel		<u>?</u> ×
Channel name: Channel duster:	Dimmer	Trace Color	OK Cancel
HW min val: HW max val:	0		

Enter a new name for the channel. For most of the channel types you will be able to select a trace color by clicking the *Trace Color* button. The trace refers to the lines that are drawn to represent the channel level in a <u>timeline</u> or in the <u>Envelope Editor</u>. Trace colors for composite channels are set in the *Channel Selection/Sub channel Settings* list.

Channel Clusters

You can also set the channel's associated *channel cluster*. This value is use used to help determine how a channel should be represented in the <u>Lamp Preview Window</u>. When a fixture is dragged into the Lamp Preview Window, each cluster will have its own separate lamp. This is useful for fixtures such as dimmer packs which control multiple lamps. In addition, some RGB Lamp fixtures may provide control for several RGB channels, each of which will need its own lamp in the preview window. If an RGB fixture includes a master level control that controls all of the red, green and blue levels together, this channel should have the same cluster number as the RGB channel.

VenueMagic will automatically try to assign the cluster number for you as you add new fixtures. In most cases, the default assignment will work just fine. However, you have the option to change it here if it does not.

Hardware Min/Max Values

Most DMX fixture channels have a hardware range of 0 to 255, representing 0 to 100% in VenueMagic world. In addition, VenueMagic combines LSB and MSB of 16-bit controllers into one channel with a range of 0 to 65535. These values are set by default and will not need to be changed. However, there are some fixtures that require odd values that are not within the normal range. These fields are also good for making sure that VenueMagic never sends values outside of the range for this fixture channel.

Editing Mode Channels

Mode channels have their own edit window that only permits you to set the DMX mode code.

Set Fixture Mode		2	×
Fixture mode value:	132	ОК	
		Cancel	
			-

Removing Channels

You can remove one or more selected channels by clicking on the *Remove* button. This will delete the channel and any associated ranges or subchannels.

Copying Channels

To copy a selected channel, click on the Copy button to bring up the Create Copies window.

Create Copies	×
Create how many copies?	OK Cancel

Enter the number of copies you would like to make of the selected channel and click OK. VenueMagic will copy the selected channel any associated range or sub channel information. Each copy will have a sequential number appended to the channel name to prevent duplication.

Setting Channel Order

After you have entered all of the channels in a fixture, you will need to make sure that all of the channels are in the right order as indicated by the fixtures documentation.

	_						Click to adjust
Channels:	Add	Remove	Edit	Сору	Ordering	-	channel order

Click on the Ordering button to bring up the Channel Ordering window.

C	hannel Orde	ring	×
	Chn #	Channel Name	OK
	base+00	Shutter	Canad
	base+01	Reflector	Cancel
	base+02	Gobo	
	base+03	Position.Pan	
	base+04	Position.Tilt	
	base+05	Speed	
	base+06	Speed_ColorGobo	
		<u>↑</u> ↓	

The Channel Ordering window shows all of the physical channels you have include in the fixture and their assigned channel within the fixture. The term *base* in the *Chn* # column represents the base DMX channel setting for the fixture. Notice how the composite channel *Position* has been broken down into its sub channels, *Position.Pan* and *Position.Tilt*.

Select a channel, then use the *buttons* to change the position of the channel in the fixture's channel number ordering. Click OK when you have finished.

Channel Selection/Subchannel Settings

This list will show different information base on the channel type of the channel currently selected in the *Fixture Channel* list.

Motion PT and Motion XY Channels

It the selected fixture channel is Motion PT or Motion XY, then the Channel Selection/Subchannel Settings window will display the associated subchannels like this:

P-T head subchannels:	Add	Remove	Edit	<u>↑</u> ↓
Subchannel Name		Туре		Chn #
Pan		Pan		base+03
Tilt		Tilt		base+04
1				

Position subchannels cannot be added or removed, but you can change their trace color by selecting a channel and clicking on *Edit*.

Motion PT Fine and Motion XY Fine Channels

Motion PT Fine and Motion XY Fine channel types are for channels that control motion using two DMX channels per axis for greater precision. As you can see, the *Channel Selection/Subchannel Settings* window will show will show all four channels.

Scan head subchannels:	Add	Remove	Edit	<u>↑</u> ↓	
Subchannel Name		Туре		Chn #	
X		X		base+07	
Ŷ		Y		base+08	
XFine		X-Fine		base+09	
YFine		Y-Fine		base+10	
1					

You can set the trace color for the coarse position channels (X, Y) but not for the fine channels (XFine, YFine). The reason for this is that VenueMagic handles the splitting of position values across the coarse and fine channels automatically. After you have set them up User Fixture Library window, you will not see them anywhere else.

RGB Channels

When and RGB type channel is selected, the *Channel Selection/Subchannel Settings* shows the *Red*, *Green* and *Blue* subchannels. You cannot change the trace color of these subchannels because it is assumed (perhaps erroneously, but oh well...) that you will want them to be red, green and blue, respectively. This assignment is made for you automatically.

Color Wheel, Gobo Wheel and Selector Channels

For these channel types, the function and appearance of the *Channel Selection/Subchannel Settings* window is changed. Rather than showing subchannels, it now shows DMX level ranges and their associated settings.

Color wheel sel	ections: Add Remove Edit	1
HW Range	Color	Dim/Fade 🔺
0-9	White	No
10-19	Green	No
20-29	Magenta	No
30-39	Green2	No
40-49	Blue	No
50-59	Light_Blue	No
60-69	Red	No 🚽
70 70	Quilla	kl.

Adding Level Ranges

The best way to add selection ranges to a channel is to do it all at once using the bottom half of the <u>Add Fixture Channel</u> window. If done this way, the *Channel Selection/Subchannel Settings* window is pre-loaded for that channel with HW ranges that are event divided. Later you can go back and edit the names and ranges. However, if you find yourself needing to add another level range, then click on the Add button to bring-up the Add Range Settings window. This window is slightly different for each channel type.

Add Color Wheel Range

Add Color Wheel Range S	ettings	×
Name MyColor		Trace Color
Dimmer/fader:		
Colorwheel color: CUSTO	M	
Hardware min value:	255	
Hardware max value:	255	
	OK	Cancel

Name

Type in a name for the color.

Dimmer/fader When checked, this range acts like a dimmer. In other words, a lamp effect can vary the level within the range. When unchecked, only the center point of the range is used by fixture. For example, if, for this fixture, the range 200-255 on this channel corresponds to a rainbow color (non-stop rotating of the color wheel) and the level adjusts the speed of the rotating wheel, then check this box so that VenueMagic knows that the whole range controls something.

Colorwheel color	Select a pre-defined color from the list or select CUSTOM for your own color. Selecting a predefined color will also automatically set the Name field to the appropriate color name.	Blue Blue Blue Caray Gray Gray Green Light Blue Magenta Orange Pink Purple Rainbow Effect V	
Hardware min value	The hardware value (0 to 255) specifying the bottom of the range, inclusively. Hard coded to 255, which puts any added ranges at the very end.		
Hardware max value	The hardware value (0 to 255) specifying the top of the ra inclusively. Hard coded to 255.	inge,	

Add Gobo Wheel Range

Add Gobo Wheel Range Settings			
Name	Gobo7		
Dimmer/I	ader: 🗖		
		255	
Hardware	emin value:	200	
Hardware	e max value:	255	
		OK	Cancel

Name	Type in a name for the gobo.
Dimmer/fader	See Add Color Wheel Ranges.
Hardware min value	The hardware value (0 to 255) specifying the bottom of the range, inclusively. Hard coded to 255, which puts any added ranges at the very end.
Hardware max value	The hardware value (0 to 255) specifying the top of the range, inclusively. Hard coded to 255.

Add Selector Range

Add Selector Range Settings		
Name Selection1		
Dimmer/fader: 📃		
Hardware min value: Hardware max value:	255	
	OK	Cancel

Name Type in a name for selection.

Dimmer/fader See <u>Add Color Wheel Ranges</u>.

- **Hardware min value** The hardware value (0 to 255) specifying the bottom of the range, inclusively. Hard coded to 255, which puts any added ranges at the very end.
- Hardware max value The hardware value (0 to 255) specifying the top of the range, inclusively. Hard coded to 255.

Editing Level Ranges

To edit a selected range, click the *Edit* button to bring up the *Edit Range Settings* window. This window is slightly different for each channel type.

Edit Color Wheel Range

Edit Color Wheel Range Settings	×				
Name Blue	Trace Color				
Dimmer/fader:					
Colorwheel color: Blue					
Hardware min value: 32					
Hardware max value: 47					
OK	Cancel				

Name

Type in a name for the color.

Dimmer/fader Check this box if the range is to behave like a dimmer/fader. See <u>Adding Color Wheel Ranges</u> for a more detailed explanation of this setting.

Colorwheel color	Select a pre-defined color from the list or select CUSTOM for your own color. Selecting a predefined color will also automatically set the Name field to the appropriate color name.	Blue Blue Dark Gray Gray Gray Creen Light Blue Magenta Orange Pink Purple Rainbow Effect
Hardware min value	The hardware value (0 to 255) specifying the bottom of th inclusively. (See also <u>Hardware Min/Max Value Auto-acce</u>	e range,
Hardware max value	The hardware value (0 to 255) specifying the top of the range, inclusively. (See also <u>Hardware Min/Max Value Auto-accommodation</u>)	

.

Edit Gobo Wheel Range

Edit Gobo Wheel Range Settings	×
Name Gobo2	
Dimmer/fader: 🔲	
Hardware min value: 39	
Hardware max value: 56	
OK Cancel	

Name	Type in a name for the gobo.
Dimmer/fader	See Add Color Wheel Ranges.
Hardware min value	The hardware value (0 to 255) specifying the bottom of the range, inclusively. (See also <u>Hardware Min/Max Value Auto-accommodation</u>)
Hardware max value	The hardware value (0 to 255) specifying the top of the range, inclusively. (See also <u>Hardware Min/Max Value Auto-accommodation</u>)

Edit Selector Range

Edit Selector Range Settin	ngs 🔰
Name AutoSound Mode	2
Dimmer/fader: 🗖	
Hardware min value:	90 99
	OK Cancel
Name	Type in a name for the
Dimmer/fader	See Add Color Whee
Hardware min value	The hardware value inclusively. (See also

Hardware max value	The hardware value (0 to 255) specifying the top of the range,		
	inclusively. (See also <u>Hardware Min/Max Value Auto-accommodation</u>		

Edit Bitfield Bit

Edit BitFi	ield Range Setting	s	? ×
Name	Bit1		Trace Color
		OK	Cancel

Name

Enter a name for the bitfield bit.

Hardware Min/Max Value Auto-accommodation

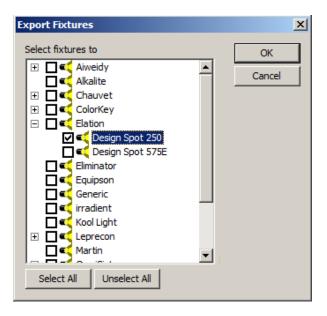
If you change the hardware min and/or max values for a channel range, VenueMagic will automatically adjust other ranges to accommodate the ranges you entered to prevent overlap and gaps in the ranges. This can often lead to unpredictable results if you enter range values very different from the original assigned ranges. Before radically changing hardware values for a

range, it is best to first move the channel range close to where you want it using the above the Channel Selection/Subchannel Settings list and then editing it.

Exporting Fixtures

Import Fixtures	Export Fixtures
-----------------	-----------------

VenueMagic will allow you to export selected user fixtures to a file that can be imported by others. Click on the Export Fixtures... button to bring up the Export Fixtures window.



This tree shows a list of fixtures, listed by manufacturer, that are currently included in the user fixture library. Place a check on the fixtures you wish to export. You may also select all fixtures for a manufacturer by checking the box next to the manufacturers name. To export all fixtures, click on Select All. When you have checked all fixtures you wish to export, click OK, then select a path and enter a filename for the exported fixtures.

Export Fixtures To		×			
🕜 🚺 🕨 Documen	ts 🗸 VenueMagic 🖌 Projects 👻 🖛 🗸 🎸 Search	2			
🕒 Organize 👻 📗 Views	▼ 📑 New Folder	0			
Favorite Links	Name Image: Constraint of the state of the	▼ Size ▲			
More »	Halloween 2009 4/2/2010 8:21 AM File Folder Halloween 2009 BAD 12/14/2009 2:32 File Folder HalloweenNew 12/14/2009 2:32 File Folder				
Folders V	HalloweenNew 12/14/2009 2:32 File Folder Haunted Forest 12/14/2009 2:32 File Folder MyTimelines 12/14/2009 2:32 File Folder				
Ashley's S Cedar Cer	RGB Chaser Problem 1/23/2010 2:47 PM File Folder Simple Haunted House 12/14/2009 2:32 File Folder				
Guitar Cer	SOS 1/20/20 10 9:35 AM File Folder VM1Files 12/14/2009 2:32 File Folder				
📙 Halloweer	FixtureLib.vfl 2/16/2010 3:48 PM VFL File FixtureLib2.vfl 2/16/2010 7:42 PM VFL File	▼			
File name: FixtureLib.vfl					
Save as type: Fixtur	e library files (*.vfl)	•			
Hide Folders	Save	Cancel //			

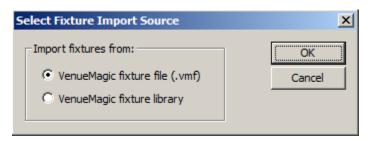
If the operation was successful, VenueMagic shows the message:

VenueMa	gic 2.1 X	I
<u> </u>	Successfully exported 1 fixtures to "FixtureLibtest1.vfl".	
	ОК	

Importing Fixtures

Import Fixtures... Export Fixtures...

VenueMagic will allow you to import fixtures from a previously exported file, or from the main fixture library that came with your installation of VenueMagic. Start by clicking on the *Import Fixtures*... button.



The Select Fixture Import Source lets you choose where you will import from. Select the first option to import from a previously exported fixture file. Select the second option to import from the main fixture library. Then click OK.

Selecting the first option first brings a file selection window from which you may select the file you wish to import fixtures from. Once the file has been selected and loaded, The *Import Fixtures* window you will be allowed to choose which fixtures to import. Selecting the second option brings-up the Import Fixtures window without first asking you to select a file. The Import Fixtures window functions similarly to the <u>Export Fixtures</u> window.

Import Fixtures	×
Select fixtures to import:	ОК
Aiweidy Aikalite Alkalite Alkalite Alkalite Alkalite Chauvet ColorKey Elation Elation Eliminator Equipson Generic Fquipson Generic Kool Light Leprecon Martin OmniSistem	Cancel
Select All Unselect All	Replace older fixtures

If you attempt to import a fixture that is already in your user fixture library, it will be ignored. If you want the imported fixture to replace the old one, check the *Replace older fixtures* option.

Event Scheduler

(VenueMagic DMX+AV and above only)

The *Event Scheduler* lets you schedule the execution of a VenueMagic event for a specific date and time. From the main menu, select *View* \rightarrow *Event* Scheduler top open the *Event* Scheduler window.

Event	Status	April, 2010	
Run Timeline: "AccuSpot 250 Hybred"	Waiting	Sun Mon Tue Wed Thu Fri Sat	
Run Timeline: "AccuSpot 250 Hybred"	Waiting	28 29 30 31 1 2 3	
Play Audio: "VM Demo 1b.mp3"	Waiting	4 5 6 7 8 9 10	
Show Html	Waiting	11 12 13 14 15 16 17	
Run Timeline: "AccuSpot 250 Hybred"	Waiting	18 19 20 21 22 23 24	ALL STATES STREET, STORE
Run Timeline: "AccuSpot 250 Hybred"	Waiting	25 26 27 28 29 30 1	Display
Run Timeline: "AccuSpot 250 Hybred"	Waiting	2 3 4 5 5 7 8	options
Run Timeline: "AccuSpot 250 Hybred"	Waiting		options
Run Timeline: "AccuSpot 250 Hybred"	Walting		
Run Timeline: "AccuSpot 250 Hybred"	Waiting		
		F Enable event triggering	
		Auto-delete triggered events	Triggering options
Delete Repeat	Cut Copy Paste	OK Cancel	J .
	Run Timeline: "AccuSpot 250 Hybred" Run Timeline: "AccuSpot 250 Hybred" Play Audo: VM Denio Ib.mp3" Show Html Run Timeline: "AccuSpot 250 Hybred" Run Timeline: "AccuSpot 250 Hybred"	Event Status Run Timeline!*AccuSpot 250 Hybred" Waiting Run Timeline!*AccuSpot 250 Hybred" Waiting Play Audo: VM Deensi 200 Hybred" Waiting Show Html Waiting Run Timeline!*AccuSpot 250 Hybred" Waiting	Event Status Run Timelnet*Accuspot 250 Hybred* Waiting Run Timelnet*Accuspot 250 Hybred* Waiting Show Html Waiting Run Timelnet*Accuspot 250 Hybred* Waiting

This Event Scheduler window is divided into three sections:

- 1. The event list, shows lists the entered events according to display options and lets you add, edit, delete, copy, etc... events.
- 2. Display options specify the range of dates for which events are displayed.
- 3. Triggering options specify event triggering behavior.

Event List

The event list shows information about all events in the range specified in the display options. Shown for each is event is:

- Date/Time: The date and time that the event will be triggered.
- **Event**: A brief description of the event.
- Status: The current status of the event. Can be one of the following:
 - Waiting: Event is waiting for its trigger time.
 - *Triggered:* Event has been triggered. If *Auto-delete triggered events* is enabled, this status will never bee seen.
 - Disabled: Usually means that the event has not been completely setup.

Color Coding

For convenience, events in the list are color coded according to their status:



Adding Events

To add an event when no existing event is currently selected, click on the Add... button to bring up the *Scheduled Event* window for a new event.

Scheduled Eve	nt		×
Select event:	Run Timeline	•	Settings
Trigger date:	06-Apr -2010	▼ Time: 7:	00:00 PM 🔹
		ОК	Cancel

Select event	Select the event you would like to trigger. Listed here are the same events that you can add to a timeline event track (see Event Tracks).
Settings	Click this button to bring up the events settings window for the selected event. For more information about these settings, go to the event setup window for the specified event in the <u>Event Tracks</u> section.
Trigger date	Click on the button to bring up the date picker and select a date for the event to trigger.
Time:	Enter the time of day that you would like the event to trigger.

Added events are place in the list sorted by date/time. When you add an event, the trigger date and time in the *Scheduled Event* window will default to the date and time of the last event currently displayed in the list. If no events are currently displayed, it will default to the current time, on the date specified in the *display options* section.

Inserting Events

If an event is currently selected, the Add... button will be changed to display Insert...

Insert... Edit... Delete Repeat...

This functions similarly to the Add button, except that the default date and time will be the same as the currently selected event. Again, if you change the date/time, the event will be repositioned in the list so that the proper display order (by date/time) is maintained.

Editing Events

Select the event you wish to edit and click *Edit*... Modify any of the event settings in the *Scheduled Event* window.

Deleting Events

Deleting one or more events by selecting them in the event list, and clicking Delete.

Repeating Events

You can tell events to repeat regularly at daily or weekly intervals. Select the events you wish to repeat and click on *Repeat…* to bring up the *Repeat Selected Events* window.

Repeat Selected Events		×
Repeat every: Day	Sun Sun	OK
Repeat count: 1	☑ Tue ☑ Wed	
	🔽 Thu	
	🔽 Fri	
	🔽 Sat	

Repeat every	You can tell the selected events to repeat every Day or every Week.	lf
	Day is selected, you can choose which days of the week it will be	
	triggered.	

Repeat count Enter the number of time you would like the selected events to repeat.

Repeating events really just copies them at the specified interval for the specified number of times. Once they have been set to repeat, you cannot go back and change the repeat parameters.

Cut, Copy and Paste

Cut	Copy	Paste	

You can also cut, copy and paste selected events using the **cut copy Paste** buttons. When you paste copied events, the event time remains the same, however, the date will be adjusted relative to the date currently selected in the *display options* section. For example, suppose you were to copy two events that occurred on the 15th and 16th day of the month respectively. I you were to set the display options to show events for the 20th day of the month and click *Paste*, the two events will be pasted to the 20th and 21st days of the month, respectively. *Note*: you cannot paste events prior to the current date and time.

Event List Display Options

The event list display options lets you select which day or range of days are displayed in the event list.

•		Ар	ril, 2(010	Þ	
Sun 28 4 11 18 25 2	29 5 12 19 26 3	30 6 13 20 27	31 7 14 21 28	1 8 15 22 29	-	← Date select calendar
Show Today Show events for: Day From: 04-Apr -2010 Ge-Apr -2010 Display range						

Date Select Calendar

In the *date select calendar*, click on the day you would like to display in the list. You can also select several days by clicking and dragging the mouse pointer across multiple days.

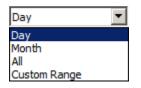
•	I	Ар	ril, 2(010		Þ		
Sun	Mon	Tue	Wed	Thu	Fri	Sat		Bolded dates
28	29	30	31	1	2	3		contain events
4	5	6	7	8	9	10	/	
11	12	13	14	15	16	17		
18	19	20	21	22	23	24		
25	26	27	28	29	30	1		
2	3	4	5	6	7	8		
								e of ed davs

As you make your selection, the event list is updated with all events scheduled to trigger within the range. Use the \checkmark keys to select the displayed month.

Dates that contain events are marked in bold

Showing Events Over Ranges

You can a range of dates with the Show events for selector



Select *Day* for a single day in the currently displayed month or *Month* to show events for the entire month. If you select *Custom Range*, you can enter an arbitrary range of dates in the *From* and *To* fields below.

To show events scheduled for today, click on the Show Today button.

Triggering Options

 Enable event triggering
 Auto-delete triggered events
 With this box checked, events will be cleared from the list as soon as they are triggered. If unchecked, triggered events remain listed with their status set to *Triggered*. Triggered events can be copied to a future time, but cannot be reset to trigger again.

Real-time Recording and Editing of Channels

(Only available for VenueMagic DMX+AV and above)

VenueMagic allows you to perform real-time recording of DMX, MIDI and Joystick inputs. You can setup Level Control effects to record input channel levels as they control specific output channels, and then play them back later. For more information on setting up the record feature, see <u>Level Control Setup Recording Properties</u>.

After you have recorded data, you can go back and edit it using the envelope editor. The Envelope Editor includes tools for, moving, stretching, dragging, smoothing, time shifting, and more. For more information on editing recorded data, see Editing Recorded Data.

Serial/UDP Port Input/Output

(Only available for VenueMagic DMX+AV and above)

VenueMagic lets you send customized synchronized messages over any serial communications or over UDP port on a local area network (LAN). It will also let you specify special input commands to allow external serial or UDP devices to command VenueMagic to send events or act as external control devices. From the <u>Supported Devices</u> tab in the <u>Setup Devices</u> window, check and select *Serial Communications* devices list, and click the *Properties* button. This will bring-up the *Serial Port List* window.

Serial Port List Window

Use this window to add or edit serial or UDP ports that can be used by VenueMagic <u>Serial Out</u> <u>Events</u>.

erial Port List		>
Serial ports:		ОК
Port Name	Port ID	
✓ Prolific USB-to-Serial Comm Port (COM20)	USB Serial Port (COM3)	Cancel
USB Serial Port (COM22)	USB Serial Port (COM22)	
Prolific USB-to-Serial Comm Port (COM20)	Prolific USB-to-Serial Comm Port (COM20)	
UDPPort	UDP@192.168.1.104:6543	
		_
		Add Serial
		Add UDP
		Remove
		Edit

This list does not show all of the serial ports available on you computer. Rather it shows only those ports that you have told VenueMagic you want to use. To add a serial port to the list, click the *Add Serial* to bring-up the <u>Setup Serial Port</u> window. To add a UDP port, click on Add UDP to brin-up the Setup UDP Port window. To edit the settings an already added serial port, select the port from the list and click Edit... To delete a port from the list, select it then click Remove.

You can enable/disable the port by checking/un-checking the box to the left of the Port name.

Setup Serial Port

This window lets you setup a serial communications port for use by VenueMagic.

Setup Serial Po	rt		×
Port name:	USB Serial Port (COM23)		ОК
Connect using:	USB Serial Port (COM23)	•	Cancel Test
Baudrate:	9600 💌		
Data bits:	8	-Data input	
Parity:	None	Enable	input
Stop bits:	1	Setup Inp	out Commands
Flow control:	None		

This information is dependent on the hardware you will be communicating with. Consult the manual that came with your hardware for the proper serial communications settings.

Port name	Type in any unique name for the port. By default it will be the name of the port selected in the <i>Connect using</i> field.
Connect using	Shows a list of all available serial ports on you computer. Select the one you would like to use.

Baudrate	Select an appropriate baud rate from the list.
Data bits	Select the number of data bits required (4-8). Most hardware will require this to be set to 7 or 8.
Parity	Select the option for parity check. If you're unsure, leave it at none.
Stop bits	Select the stop bits (1, 1.5 or 2). A value of 1 is most common.
Flow control	Select the flow control (handshaking) mode for communications. "None" is the most common selection.
Enable input	Check this box to enable serial input from the selected port.
Setup Input Commands	Click this button to bring up the Serial Input Commands window.
Test	Click the Test button to make sure you can open your serial port. Note: A successful test only tells you the serial port on your computer is setup and working properly. <i>It does not tell you if you are communicating with</i> <i>your hardware.</i>

Setup UDP Port

This window lets you setup a UDP communications port for use by VenueMagic.

Setup UDP Port	t		×
Port name:	UDPPort		ОК
			Cancel
Host address:	192.168.1.104		Test
Host port:	6543		
		Data input	
		Enable i	nput
		Setup Inpu	It Commands

Port name	Type in any unique name for the port. By default it will be the name of the port selected in the <i>Connect using</i> field.
Host address	Enter the computer name or IP address that this port will be communicating with.
Host port	Enter the port number the UDP port will open for sending and receiving.
Enable input	Check this box to enable serial input from the selected port.
Setup Input Commands	Click this button to bring up the Serial Input Commands window.

Click the Test button to make sure you can open your UDP port. Note: A successful test only tells you the UDP port on your computer is setup and working properly. *It does not tell you if you are communicating with another computer.*

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Serial Input Commands

Command	Command Type	Setup Command	OK
ightning 1	Event: Run Timeline:"Lightning 1"		
ightning2	Event: Run Timeline: "Lightning 2"	Command: Lightning1	Cancel
lainLampLevel	Level Control (0-100)		
lainVolume	Level Control (0-100)	Command type	
un_Haunted_Forest	Event: Run Timeline: "HF1 Main Timeline"		
		Event	
		C Level control (COMMAND=value)	
		C Timecode	
		Select event: Run Timeline	
			Add
		Setup Event	Add
		octop crentm	Remove

VenueMagic lets you setup serial/UDP input commands that will enable an external device to perform the following functions on VenueMagic:

- 1. Trigger an event
- 2. Provide level data available in the <u>Select External Control</u> window.

Click the Add button to create a new command, and then setup the command parameters:

Command This is the command string that the external device must send to trigger this command. Command strings sent by the external device must be terminated with a carriage return character (hex=0x0d, decimal=13).

Command type

Select from the following command types:

- Event: Receiving the command triggers a VenueMagic Event.
- Level: Command appears in the <u>Select External Control</u> window.
- *Timecode*: Currently unsupported.

Event Commands

Setup Command
Command: Lightning1
Command type
 Event Level control (COMMAND=value) Timecode
Select event: Run Timeline
Setup Event

Choose a VenueMagic event in the *Select event* list. Click on *Setup Event...* to bring up the properties window for the selected event.

Level Control Commands

Setup Command
Command: MainLampLevel
Command type
 Event Level control (COMMAND=value) Timecode
Min value: 0
Max value: 100

Level control commands must be sent by the external device in the form:

command = level<CR>

Where *command* is the specified command string and *level* is a number between *Min value* and *Max value*. The terminating character, <CR> (hex=0x0d, decimal=13) must always be added to the end of the string. VenueMagic will scale the full range of *Min value* to *Max value* and convert it into the 0%-100% values that VenueMagic expects.

Serial Output Commands

All serial output is handled by the Serial Port Output Event.

Event Table

(Only available for VenueMagic SC+ and above)

Open the Event Table window by selecting *Events* \rightarrow *Event Table* in the main menu.

ents:	Disable events when windo	wis closed	OK
vent	Trig mode	Update ms	Cancel
Run Timeline: "Chase2"	Edge	100	Cancer
Run Timeline: "Flashing"	Manual Grp=2	0	
Play Audio: "Evil Sorcerer.mp3"	Edge	0	
Reset Event Group	Level	1000	
			Add
			Edit
			Concern

Events in the event table function identically to events in an <u>event track</u>. The big difference is that while event track events conditionally trigger at a specific time in a timeline, events in the event table will trigger the moment a condition is true. You can also setup events in the table to trigger periodically at a specified time interval.

To add an event to the list, click the Add button. This will bring-up the <u>Select Event window</u>. Select the event you would like to add and click OK and the Event Properties window will appear for the selected event. Setup the event just as you would an event on a timeline.

You will notice an additional tab in the Event Properties window that does not appear for events in timelines. The Trigger tab is specific to events in the event table and offers for control over how, and hoe often, an event will trigger (see <u>Event Trigger Settings</u> below).

The *Edit* button will bring-up the Event Properties window for the selected event. The *Remove* button will remove selected events from the event table.

Check the Disable events when window is closed box to prevent the events table from activating as soon as the window is closed. This will prevent events from triggering unexpectedly. The event table can be enabled manually by selecting *Events* \rightarrow *Enable Event Table* in the main menu. When enabled, the table will constantly scan through the events, triggering them when the specified conditions are valid.

Select Event Window



Select the type of event to add to the event table. Click OK and the properties window for the selected event will come-up.

Event Trigger Settings

Event VMNet Conditions Triggering Notes	
Trigger mode C Edge (reset when condition goes false) C Level (reset every update interval) Image: The set manual of th	
Update interval (ms): 100 Trigger group: 2	

Event table events offer additional flexibility when it comes to how the event is triggered.

Trigger mode	The trigger mode is actually more concerned with how an event resets itself after it has been triggered. An event is triggered when the specified condition (set in the <u>Conditions</u> tab) becomes <i>true</i> . A triggered event must be reset before it is able to trigger again. The following options are available:
	Edge – Once an edge trigger has been triggered, it can only be reset when whatever condition caused the trigger becomes false. For example, if an event condition cases the event to trigger when a <u>Virtual Slider</u> goes above 50%, the trigger will automatically reset when the slider drops back down to 50%.
	Level – A level triggered event will execute when the specified condition is true and will execute repeatedly until the condition becomes false. This mode is usually used with an Update interval value greater than zero; otherwise the event will be repeatedly triggered at the full VenueMagic cycle rate.
	Manual – In this mode, the triggered event must be manually reset before it can trigger again. There are two ways to reset a manual event:
	 Select Events →Reset Event Groups in the main menu. This will reset all event groups. Reset it using a Reset Event Group event. This will reset a specific event group or all of them.
Trigger group	To more easily facilitate the manual resetting of large numbers of Manual-mode events, each event is assigned to an <i>event group</i> . In this field, select the group number an event will belong to. When Reset Event Group event is executed, all events assigned to a specified group number are reset together.

Variable Table

(Only available for VenueMagic SC+ and above)

The VenueMagic variable table is a list of general purpose variables that store numeric values that can be used as external input sources (see <u>Selecting External Input Devices</u>).

The value of variable tables variables are set primarily by the <u>Set Variable Event</u>, however they can also be modified by a special function of Channel Routing Groups to take advantage of a variable's redirect feature. Access to a variable's value is available only as an external input source.

From the main menu, select *Devices* \rightarrow *Variable Table* to open the Variable Table window.

Variable Table				×
Variables:				ОК
Variable Name	Description	Start Val	Redirected	Cancel
PlayTimelineNum	Number of timeline to play	1	No	Cancel
Attract2Cnt	Counts looping of Attract2 ti	0	No	
Attract1Cnt	Counts looping of Attract1 ti	0	No	
PresetSlider 1	Router preset slider 1	0	Yes	
PresetSlider2	Router preset slider 2	0	Yes	
PresetSlider3	Router preset slider 3	0	Yes	
				Add
				Edit
				Remove

To add a variable to the table, click Add to create a new variable and bring-up the <u>Variable</u> <u>Properties window</u>.

Variable Properties Window

Variable Propert	ties	×
Variable name:	PresetSlider 1	ОК
Description:	Router preset slider 1	Cancel
Startup value:	0	
Redirect to:	MIDI_16_CTRL_058 Select]

Variable name Enter a name top uniquely identify the variable.

Description An optional description of the variable.

- Startup valueEnter the value that will be automatically to the variable when
VenueMagic first starts-up. The variable will retain this value until it is
changed by a <u>Set Variable Event</u> or by a Channel Routing Groups
changed if the routing group is setup to do so.
- **Redirect to** Check this box and any value assigned to the variable will be redirected

to a MIDI channel. Click *Select* to bring-up the <u>Select MIDI Message</u> window.

This feature is mainly intended to function with the Channel Routing Groups feature. As such, the number assigned to the variable is expected to be in the range 0-100, and will be re-scaled to a value between 0 and 127 before being sent as a MIDI message.

Virtual Fixtures

(Only available for VenueMagic SC+ and above)

Virtual fixtures functions as both fixture outputs and external inputs. Virtual fixtures appear in the Fixture folder of the <u>Project window</u>, from where they can be added into lamp tracks. However, they are also available as external inputs in the <u>Select External Input Device</u> window. This allows you to use lamp effects to control volume levels, lamp levels or anything else that can be controlled with an external input.

Unlike regular DMX <u>fixtures</u>, which are associated with an actual piece of DMX hardware, virtual fixtures represent "imaginary" hardware and, by default, do not control anything outside the software (unless redirected to MIDI outputs—see <u>Redirecting Virtual Fixture Channels to MIDI</u>). They exist solely for the purpose of routing level control from a <u>lamp track</u> into an available external input source.

Virtual fixtures are created in two steps:

- 1. Create a virtual fixture in the <u>User Fixture Library</u>. Be sure to select *Virtual* as the *Show fixture for device option*.
- 2. Add the fixture to the virtual fixture list from the Setup Virtual Fixtures window.

Setup Virtual Fixtures Window

Open the Setup Virtual Fixtures Window by selecting *Devices* \rightarrow *Virtual Fixtures* from the main menu.

Fixture	Redirected	Add
3CF2000	Yes	
VirtualRGB	No	Edit
.ightningTriggerChannel	No	Remove
VirtualRGB2	No	Kelliove
.ightningTriggerChannel1	No	
		Redirect
		Edit Fixture
		Library

This list shows virtual fixtures that have been setup for the project.

Add	Click <i>Add</i> to bring-up the <u>Select Fixture List</u> , which shows a list of all virtual fixtures that have been created in the <u>User Fixture Library</u> .
Edit	Click Edit to bring-up the <u>Edit Fixture Settings</u> window for the selected fixture. From here you can rename the fixture and channels as they appear in the Virtual Fixtures list.
Remove	Removes selected fixtures from the list.
Redirect	The redirect features lets you assign virtual fixture channels to actual MIDI messages. Select a fixtures with channels you would like to redirect to MIDI, then click <i>Redirect</i> to bring up the <u>Redirect Virtual Fixture Channels</u> window.
Edit Fixture Library	A shortcut to open the <u>User Fixture Library</u> for creation of new virtual fixtures.

Select Fixture List

Fixture	Туре	ОК
Another new virtual fixture	Lamp	
BCF2000	Dimmer Pack	Cancel
BitField	Lamp	
LightningTriggerChannel	Lamp	
MyFixture	Lamp	
MyVirtualFixture4	Lamp	
New Fixture	Lamp	
New Virtual Fixture	Lamp	
VirtualRGB	Lamp	
VirtualRGB2	Lamp	
		Copies: 1

Lists the virtual fixtures that have been created in the <u>User Fixture Library</u>. Select the fixtures you would like to add to the Setup Virtual Fixtures window and then select how many copies of each fixture you would like to add. Then click OK.

Redirecting Virtual Fixture Channels to MIDI

Virtual fixtures are meant primarily to function as a link between <u>lamp track</u> level control and external inputs (see <u>Selecting External Input Devices</u>). However they do offer an additional feature that allows them to be redirected to MIDI messages, giving VenueMagic the ability seamlessly control MIDI-based fixtures as easily as it controls DMX-based fixtures.

Bring-up the Redirect Fixture Channels window by selecting a virtual fixture in the <u>Setup Virtual</u> <u>Fixtures window</u> and clicking *Redirect*.

xture: BCF2000		ОК
Fixture Channel	Redirect to Channel	Cancel
Slider 1	MIDI_16_CTRL_003	
Slider 2	MIDI_16_CTRL_022	
Slider 3	MIDI 16 CTRL 042	
Slider 4	MIDI 12 CTRL 044	
Slider 5	<unassigned></unassigned>	
Slider6	<unassigned></unassigned>	
Slider 7	<unassigned></unassigned>	
Slider8	<unassigned></unassigned>	
		-

Shown here is a list of all of the channels contained in the selected fixture. Select a channel and click Select to bring-up the <u>Select MIDI Message</u> window. (Note that this is the same selection window used by the <u>MIDI Out event</u>.)

After you have assigned all of the desired channels to MIDI messages, click OK to return to the <u>Setup Virtual Fixtures window</u> where you will see that the Redirected column of the fixture no reads "Yes". This indicates that at least one channel in the fixture has been redirected to a MIDI message.

To un-assign the redirection of a channel, select the desired channel, and then click Clear.

VMNet

(Only available for VenueMagic SC+ and above. Some features available in DMX+AV and Classic)

VMNet expands the power of VenueMagic to local area networks, providing the following capabilities:

- Remote running and synching of timelines
- Remote execution of VenueMagic events
- Telnet services
- Interfacing for VM plug-ins running on other applications (Virtual DJ, etc...)

There are two components to VMNet: *Server*, *Client* and *Time code Source*. Any currently running VenueMagic on the network can function simultaneously as a server and a client.

VMNet Server

The VMNet Server function provides the following services:

Remote synching	The VMNet server can receive time code messages from a VMNet time code source and relay it to any timelines running locally that are setup to receive them.
Remote event execution	VMNet servers receive event commands from clients and execute them on the local machine. Only certain VenueMagic events can be send

	over VMNet. Consult the documentation on a specific event to see if it has VMNet remote execution available.
Telnet service	VMNet offers a simple Telnet server capability for the purpose of receiving VenueMagic event execution commands from other applications.
Plug-in services (available in Classic and above)	VenueMagic plug-ins running in other applications (such as Atomix's <i>Virtual DJ</i>) communicate with VenueMagic through the VMNet server. A number of special functions are exposed to the plug-in to provide a very tight, clean and complete integration between the plug-in and VenueMagic, whether VenueMagic is running on the local computer, or on another computer connected to the network.

More information on how to setup the VMNet server can be found in the <u>Project VMNet Settings</u> section.

VMNet Clients

A VenueMagic project can has as many Clients as required, each one setup to communicate with a single VMNet server running locally or on another computer connected to the network.

VMNet clients enable VenueMagic events to be sent to VMNet servers to be executed remotely on other VenueMagic installations running on the network.

This feature is available only to selected VenueMagic events which include an additional *VMNet* tab in their setup windows.

More information on how to setup VMNet clients can be found in the <u>Project VMNet Settings</u> section.

VMNet Time Code Source

A VenueMagic timeline can be setup to be a VMNet time code source in the <u>Timeline Synching</u> <u>Options</u> window. There are multiple channels of VMNet time code available, so it is possible to run several so timelines simultaneously as VMNet time code sources as long as they are all on different channels.

VMNet Pass Codes

A VMNet server can be setup with a special pass code that prevents un-authorized users to control it from another VenueMagic on the network. A pass code can be any number from 0 to 2147483647and needs to be set for the server and all clients that use the server.

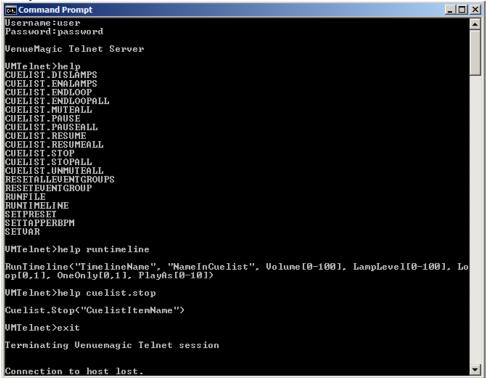
More information on how to setup VMNet pass codes can be found in the <u>Project VMNet Settings</u> section.

VMNet Telnet Server

Telnet is one of the service offered by the VMNet server. It is a simple implementation that gives other applications the ability to remotely execute certain VenueMagic events. More information on how to setup VMNet Telnet server can be found in the <u>Project VMNet Settings</u> section.

Once a Telnet client has successful connected to a VMNet Telnet server, a list of available event commands can be displayed using the **help** command. Typing **help** followed by one of the listed commands provides a simple description of the functions parameter list. Terminate the session by typing **exit**.

Sample VMNet Telnet Session



Each of above event commands executes the VenueMagic events that the command name suggests. The command parameters are named after the settings in individual events. The following conventions are followed in the parameter lists:

- String values are enclosed in quotation marks, which should be included in the sent command.
- Numeric values can be entered with or without the decimal point.
- Parameter ranges and options are displayed in square brackets []. The brackets must not be included in the command.
- For on/off parameter, **0**=off, **1**=on.

For example, the **RunTimeline** command in the sample screen above could be set as follows:

RunTimeline("MyTimeline", "MyTimeline", 100.0, 50,0, 1, 0, 0)

The passed parameters are:

Name of timeline:	"MyTimeline"
Name in cue list:	"MyTimeline"
Volume scaling:	100.0
Lamp level scaling:	50.0
Loop timeline:	1 (enabled)
Play one only:	0 (disabled)
Play as:	0 (background timeline)

VMNet Telnet Clients

Telnet clients enable VenueMagic to send telnet messages to standard telnet servers over a network. Multiple clients can be setup in the <u>Project Telnet Settings</u> window. Once clients have been setup, messages are sent using the <u>VMTelnet Event</u>.

Teleprompter

(Only available for VenueMagic Classic and above)

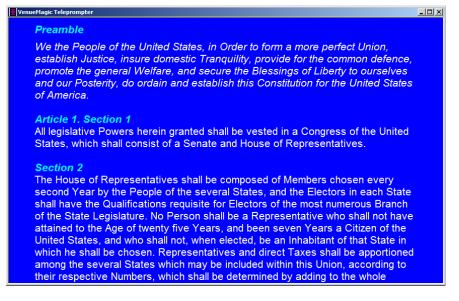
The VenueMagic teleprompter is a powerful, full-featured teleprompter that is fully integrated into VenueMagic's <u>timeline</u> and <u>external control</u> functionality. With the VenueMagic teleprompter you can:

- Import, edit and format multi-page text for display.
- Scroll text manually using a MIDI controller (keyboard, foot control, etc...) or any other supported external control.
- Control text scrolling from a timeline (SC+ only).
- Display song lyrics or other text synchronized to timeline playback.
- Import Lyric (LRC) files to automatically populate a timeline with teleprompter text for a specific song.

Main Teleprompter Window

From the main menu, select *View→Teleprompter* to bring-up the VenueMagic Teleprompter

window. You can also click on the 📃 icon on the main toolbar. Click the icon again to close the window.



This window can be sized and positioned with the mouse. Size and position are saved when VenueMagic is exited. VenueMagic provides only one teleprompter window that is used by all timelines and projects.

Fixed vs. Dynamic Text

Text displayed in the teleprompter window is either *fixed* or *dynamic*.

Fixed text is entered directly into the teleprompter editor (see <u>Teleprompter Edit Mode</u>). *Fixed* text is included as part of VenueMagic's global data (i.e.: not associated with a project or timeline) and is saved automatically when VenueMagic exits. It is also automatically loaded into the teleprompter when VenueMagic is run and remains displayed in the window until it is overwritten by *dynamic* text.

Dynamic text is sent to the teleprompt by a <u>teleprompt marker</u> in a running <u>timeline</u>. A timeline may contain multiple teleprompt markers. As the <u>time cursor</u> passes over a marker, the text and formatting associated with the marker are sent to the teleprompter, overwriting what is currently being displayed.

Which to Use?

Fixed text is easier to use but not very flexible. *Dynamic* text is far more flexible because timelines can control what is being displayed in the teleprompter at all times during show playback.

It should also be noted that the teleprompter is limited to the number of characters it can display. If the text you have cannot be accommodated, you may have to split it up across multiple teleprompter markers.

Teleprompter Edit Mode

At startup (i.e.: when VenueMagic is run), the teleprompter is put into *display mode*, where text can be displayed (and scrolled if needed) but not edited. In order to edit *fixed* text, you must put the teleprompter into *edit mode*. This is done by right-clicking anywhere in the teleprompter text

area and selecting *Switch to Editor*. You can also click on the Selecting icon in the main toolbar.



In edit mode, the teleprompter window functions as a typical text editor with standard settings and features such as:

- Text font, size and color.
- Horizontal/vertical justification
- Horizontal/vertical margins
- Background color
- Cut, copy, paste text
- Import standard (.txt) or formatted (.rtf) text files.

The teleprompter editor serves two main purposes:

- 1. Editing fixed text (see Fixed vs. Dynamic Text)
- 2. Editing and exporting *dynamic* text to <u>timeline teleprompter markers</u> (see <u>Exporting Text</u> <u>and Formatting to Teleprompter Markers</u>).

Edit Mode Toolbar



Below is a summary of the edit mode toolbar button functions:

Button	<i>Function</i> Erase editor contents.
2	Import text (.txt) or formatted (.rtf) files. Note: Formatted (.rtf) files can be created by document editors such as WordPad and MS Word.
👗 🖻 🛍	Standard cut, copy and paste functions.
F	Set font of selected text. Brings up text font setting window.
	Set color of selected text. Brings up color selection window.
	Set editor background color. Brings up color selection window.
₽	Applies teleprompter's current format settings to all teleprompter markers in currently loaded timeline.
	Select horizontal alignment of selected text (left, center or right).
<u> </u>	Inserts a <u>teleprompter marker</u> into the currently open timeline at the location of the <u>time cursor</u> (see <u>Exporting Text and Formatting to Teleprompter</u> <u>Markers</u>).
	Opens <u>Teleprompter Settings</u> window.
	Switch teleprompter back into edit mode.

Exporting Text and Formatting to Teleprompter Markers

If you wish to divide up a larger piece of text across multiple <u>teleprompter markers</u> (song lyrics are a great example of this) the best thing to do is to first load it into the teleprompter editor and then export sections of the text to different markers.

This is done by first selecting a block of text, and then clicking on the button. This will create a new teleprompter marker and copy into it the selected block of text, including formatting.

Teleprompter Settings Window

The Teleprompter Settings window lets you setup the *display mode* behavior of the teleprompter window.

Teleprompter Settings		×
General External Control		
Vertical Alignment - (● Top) (● Bottom (● Center I Show vertical scrollbars I Enable timeline control	Left/fight margin: 0	
ОК	Cancel Help	

Teleprompter General Settings

Vertical Alignment	Select the vertical alignment of all text in the teleprompter. This will only take effect during display mode. Select from <i>top</i> , <i>bottom</i> , and <i>center</i> . <i>Bottom</i> and <i>center</i> alignment works best if the teleprompter contains only a single page of text.
Left/right margin	Adjust the left and right margins of the teleprompter.
Top/bottom margin	Adjust the top and bottom margins of the teleprompter.
Show vertical scrollbars	Check this box if you wish the vertical scrollbars to be available during display mode. If scrolling is controlled exclusively from external controls then scrollbars are probably not needed.
Enable timeline control	Uncheck this box if you do not want the teleprompter to be affected by timeline markers.

Teleprompter External Control Settings

Here you can set how teleprompter page scrolling will respond to external controls.

Teleprompter Settings	×
General External Control	
Enable external control	
Scroll control	
Incremental C Level	
Select page-up source	Threshold %:
MIDI_01_CTRL_024	50
Select page-down source	Threshold %:
MIDI_01_CTRL_034	50
Select goto-top source	Threshold %:
MIDI_01_CTRL_025	50
Select level ctrl None selected	
OK Cancel	Help

Check the *Enable external control* box if you wish use external inputs (MIDI, etc...) to control teleprompter page scrolling. Then select the desired *Scroll control* option, either *Incremental* or *Level*.

Incremental scroll control lets you control *page-up*, *page-down* and *goto-top* from external controls such as buttons on MIDI or PC joystick controllers. Click on the corresponding button (*Select page-up source, Select page-down source, Select goto-top source*) and select the desired external control in the <u>Select External Control</u> window. Then set the threshold value for each as appropriate (see <u>Understanding Threshold Values</u>). Incremental control is best for scrolling with foot switches or other MIDI devices.

Level scroll control lets you set the absolute scroll position using a MIDI slider or other external level control. An input value of 0% scrolls the teleprompter to the top of the first page of text, while 100% scrolls it to the last page of text.

Teleprompter Settings	×
General External Control	
C Incremental	
Select page-up source	Threshold %:
Select page-down source None selected	Threshold %:
Select goto-top source None selected	Threshold %:
Select level ctrl MIDI_01_CTRL_003	
OK Cancel	Help

Timeline Teleprompter Markers

Timeline teleprompter markers let you specify formatted text to be displayed in the <u>teleprompter</u> window when timeline playback reaches the marker. To add a teleprompter marker, right-click on the timeline <u>time scale</u> where you would like the timeline to be placed and select *Insert Marker* \rightarrow *Teleprompter*.



This will insert a green, diamond-shaped teleprompter marker and bring up the *Edit Teleprompter Marker* window.

Edit Teleprompter Marker	
■ # % # # # # # # # # # # # # # # # # # # #	
	OK
	Cancel

This resizable editor functions similarly to the <u>teleprompter window</u> opened in *edit* mode.

During timeline playback, as the <u>time cursor</u> passes over a marker, the text and formatting associated with the marker are sent to the teleprompter, overwriting what is currently being displayed.

The format settings of a new marker are always the settings of the last marker that was edited. This makes it easier to maintain consistency in appearance when multiple markers are added consecutively.

You can also apply the format of the currently opened marker to all teleprompter markers in the timeline by clicking on the solution (see below).

Below is a summary of the teleprompter marker editor button functions:

Button	<i>Function</i> Erase editor contents.
2	Import text (.txt) or formatted (.rtf) files. Note: Formatted (.rtf) files can be created by document editors such as WordPad and MS Word.
🐰 🖻 🛍	Standard cut, copy and paste functions.
F	Set font of selected text. Brings up text font setting window.
	Set color of selected text. Brings up color selection window.
	Set editor background color. Brings up color selection window.
F→	Applies this marker's current format settings to all teleprompter markers in the timeline.
	Select horizontal alignment of selected text (left, center or right).
	Opens Teleprompter Marker Settings window.

Teleprompter Marker Settings

Teleprompter Marker	Settings	×
General		1
Vertical Alignment – © Top © Bottom © Center	Left/right margin: 0	
✓ Open teleprompter ☐ Close teleprompter	f closed	
(K Cancel Help	

Vertical Alignment	Select the vertical alignment of all text in the marker. This will only take effect when sent to the <u>teleprompter</u> during timeline playback. Select from <i>top</i> , <i>bottom</i> , and <i>center</i> . <i>Bottom</i> and <i>center</i> alignment works best if the teleprompter displays only a single page of text.
Left/right margin	Adjust the left and right margins of the teleprompter.
Top/bottom margin	Adjust the top and bottom margins of the teleprompter.
Open teleprompter if closed	Check this box and the teleprompter window will be automatically opened (if not opened already) when this marker is reached. If unchecked, the teleprompter will remain closed, if already closed, and the marker text will not be displayed.
Close teleprompter	Check this box if you which this marker to close the teleprompter window.

Linking Teleprompt Markers to Clips

(see Linking Markers to Timeline Clips)

Importing Lyric (LRC) Files

The <u>teleprompter window</u> is particularly useful for displaying lyrics to a song during playback. <u>Teleprompter markers</u> can be placed at specific locations on the timeline to make sure the correct lyrics are shown as the song plays.

An alternative to manually adding teleprompter markers for each line of the lyrics, VenueMagic will allow you import standard Lyric (LRC) files. Lyric files are available from a variety of sources (including the internet) and include not only the lyrics for a particular song but also timestamps that specify where in the song different lines of lyrics should go.

If you have a lyric file for a particular song (for which you have an audio file), VenueMagic can import the lyrics using the following steps:

- 1. Add the audio clip for your song to a timeline audio track (see Audio Tracks).
- 2. Right-click on the audio clip and select *Import Lyrics*. This will open a file browser.
- 3. Locate and select the lyric file using the file browser and click Open.
- 4. In the <u>Teleprompter Formatting</u> window, setup the default formatting you would like for the lyrics, then click *OK*.

Timeline markers are automatically added to the timeline that contain lyrics for the song, placed at the proper times relative to the beginning of the audio clip. The markers are also linked to the audio clip so that as you drag the clip around, the markers will move with it.

Importing Lyric Teleprompter Formatting

Teleprompter Formatting		
Select Font Select Text Color Select BG Color Horiz, margin: 0	Horizontal Alignment C Left Right C Center Vertical Alignment	Preview: Text Sample
Vert. margin: 0	C Top C Bottom C Center	OK Cancel

Setup the default formatting for all <u>teleprompter markers</u> created from importing a lyric file. The *Preview* window gives you a sample of how the text will look.

Select Font	Click to bring-up the font selector and setup the desire text font.
Select Text Color	Click to bring-up the color selector and select the desire text color.
Select BG Color	Click to bring-up the color selector and select the desired color for the teleprompter background.
Left/right margin	Adjust the left and right margins of the teleprompter.
Top/bottom margin	Adjust the top and bottom margins of the teleprompter.
Horizontal Alignment	Select the horizontal alignment of all text in the marker. Select from <i>left</i> , <i>right</i> , and <i>center</i> .
Vertical Alignment	Select the vertical alignment of all text in the marker. Select from top, bottom, and center. Bottom and center alignment works best if the teleprompter displays only a single page of text.

Debugging Tools

MIDI Monitor

Real time monitoring and displaying of MIDI data from the default MIDI input device (see <u>MIDI</u> <u>Device Setup</u>). This window is activated by selecting *Tools: Monitor MIDI* in the main menu bar.

Channel	Midi Message	Data Field 1	Data Field 2
1	Controller	Controller-23	8
1	Controller	Controller-23	9
1	Controller	Controller-23	10
1	Controller	Controller-23	12
1	Controller	Controller-23	13
1	Controller	Controller-23	15
1	Controller	Controller-23	16
1	Controller	Controller-23	18
1	Controller	Controller-23	19
1	Controller	Controller-23	21
1	Controller	Controller-23	22
1	Controller	Controller-23	23
1	Controller	Controller-23	24
1	Controller	Controller-23	25

Pause Pauses adding of MIDI messages to the list.

Clear list Clear all MIDI message from the list.

DMX Output Monitor

This window provides real time monitoring of DMX levels being sent out to the default DMX interface. Only currently assigned channels are shown.

Channel	Address	Level 🗸	Show level as:
COLORpalette27.Strobe	DMX_003	0%	Percent (%)
COLORpalette27.RGB1.Red	DMX_004	62 %	
COLORpalette27.RGB1.Green	DMX_005	19%	💿 DMX byte
COLORpalette27.RGB1.Blue	DMX_006	62 %	
COLORpalette27.RGB2.Red	DMX_007	8%	
COLORpalette27.RGB2.Green	DMX_008	47 %	
COLORpalette27.RGB2.Blue	DMX_009	22 %	
COLORpalette27.RGB3.Red	DMX_010	18 %	
COLORpalette27.RGB3.Green	DMX_011	41 %	
COLORpalette27.RGB3.Blue	DMX_012	62 %	
COLORpalette27.RGB4.Red	DMX_013	39 %	
COLORpalette27.RGB4.Green	DMX_014	21 %	
COLORpalette27.RGB4.Blue	DMX_015	52 %	
COLORpalette27.RGB5.Red	DMX_016	84 %	
COLORpalette27.RGB5.Green	DMX_017	25 %	
COLORpalette27.RGB5.Blue	DMX_018	62 %	
COLORpalette27.RGB6.Red	DMX_019	7%	
COLORpalette27.RGB6.Green	DMX_020	62 %	
COLORpalette27.RGB6.Blue	DMX_021	62 %	
COLORpalette27.RGB7.Red	DMX_022	62 %	
COLORpalette27.RGB7.Green	DMX_023	59 %	
COLORpalette27.RGB7.Blue	DMX_024	45 %	
COLORpalette27.RGB8.Red	DMX_025	8%	
COLORpalette27.RGB8.Green	DMX 026	62 % 🖄	 Close

Show level as Select Percent (%) to show lever as a value from 0% to 100%. Select DMX byte to show as a DMX value from 0 to 255.

DMX Input Monitor

(VenueMagic DMX+AV only)

This window provides real time monitoring of DMX input levels received from the device selected in the <u>DMX Device Setup</u> window.

JIILOF		put Cha	meis														
001=	204	002=	174	003=	126	004=	109	005=	193	006=	52	007=	7	008=	0	Show level	as: –
009=	250	010=	238	011=	216	012=	197	013=	206	014=	204	015=	183	016=	163		1012
017=	233	018=	149	019=	198	020=	255	021=	105	022=	86	023=	220	024=	152	C Percent	: (%)
025=	0	026=	0	027=	0	028=	0	029=	0	030=	0	031=	0	032=	0	• DMX by	te
033=	0	034=	0	035=	0	036=	0	037=	0	038=	0	039=	0	040=	0		
041=	0	042=	0	043=	0	044=	0	045=	0	046=	0	047=	0	048=	0		
049=	0	050=	0	051=	0	052=	0	053=	0	054=	0	055=	0	056=	0		
057=	0	058=	0	059=	0	060=	0	061=	0	062=	0	063=	0	064=	0		
065=	0	066=	0	067=	0	068=	0	069=	0	070=	0	071=	0	072=	0		
073=	0	074=	0	075=	0	076=	0	077=	0	078=	0	079=	0	080=	0		
081=	0	082=	0	083=	0	084=	0	085=	0	086=	0	087=	0	088=	0		
089=	0	090=	0	091=	0	092=	0	093=	0	094=	0	095=	0	096=	0		
097=	0	098=	0	099=	0	100=	0	101=	0	102=	0	103=	0	104=	0		
105=	0	106=	0	107=	0	108=	0	109=	0	110=	0	111=	0	112=	0		
113=	0	114=	0	115=	0	116=	0	117=	0	118=	0	119=	0	120=	0		
121=	0	122=	0	123=	0	124=	0	125=	0	126=	0	127=	0	128=	0		
129=	0	130=	0	131=	0	132=	0	133=	0	134=	0		0	136=	0		
137=	0	138=	0	139=	0	140=	0	141=	0	142=	0	143=	0	144=	0		
145=	0	146=	0	147=	0	148=	0	149=	0	150=	0	151=	0	152=	0		
153=	0	154=	0	155=	0	156=	0	157=	0	158=	0	159=	0	160=	0		
161=	0	162=	0	163=	0	164=	0	165=	0	166=	0	167=	0	168=	0		
169=	0	170=	0	171=	0	172=	0	173=	0	174=	0	175=	0	176=	0		
177=	0	178=	0	179=	0	180=	0	181=	0	182=	0	183=	0	184=	0		
185=	0	186=	0	187=	0	188=	0	189=	0	190=	0		0	192=	0		
193=	0	194=	0	195=	0	196=	0	197=	0	198=	0	199=	0	200=	0		ose

Show level as

Select Percent (%) to show lever as a value from 0% to 100%. Select DMX byte to show as a DMX value from 0 to 255.

Serial Input Monitor

(VenueMagic DMX+AV and above only)

This window displays serial data received from to the selected port and also lets you send commands directly out the same port.

	M	Ionitor Serial Input
		Select port: UDPPort
Received data (blue)		Lightning1[CR] Lightning2[CR]
Command sent (red)		MainVolume=45[CR] MainLampLevel=100[CR] RunTest
Activity monitor		
Command entry		RunTest2 Send
		Pause Clear list Show raw data Close

The activity monitor shows data received in blue, and commands sent from this window in red. To send a command out the serial port, click in the *command entry* field to show the cursor, and then enter the command. To send the command, hit the *Enter* key or click on the *Send* button.

- **Select port:** Select the serial port to receive data from.
- Pause Pause the display
- **Clear list** Erases the contents of the display.
- **Show raw data** If unchecked, single serial command strings (see <u>Serial Input Commands</u>) terminated by a carriage return <CR> are displayed on their own line as they are received. String is not displayed until <CR> is received.

If checked, all data is displayed as received. Control characters are shown by their ASCII mnemonic inside square brackets ("[]"). (See <u>Serial Event</u> <u>Properties</u> for a list of ASCII mnemonics).

Send Transmit to the selected serial port the command entered into the *command entry field*. After a command is sent, the command entry field is cleared.

Event Status

(VenueMagic SC+ and above only)

Event	Source	Time to trig	Cond. state	Trig. state	Show events from: -
Cue List Command	Timeline: WEMC1Tes	Passed	FALSE	Waiting	Event table
Midi Out	Timeline: WEMC1Tes	Passed	FALSE	Waiting	
Play Audio	Timeline: WEMC1Tes	Passed	FALSE	Waiting	Active timelines
Play Audio: "Evil Sorcer	Event Table	0 ms	TRUE	Triggered	Event scheduler
Reset Event Group	Timeline: WEMC1Tes	Passed	TRUE	Waiting	
Reset Event Group	Event Table	1000 ms	TRUE	Waiting	Reset Event
Run Timeline	Timeline: WEMC1Tes	Passed	FALSE	Waiting	Reset Even
Run Timeline	Event Table	0 ms	TRUE	Triggered	Refresh Lis
Run Timeline: "Chase2"	Event Table	100 ms	TRUE	Triggered	
Run Timeline:"Flashing"	Event Table	0 ms	TRUE	Triggered	
Serial Out	Timeline: WEMC1Tes	Passed	TRUE	Waiting	
Set Channel Router Pr	Timeline: WEMC1Tes	Passed	TRUE	Waiting	
Set Tapper BPM	Timeline: WEMC1Tes	Passed	TRUE	Waiting	
Set Variable	Timeline: WEMC1Tes	Passed	TRUE	Waiting	
Show Html	Timeline: WEMC1Tes	0.8 secs	TRUE	Waiting	
Show Html	Timeline: WEMC1Tes	Passed	TRUE	Waiting	
WEMC1 Control	Timeline: WEMC1Tes	Passed	TRUE	Waiting	

VenueMagic events can be triggered from several places, namely:

- <u>Timelines Event Tracks</u>
- Event Table
- Event Scheduler
- Cue Buttons
- Serial Control

Keeping track of all of these events—their sources, condition state and trigger state—can be a monumental task while developing and debugging a show.

The Event Status window simplifies this by providing real-time updated event status information for all events in the event table, active timelines and the event scheduler. This color-coded list provides useful information about the status of events, their conditions and triggers, in a manner that is clear and (with a little experience) easy to understand. For convenience, the *Event Status* window can remain open while you are doing other things with your project.

Event Status List

The event status list contains five columns with information as described below. Each column can be sorted by clicking on the column header. Click on the header multiple times to sort by that column in ascending or descending order.

<u>Columns</u>	
Event	A description of the event.
Source	Where the event resides: <i>Timeline</i> , <i>Event Table</i> or <i>Event Scheduler</i> . If it resides on a timeline, the name of the timeline is included.
Time to trig	For <i>timeline</i> and <i>event scheduler</i> events this column displays the number of seconds before the event is executed on a flashing green background. For <i>event table</i> events, it shows the update interval for the event (see <u>Event Trigger Settings</u>).
Cond. state	 The current state of the trigger condition (see <u>Event Conditions</u>) : <i>TRUE</i> (light green b.g) – trigger condition is <i>true</i>. <i>FALSE</i> (light green b.g.) – trigger condition is <i>false</i>.

Disabled (dark gray b.g.) – event has been disabled for playback.

A *TRUE* value indicates that the all of the condition set in the <u>Event</u> <u>Conditions</u> are *true*. In this state, the event has either already triggered, or it is waiting for its time to come-up. This value is not affected by the state of the actual trigger.

Trig. state The current state of the events trigger:

Waiting (dark yellow background) – event is reset and waiting for the next. *Triggered* (light green b.g.) – event has triggered and is waiting to be reset.

Disabled (dark gray b.g.) – event has been disabled for playback.

(see also, Event Trigger Settings).

- **Reset Events** Click this button to reset all of the selected events with manual-mode triggers (see <u>Event Trigger Settings</u>).
- **Refresh List** Updates the list with the currently active events—specifically the *timeline events*.

Which Events Are Shown

Event table and *event scheduler* events are automatically added to the *Event Status* list when the window is opened. Events that are added to the *event table* and *event scheduler* while the *Event Status* window is opened are automatically added to the list when they are created.

Timeline events appear in the window when a timeline is activated (i.e.: when playback begins) and will remain in the list even after the timeline has become inactive (playback stops). Events for inactive (non-playing) timelines can be removed from the list by either clicking the *Refresh List* button, or by closing the timeline.

The Show events from checkboxes filter which event sources are represented.

Watch Inputs

(VenueMagic DMX+AV and above only)

Select Tools \rightarrow Watch Inputs from the main menu to open the Watch Inputs window.

Watch Inputs		×
Watch Item	Value	Add
BCF2000.Slider1 BCF2000.Slider2	47.5 13.0	Remove
BCF2000.Slider3	51.4	Edit
JS_1_XPOS VARS.PresetSlider1	0.0 81.0	Set Var
		Jet var
		Close

This handy little debugging tool lets you monitor selected external inputs in real-time. Its operation is really quite simple. Click the *Add* button to bring-up the <u>Select External Control</u> window and select an external input. The selected input is added to the watch list.

Click *Remove* to remove selected items from the list. The *Edit* button brings-up the *Select External Control* window for the selected watch item so that you may change other functions available in that window.

Changing Variable Table Values

If the selected watch item is a <u>Variable Table</u> variable, you can click the Set Var button to open the Set Variable Value window. From here you can enter a new value to be assigned to the variable.

For convenience, the *Event Status* window can remain open while you are doing other things with your project.

Set Variable Value

Enter a new value for the selected variable and click OK.

Set Variable Value	×
	ОК
New value: 81	Cancel

Weigl WEMC1 Operation

(VenueMagic SC+ only)

VenueMagic SC+ supports the Weigl WEMC1 show control device. Communications with the device is over Ethernet only, and can be setup in the Supported Devices Setup window as described in Setting-up VenueMagic for the WEMC1.

VenueMagic SC+ supports the following functions of the WEMC1:

- DMX output
- Analog/digital/servo/PWM output
- Digital input
- Exporting playlists for standalone operation

DMX output

When installed, a WEMC1 looks like a regular DMX output in the <u>DMX Device Setup</u> screen. Only a single universe is supported.

Analog/Digital/Servo/PWM Output

When is WEMC1 is selected for use, VenueMagic automatically creates a WEMC1 fixture for the device and adds it to the Fixtures folder in the <u>Project Window</u>. This fixture gives you access to all analog, digital, servo and PWM channels. You can add them to tracks, groups, channel routing, etc... just as you would any other fixture. A digital output is considered OFF if its level is below 50%, and ON if its level is 50% or higher.

Digital Input

An installed WEMC1 device will appear in the Select External Control window, providing access to 16 digital input channels. When the input is OFF, the value for that input is 0%. When the input is ON, its value is 100%.

Exporting Playlists for Standalone Operation

VenueMagic can export a playlist to the WEMC1 for standalone operation. See <u>Exporting</u> <u>VenueMagic Playlists to the Weigl WEMC1</u>.

Setting-up VenueMagic for the WEMC1

To setup VenueMagic to use the WEMC1, you must first check the Weigl WEMC1 box in the <u>Supported Devices Setup</u> window. Then click on *Properties…* to bring-up the Setup WEMC1 window.

Setup WEMC1			X
Detected WEMC	1 devices:		ОК
Device	IP Address	Serial Number	Cancel
WEMC1_1	192.168.1.160	255.255.255.255	Cancer
			Info
1			

This window lists all WEMC1 devices that have been detected on the Ethernet connection. Check the WEMC1 you wish to install for use. You can also select a WEMC1 on the list and click *Info...*

WEMC1 In	formation		×
1	Serial #: HW Ver: SW Ver: IP-Addr: Subnet Mask: MAC Addr: Port 1: Port 2: Port 2: Port 3: Port 4:	255.255.255.255 1.08 1.29 192.168.1.160 255.255.255.0 00-04-A3-25-7A-0D 5555 5556 5557 22202	
		OK	

Please consult the WEMC1 manual for the meaning of this information.

Creating a WEMC1 Fixture

After you have selected a WEMC1 device, close the Setup Devices window by clicking OK. If there does not yet exist a fixture for that WEMC1, VenueMagic will show the message:

VenueMagic 2.1			×
	?	Add WEMC1 fixtures for all installed WEMC1 devices?	
		<u>Y</u> es <u>N</u> o Cancel	

Click Yes, and a Fixture will be created for the WEMC1 device that was installed in the Setup WEMC1 screen. This fixture will then be added to the Fixture folder of the <u>Project Window</u>.

Uninstalling a WEMC1

You can uninstall a WEMC1 by un-checking it in the *Setup WEMC1* window. When the *Setup Devices* window is closed, you will see the following message:

VenueMa	gic 2.1	×
?	Warning! You have chosen to delete one or more WEMC1 fixtures from the project. Continue?	
	Yes No Cancel	

Click Yes to remove the fixture. Clicking *No* or *Cancel* will return you to the *Setup WEM*C1 window.

Exporting VenueMagic Playlists to the Weigl WEMC1

(VenueMagic SC+ only)

VenueMagic SC+ will let you export VenueMagic Playlist's to show files that can be uploaded to the Weigl WEMC1 show control device for standalone operation. The Playlist and all associated timelines and audio files are converted into WEMC1-compatible files. All files are put into a single

folder that can be copied or uploaded to the WEMC1. For more information about WEMC1 show files and standalone operation, please consult the WEMC1 manual.

WEMC1 Playlist Export Settings

(VenueMagic SC+ only)

Sets where and what will be exported.

WEMC1 Playlist Export Settings	×
WEMC1 Playlist Export Settings Export to path: cuments\VenueMagic\Projects\WEMC1Test2\Test3 Export: Image: Master sync audio track Image: Convert audio files Image: Lamp control Image: Events Time resolution (fps): 30	Browse
< Back	Next > Cancel

Export to path	Click Browse and select the folder that all files will be exported to. All additional folders will be automatically inside the selected folder.
Export	 Select which items are to be exported: Master sync audio track: Check this box to export audio from all timelines in playlist. Only audio on the master sync audio track will be exported. Audio files added directly to the Playlist are always exported. (see Important Limitations on Exporting VenueMagic Audio) Convert audio files: Audio files must be converted into the OGG format to run on the WEMC1. This takes time to do and it doesn't make sense to convert them every time you export if the audio files haven't changed. You can uncheck this box to suppress re-conversion only if there have been no audio changes in the Playlist or any of the Playlists timelines. Lamp control: Check this box to export all lamp control tracks in all timelines in the Playlist. Events: Check this box to export all timeline Event tracks. Only Run Timeline and WEMC1 Control events are exported. All others are ignored.
Time resolution (fps)	Enter the desired time resolution in frames-per-second. Will accept any value between 0.1 and 100. The default of 30 fps is sufficient for nearly all applications.

Click *Next* to bring-up the WEMC1 Playlist Playback Settings window.

WEMC1 Playlist Playback Settings

(VenueMagic SC+ only)

WEMC1 Playlist Playback Settings		
Playback mode Start on trigger Continuous loop or	n power-up	
Start trigger:	Input01 opened	
Default timeline:	Default	
	Delay start: 0:00	
Hold resume trigger:	Input01 closed	
E-Stop timeline:	EStop	
E-Stop trigger:	Input03 closed	
	< <u>B</u> ack Finish Cancel	

Playback Mode

There are two ways that the WEMC1 can run the exported playlist:

- **Start on trigger mode**: WEMC1 waits for the specified trigger to start playing the playlist. A default timeline can be setup to play continuously in a loop until the trigger is activated.
- **Continuous loop on power-up mode**: On power-up WEMC1-1 begins runs playlist continuously in a loop at a specified time interval.

Start on Trigger Mode

The following settings apply when *Start on trigger* mode is selected:

Start trigger	Select the condition that will trigger execution of the playlist. Available are the 16 WEMC1 input bits (input01-input16, either opened or close), and the remote control number keys (0-0).	
Default timeline	Select the timeline that will run continuously in a loop until the start trigger is activated. When the playlist has finished execution, the default timeline will restart. Any timeline in the current project can be selected. If a default timeline is not desired, select <i>None</i> .	
Delay start	Specify how many seconds after power-up the WEMC1 should wait before starting the default timeline (if specified). This can be specified in seconds or minutes:seconds (note ':' used to separate minutes from seconds).	
Hold resume trigger	Select the trigger that will resume playback of a playlist that has encountered a Wait block.	
E-Stop timeline	Select the timeline that should run in an "emergency stop" condition or None	

of not required. For example, this is timeline could turn on the house lights and stop the audio playback.

E-Stop trigger Select the condition that will trigger and E-Stop (see *Start trigger* for available trigger selections).

Continuous Loop Mode

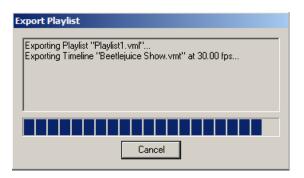
If Continuous loop on power-up mode is selected, the available settings change:

WEMC1 Playlist Playbac	k Settings	×
Playback mode O Start on trigger O Continuous loop o	n power-up	
Restart trigger:	Input01 opened	
Delay start:	0:00	
Loop interval:	0:00:00	
Hold resume trigger:	Input01 closed	
E-Stop timeline:	EStop	
E-Stop trigger:	Input03 closed	
	< <u>B</u> ack Finish Cancel	

- **Restart trigger** Select the condition that will restart execution of a playlist following and E-Stop. See *Start trigger* above for available settings.
- **Delay start** Specify how many seconds after power-up the WEMC1 should wait before starting playback of the playlist. This can be specified in seconds or minutes:seconds (note ':' used to separate minutes from seconds).
- **Loop interval** Specify the interval at which the playlist is repeated. If this value is less than the length of the playlist, then playlist will restart immediately after playback. Specify time in seconds, minutes:seconds or hours:minites:seconds (note ':' used to separate values).
- *Hold resume* Select the trigger that will resume playback of a playlist that has encountered a <u>Wait block</u>.
- *E-Stop timeline* Select the timeline that should run in an "emergency stop" condition or *None* of not required. For example, this is timeline could turn on the house lights and stop the audio playback.
- *E-Stop trigger* Select the condition that will trigger and E-Stop (see *Start trigger* for available trigger selections).

Starting Export

Click on **Finish** and exporting will begin immediately. A window will pop up to report of the progress of the export function.



Important Note: Several Windows command windows may appear if you have selected the Convert audio files option to in the <u>WEMC1 Export Settings</u> window. This is normal.

Important Limitations on Exporting VenueMagic Audio

Exporting audio from VenueMagic timeline tracks has the following limitations:

- 1. Only audio clips on the master sync track will be exported.
- 2. Clips can be trimmed at the end but not the beginning. Any trimming at the beginning of the clip will be ignored, resulting in improper playback on the WEMC1.
- 3. Any audio effects (echo, etc...), envelopes and level settings will be ignored.
- 4. Audio clips with cross-fadeback applied should not be used.

Using VenueMagic with X-Keys

(VenueMagic Classic and above only)

VenueMagic supports the following P.I. Engineering X-Keys USB input devices:

XK-16 XK-24 XK-80/60 XK-3 Foot Pedal

When properly installed and configured, X-Keys devices are available in the <u>Select External</u> <u>Control</u> window.

To use and X-Keys device, follow these steps:

- 1. Plug-in one or more X-Keys USB devices.
- In the <u>Supported Devices</u> tab of the <u>Setup Devices</u> window, select and check the X-Keys Interface device, then click on the *Properties* button to bring-up Setup X-Keys Devices window.
- 3. Set each installed device's Unit ID number to a different value.
- 4. Use the X-Keys devices just as you would use any external control.

Setup X-Keys Devices Window

This window detects all currently installed X-Keys devices and lets you set their Unit ID's.

Setup X-keys Devices			
L	Detected X	-keys devices:	Close
1	Unit ID	X-keys model	
١.	1	X-keys XK-80/60	
	2	X-keys XK-16	
L	5	X-keys XK-24	Set Unit ID
L			Refresh List

By default, all X-Keys devices are shipped with a Unit ID of 0. To program a new Unit ID, select the desire X-keys device and click on the *Set Unit ID* button to bring up the *Set X-Keys Unit ID* window.

Set X-keys Unit ID	
	ОК
	Cancel
Unit ID: 2	

Enter a new Unit ID and click OK.

If you plug-in additional X-Keys devices while the Setup X-Keys Devices window is opened, you must click on *Refresh List* to display the new devices.