

CP Lighting Help

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Cue Player Lighting

Cue Player Lighting



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Introduction

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Cue Player Lighting came about as a need at the theater, where I serve as Technical Director, to replace our aging Horizon system. It runs via a parallel port to dmx converter box and although it served us well, the fear was that should anything happen to it we would be 'up the creek'.

I choose the Enttec Pro as a viable replacement interface and modeled the software user interface after the Horizon system and that of Cue Player Premium.

There was also the need to be able to run a show with just one booth operator. Rather than have that person go back and forth between two keyboards, Cue Player Lighting was built to be able to act as a slave to the sound program. One cue list (albeit a large one) and one keyboard.

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Getting Started

Getting Started

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Getting Started

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The installer will create a Cue Player Lighting folder and copy in the files:

CPLighting.exe - the main executable to run

CPLighting.ini - the settings file (I'm not a registry fan)

CPLighting.lfix - the fixtures data file

CPLighting.spch - the soft patch table

CPLighting.gels - the translation of gel numbers to colors

CPLighting.scne - the saved scene cues

Sample.cue - an example cue file

Sample.fmap - a sample fixtures to dimmer map

There will also be a couple uninstaller files should you want to do that.

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Main Home page - www.baxeldata.com

E-mail - support@baxeldata.com

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About Baxel Data

About Baxel Data

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About Baxel Data

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Baxel Data Systems is known primarily for the [Cue Player Premium](#) software package. That software controls the sound effects and video projections in over 800 theaters, churches, and schools around the world.

Our focus is to bring comprehensive, affordable tools to the entire theater community, not just the 500 seat houses. I am technical director at a theater, the software is used and developed there, not in an office by people who have never done a live show. Any new version has gone through the run of a show at our theater before being released.

Baxel Data also has non-theater software, notably Kart Tracker. That package will time, display and announce a race of radio controlled cars at an arcade. If you go to the Baxel Data [web site](#) you will also see a variety of free tools I've developed along the way.

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Cue Player Lighting

Cue Player Lighting

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The Main Screen

The Main Screen

Tool Bar

Tool Bar



The Tool bar has icons for most of the tasks of setting up a cue list and running a show. Patching, Fixtures, and Preferences are on the bar, but discussed under their own Help topics.



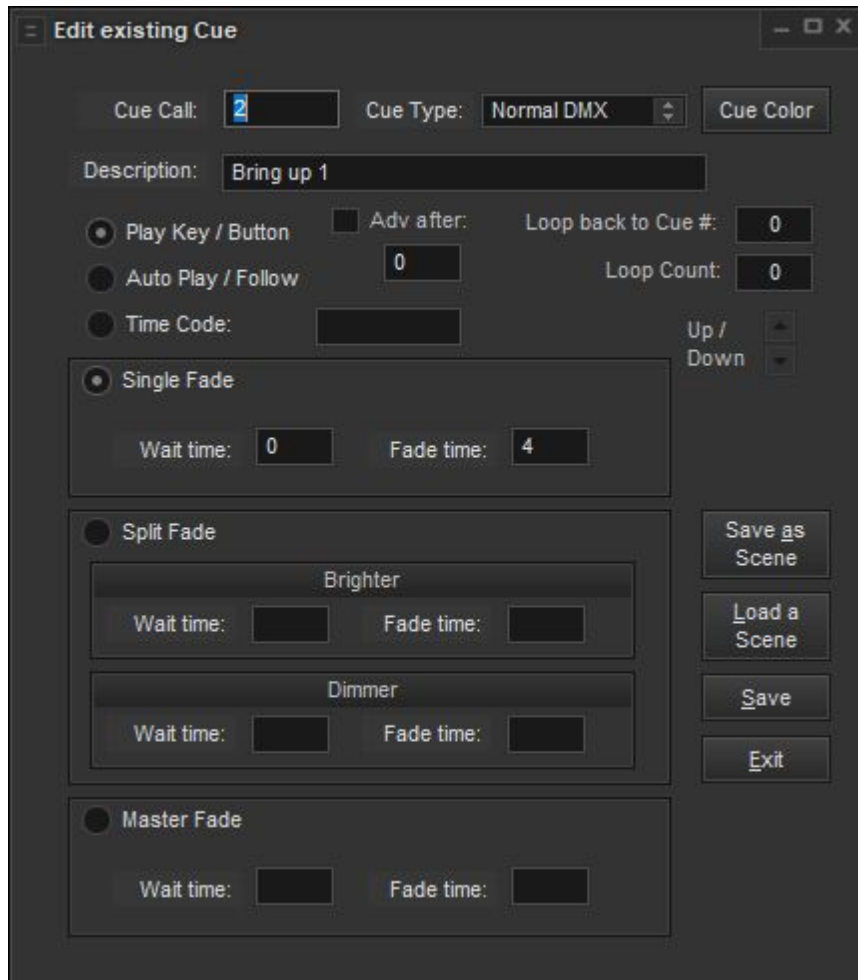
The first group is the Files section. The icons trigger the activity for creating a New cue file, Loading an existing cue file, or Saving As (for backup) the current cue file. Individual Cues in the current file are saved via the Record icon as the show is developed, so there is no Save icon.



The edit group has the triggers for Cut, Copy, Paste, and Save as.... Selecting a cue in the list will gather all the dimmer levels for that cue. Cut will remove the cue from the list, but keep the levels in memory. Selecting another cue in the list and clicking Paste will insert the the saved cue above the selection. Copy follows the same action, but keeps the current cue in place as well. Save as... will allow you to enter a cue call number and save the cue at that point. It is possible to overwrite existing cues that way, so a reminder prompt will appear in that case.

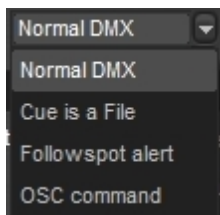


This is Add, Change Channel, Insert After, Insert Before, and Delete. Before and After would be relative to the currently selected cue. Delete will simply remove the cue from the list. The add screen will appear for both Add and Insert:



Here you can enter the cue call number, select the cue type, set the color for the Description text, and then the text itself.

The Cue Type dropdown shows 4 choices: a normal DMX cue for setting light levels or fixture settings, a cue that uses another cue file to run (nesting), a Followspot alert, using the included program 'playwin.exe', and an Open Sound Control (OSC) command to be sent.



A file cue could be something like a chase or lightning that you created as a separate cue file. With an additional monitor connected to this computer, the Followspot alert will show the cue description on that monitor in the background color of the cue text here. The network connection is defaulted to port 5200 for host 127.0.0.1 (the local machine).

Selecting an OSC command will change the window to this:

The screenshot shows the 'Add a New Cue' dialog box. At the top, 'Cue Call' is 80 and 'Cue Type' is OSC command. Below that is a 'Description' field. There are three radio buttons for 'Play Key / Button', 'Auto Play / Follow', and 'Time Code'. The 'Auto Play / Follow' option is selected. There are also checkboxes for 'Adv after' and 'Loop back to Cue #' (set to 0), and a 'Loop Count' field (set to 0). There are 'Up / Down' arrow buttons. Below these are three fade options: 'Single Fade', 'Split Fade', and 'Master Fade'. The 'Single Fade' option is selected, with 'Wait time' and 'Fade time' (set to 3) fields. The 'Split Fade' option has two sub-sections: 'Brighter' and 'Dimmer', each with 'Wait time' and 'Fade time' fields. The 'Master Fade' option has 'Wait time' and 'Fade time' fields. At the bottom is the 'OSC Command' section with a 'Command' field, an 'IP Address' field (192.168.1.25), and a 'Port #' field (50554). On the right side, there are buttons for 'Scene', 'Load a Scene', 'Save', and 'Exit'.

The parameters for the OSC command are the command itself, the IP address of the receiving device, and the port number that device is listening to.

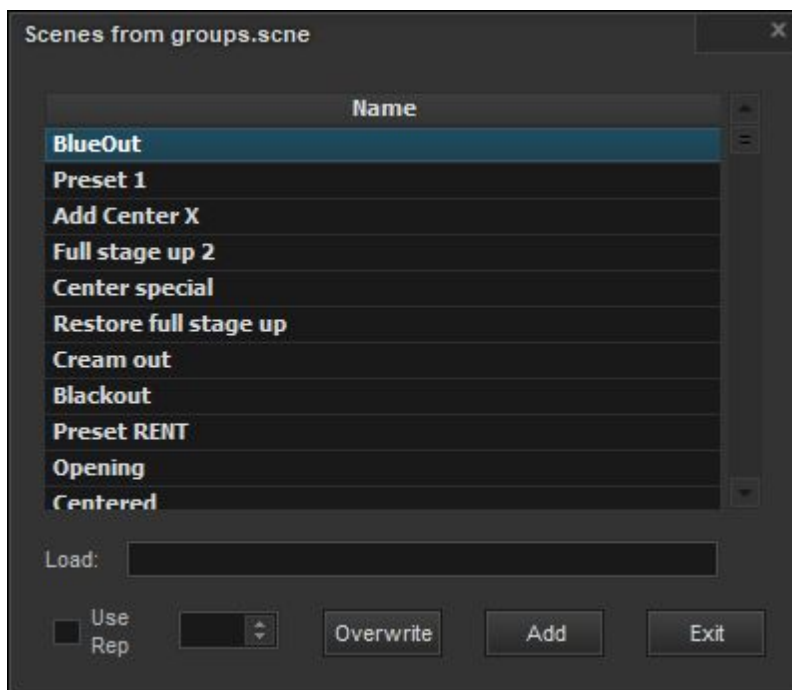
Following that are the characteristics of the cue itself. If Auto Play is checked, the cue will execute when clicked or after the previous cue has completed. For a quick sequence of cues, using a timecode trigger may be needed. A timecode generator is available from the Baxel Data website. Advancing after a time allows for running several fades at once. The cue will start and if the next cue is set to Auto Play, then it too, will run after the entered delay. Although similar to entering a wait time in the Auto Play cue, if the same channel is changed in both cues, the rate of change will be different. Looping over several cues is allowed. The number of the starting cue and how many loops can be entered. The loop can be stopped immediately by the Stop button on the toolbar or the Pause/Break key. If the Space Bar is pressed,

then the loop will finish a cycle before moving on.

The currently selected cue can be moved up or down in the cue list via the arrows.

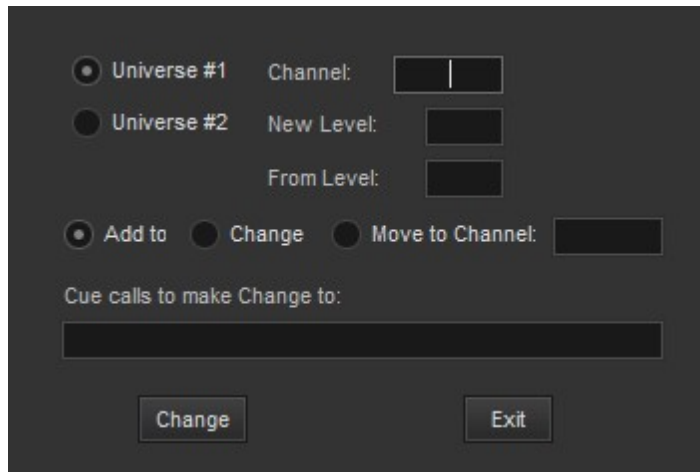
Cues can be a Single fade, Split fade or Master fade. A Single fade starts after the Wait time and proceeds over the Fade time to move all the selected dimmers to their new values, brighter or dimmer. A Split fade will treat the dimmers going brighter and those going dimmer differently according to the values set in the Wait and Fade values. A Master fade will fade out all channels, including any settings of an active submaster. All transitions are stored by channel so multiple scene fades can be active at the same time.

The current channel values can be stored in their entirety as a scene for future use. This screen will open to allow additions and selection:



When you save a scene you may name it what you wish, Save, and it will appear as the next line item. When recalling a scene, click on one of the listed lines. To delete a scene, blank out the name. The leftmost button will change titles from Save to Delete. If you select a scene, buttons will appear to allow you to Overwrite the current channel levels with the ones from the scene, or to Add the scene levels to the current ones. A scene may be assigned to a bumpbutton. The far left dropdown is used to select the key to enable or blank to disable. Whether bump scenes are added to the existing levels or are the levels themselves is set in the "BumpOvrRpl=" entry of the CPLighting.ini file. 1 is add, 0 is alone. When working with a cue file set to use its own auxillary files, the Use Rep checkbox will switch the selection list to that of CuePlayer itself allowing use of a master scene list.

Change Channel will pop up this screen:



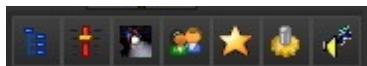
This allows you to change a channel setting to existing cues. If 'Add to' is checked, then the Channel number and Level entered will be added to the Cue calls in the list. The list can be individual call numbers or a range (e.g. 1,4,8-20). Useful when a light is added to or removed (level=0) from existing cues. Checking will change the level of the channels in the list from an existing level to another. For example, channel 10 could be changed to level 80 only where it is currently 50 in the list range. If 'Move to Channel' is checked then the level of the Channel will be transferred to the "move to" Channel. The original channel level will become 0. Useful if you're moving a light from one channel to another.



The runtime group has buttons to turn Blind mode on or off, Autoadvance on or off, to Record the current cue levels (the Enter key will also record), and to Play a cue. The space bar will also Play the cue. To Play a cue immediately, without fades, right click the Play button. Pressing the space bar and the Ctrl key together will also play the cue immediately. Turning Blind and/or Autoadvance off is useful during cue setup and can be toggled with the F4 and F5 keys so you don't have to use the mouse.



The first X will break out of a loop or stop a running cue. The Pause/Break key will also. The second X is the Blackout button. All dimmers will be set to their minimum value, which may or may not be zero. The ESC key will also do a blackout.



These buttons are for the additional functions of setting up Softpatches, Submasters, Fixtures (LED lamps), Groups, Magic Sheet, Preferences, and Connecting to Cue Player Premium. These functions are explained under their own Help topic.

Cue List

Cue List



Cue List

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Call	Description	Time	
10	dummy	2	
15	loop middle	2	
20	loop test	2	
30	Normal cue to follow	3	
40	This is a test of the length of the cue descri	0	
50	Our first loop cue!	2	
60	And then what?	5	
70	Timed fade	10	
80	Follow on dim	4	

The Cue list has 4 columns. The first is the Cue Call or the number of the cue that the stage manager will call to be played. The second is the description of the cue as it relates to the show, where the light is, what action is taking place, etc. The third is the Time or duration of the cue, in seconds or tenths of seconds. If the cue is a split fade, both times will show. The final column displays a blue play icon if the cue is an autoplay cue. The description will also be indented by one for an autoplay cue. An Advance at Start cue is indicated by the blue down arrow. A Loop cue will show the curved arrow. The cue you are sitting in (has been played) is marked in orange. A playing/in process cue will be colored blue and a progress bar will appear at the top where the 0 is now.

111	Normal cue to follow it	3	
116	OSC command	0	
121	File cue	3	

An Open Sound Control (OSC) cue will be indicated by a small block 'OSC', a cue that runs another cue file will show a file folder icon.

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Channels

Channels



Channels

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Each channel has its own level box. The channel number is shown, along with a red alert icon indicating that it is selected for level setting or not, and finally, a field for the level itself. Cue Player Lighting will support up to 1024 channels. The number of channels displayed depends on the screen size and will automatically display as many as it can based on the window size. The additional (leftover) channels will appear on subsequent tabs across the top. The total number of channels is set in Preferences under "# of Channels".

Channels are selected in the same manner as items in a list in other Windows programs: single click in the box will select just that dimmer, Ctrl-Click will select individual dimmers, keeping previous ones, and Shift-Click will select the range of dimmers from the first to the one Shift-clicked. A right-click on a selected channel will unselect it. Holding the mouse down and dragging will select the channels the mouse rolls over. The Delete key or clicking any clear area on the main screen will clear all selected channels.

The level can be set by typing a number in the level field, or from the keyboard. Up and Down arrows for a change of one, Page Up/Page Down for a change of 10, and Home/End for a change of 100. The mouse wheel can also be used to scroll values up and down.



A channel can be locked by double-clicking the box. Once locked, it will not change

from its current value as cues are run. The intended use is for an emergency or burn-out recovery during a performance.

Levels for intensity go from 0 to 100. Levels for colors of LED fixtures and scrollers can go from 0 to 255. That is also a Preferences setting.

Commonly used groups of channels can be defined. See the Groups topic for more information.



Active Submaster channels will have a turquoise colored dot. If the submaster is taken down to 0, the dot will disappear.

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Clock/Timer

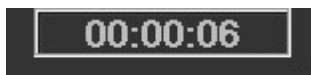
Clock/Timer



Normally, the upper right corner of the Main screen shows the current time. The text color is set from the Preferences screen. During rehearsals, however, there is often a need to record the run time of the act or show. Right clicking the clock will bring up this menu:



Selecting 'Start Timer' will change the clock display to this:



Which is simply a running timer. It can be paused or resumed from the menu, or the clock can be returned to display.

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Softpatch

Softpatch



Softpatch

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Chnl	Dimmer-DMX	Fixture	Description
1	1		
2	56/50		
3	3		abump8
4	4		
5	5		abump12
6	6		
7	7		
8	8		
9	9		Channel 9
10		250	
11		260	
12		230	
13	13		
14	14		
15	15		

19	19		
20		331	
21	21		
22	22		
23	23		
24	24		

This shows the top and bottom of the softpatch screen. The actual height will depend on the height of the main screen. Softpatching is a powerful way to customize how you control your lights. If you are not familiar with it, simply, it is the way to have one or more dimmers controlled by a single channel on the main screen. If there are several lights aimed at a particular portion of the stage at various angles, this allows you to set the light level with one channel. The ability to do this is enhanced by the feature of proportional dimming. If you look at Channel 2 in the picture, you will see that dimmer 56 is

being set. It has the extra notation of /50 meaning that it will, at most, go to 50% of total brightness. Taking channel 2 from 0 to 100 will therefore have the effect of changing dimmer 56 from 0 to 50.

Fixture mapping makes it easier to work with LED fixtures. It allows one channel to control the colors and intensity of a fixture. In this example, there are LEDs with their address settings at 230, 250, and 260. That is, 230 is the dip switch setting, Red may be at 230, Green at 231, Blue at 232, and Intensity at 233. All that is specified in the fixture's profile. With fixture patching, entering "100R80" into the channel field of channel 12 will set all of those 230-233 channels to the right value. A right click of the channel field will bring up the fixture's color picker so any other color can be selected and mapped to the correct 230-23x channels. Rather than the complete "100R80", just an intensity value or just a gel number from either the gel wheel or the user wheel can be entered. This also allows for easy grouping of multiple fixtures. For example, if there are 4 identical fixtures covering an area of the stage, they can be set closely together up in the 400's, but fixture mapped so that channels 10-14 control them, it makes it easier to write cues. They could even be set as a Group so that "g4" selects all of them.

The Description column has the text that will appear as a hint when the mouse is hovered over a channel box on the main screen. If the word "nbump5" is in the description, then that channel will bump to 100% when the F5 key is pressed. "nbump6" works with F6, "nbump7" with F7, and so forth up to 12. If the word is changed to "fbump5", then rather than a zero count fade when the key is released, a timed fade will happen. The time is determined by the "BumpFade=" entry in CPLighting.ini. A value of 10 is one second, 5 is 500 msec., for example. Timed bumps for F5 would be done with "tbump5(x.x)", where x.x is the duration in seconds. For example, "tbump7(4.3)" would bump the channels where that was in the description for 4.3 seconds when F7 was pressed, even when released sooner. Entering "abump5" acts as a toggle switch for that channel and key. Any toggled keys will display on the top line above the clock.

At the bottom of the screen, the Unpatched Dimmers button will show a window with a list of all the available or unassigned dimmers. Sorting the rows can be by Channel or by Dimmer. Save will record any changes and Exit will close the screen without saving.

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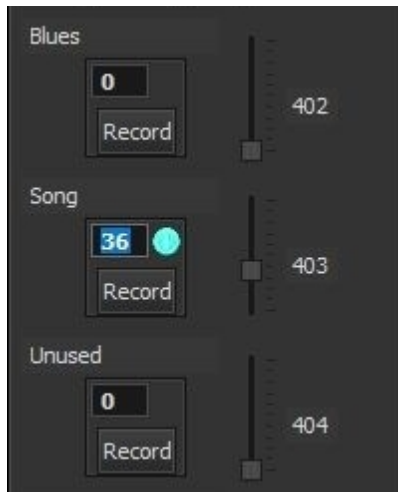
Submasters

Submasters



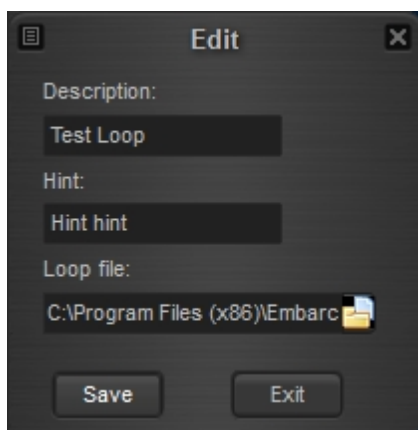
Submasters

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There are 8 submasters available in Cue Player Lighting. When the Record button is clicked, any channels with an active red dot will be recorded into the submaster at their current level. An easy way to select channels is to use the "g/" keystrokes to select all active channels. The sequence would be to have the scene levels you want to have on the sub be visible, its channels selected with red dots, have the sub slider at the top, and then click Record. The submasters are additive with a Higher Takes Precedence based on the previously run cue.

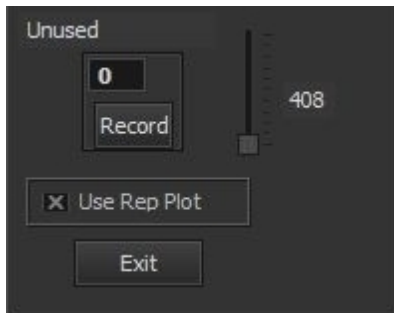
The Add/Edit screen looks like this:



It is opened by clicking in any of the 8 top description boxes. The Description is shown as the top line for that submaster, the Hint when the mouse is over that top line. A submaster can also run a loop file independently of the main channel settings. This allows you to bring up an effect without changing the rest of the stage. Blanking out the Description and saving will delete the settings and change the title to 'Unused'.

Submasters can be assigned to a channel via Softpatch. Submasters are numbered after the total channel count. That is, if there are 128 channels in the main display, the subs are numbered 129 to 136 and can be softpatched to any of the other 128 channels. An example use would be to have a chase effect as a cue/loop file assigned to Sub 1 (129), patched to 120. If 120 is in a cue the chase is dimmed and brightened according to 120's value in the cue(s).

You may have a submaster channel selection for the current cue file or an independant one as a Rep Plot.



Check the box to use a Rep Plot and uncheck to align with the current cue file. A good use of the Rep Plot setting is in conjunction with a slider surface. A midi device like the Pyle PMIDIPD30 can be used to control the 8 submaster channels.



Here sliders 1-8 match up to subs 1-8. You could have each sub control a stage area or LED color and run a presentation or book reading where you didn't want to create a cue file. The Pyle bump buttons under each slider are active as well.

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Fixtures

Fixtures



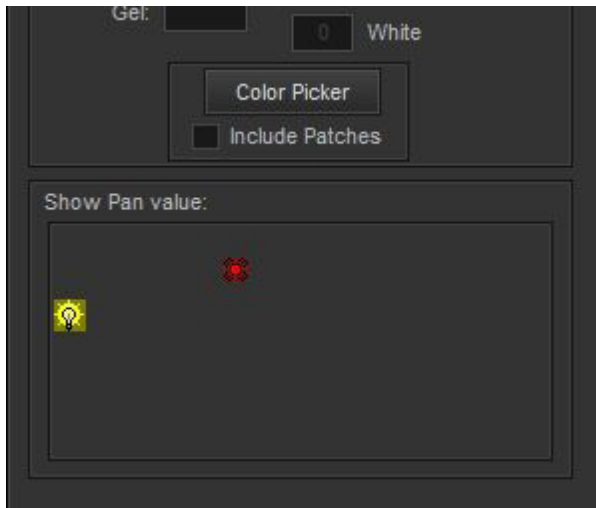
Fixtures

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The Fixtures screen is designed to work with the newer LED lighting instruments and any color scrollers you may have. The first step is to select a particular fixture from the top dropdown. One of the options there is to Add a new fixture. Unfortunately, there are only about 20 profile files included in this install. If you add fixtures, it would be great if you could forward their settings back to Baxel Data and we will include them in future software releases.

Having selected a fixture, the starting DMX address of an installed fixture of that type and a Note to be used as a hint on the main screen would be entered and Save clicked.

If the selected fixture is a moving instrument - indicated by having a channel labeled "Pan" - the color scroller area will change to this:



Here a left click in the box will position the fixture and a right click will position where the light will go. This will indicate the correct Pan setting in the upper right corner of the box. The Save button will put the colors and the Pan in the correct channels.

Adding or editing a fixture will bring up this screen:

Add a Fixture

Fixture Name:

Fixture Description:

Chnl.	0-??	Description
1	<input type="text"/>	
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		

Total # of Channels:

Minimum Intensity: (0-255)

Intensity Channel:

Red Channel:

Green Channel:

Blue Channel:

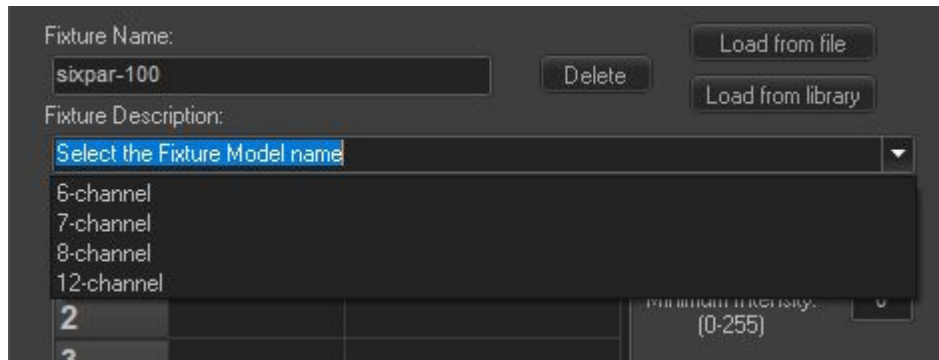
Amber Channel:

White Channel:

Lime Channel:

DMX for 360:

The Name and Description are the text you want to recognize the unit by. Known fixtures that have a local profile already can be loaded via the Load from File button. Newly installed fixtures may have a known public domain profile. Load from Library will open a file manager window to select the manufacturer. From the manufacturer, the next file window will show the various models of instruments they make. The final selection is from the Feature Description field dropdown of that fixture's options:



The screenshot shows a software interface for configuring a lighting fixture. At the top, there is a 'Fixture Name' field containing 'sixpar-100' and a 'Delete' button. To the right are two buttons: 'Load from file' and 'Load from library'. Below this is the 'Fixture Description' section, which features a dropdown menu currently displaying 'Select the Fixture Model name'. The dropdown list includes the following options: '6-channel', '7-channel', '8-channel', and '12-channel'. Below the dropdown, there are several input fields, including one with the number '2' and another labeled 'Minimum Intensity' with '(0-255)' below it.

The DMX channels for the colors, intensity levels, and movements need to be entered, as well as the total number of channels to set aside for this fixture. The minimum setting for Intensity can also be entered. You can select whether the display goes from 0 to 100 or 0 to 255 and enter a channel description that will show up as a hint for that channel on the main display. When you Save, a file will be written you can use to Add.

A completed screen could look like this:

Fixture Name:

Fixture Description:

Chnl.	0-??	Description
1	0-255	Red
2	0-255	Green
3	0-255	Blue
4	0-255	White
5	0-255	Amber
6	0-255	UV
7	0-100	Intensity
8	0-255	Strobe
9	0-255	Walking
10	0-255	Sound
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		

Total # of Channels:

Minimum Intensity:
(0-255)

Intensity Channel:

Red Channel:

Green Channel:

Blue Channel:

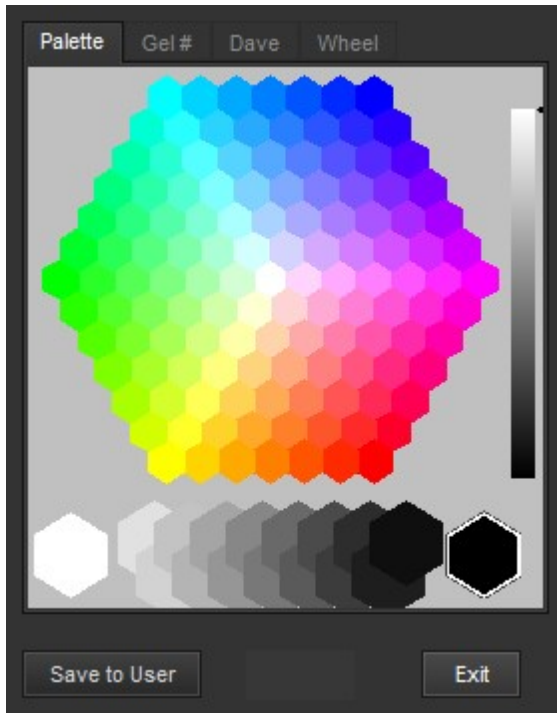
Amber Channel:

White Channel:

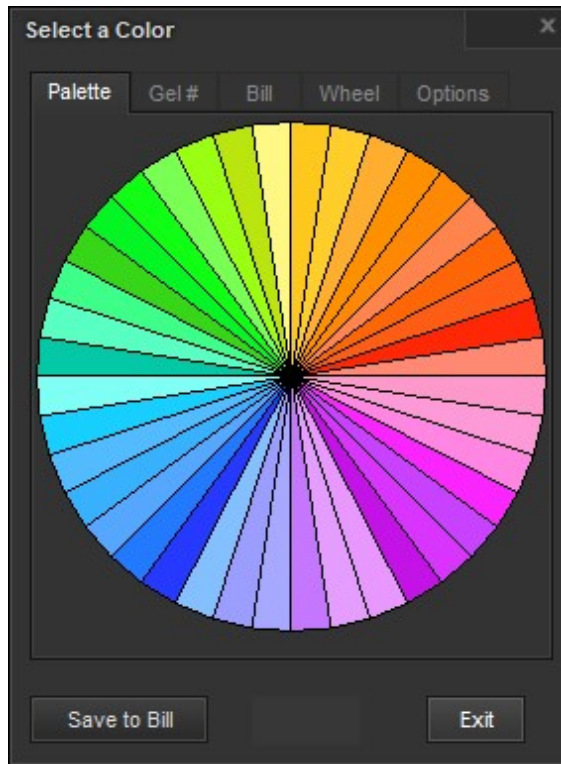
Lime Channel:

You only need to do this once for each type or model of light instrument installed. This profile is used when the program is assigning values for color selection and intensity particularly in palette selection.

Going back to the Fixtures screen, having selected a fixture type, the address or addresses of where these fixtures are installed is entered in the Add and Remove box.



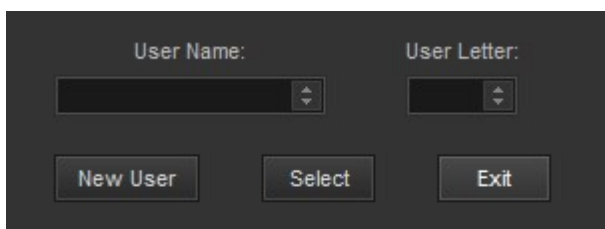
3 Color



5 Color

Next, using one or more of those addresses, a color picker can be displayed to choose the combination of RGB needed to produce the color you want. Also, entering either a Roscoe (Rxx) or Lee (Lxx) gel number will show its color and corresponding RGB values. If the Show Now checkbox is checked, the colors will be sent to the fixture as you move the mouse. If the Include Patches is clicked, then any softpatched fixtures to that address will also show the color. When the Save button is clicked, these values will be written to all the correct locations for the fixtures you selected.

To make it easier to select often used colors, the concept of a "user palette" is available. The LED values need to produce various colors will vary from manufacturer to manufacturer and/or fixture type to fixture type. The values used by each lighting designer to make the colors consistent at a venue can be saved and recalled.



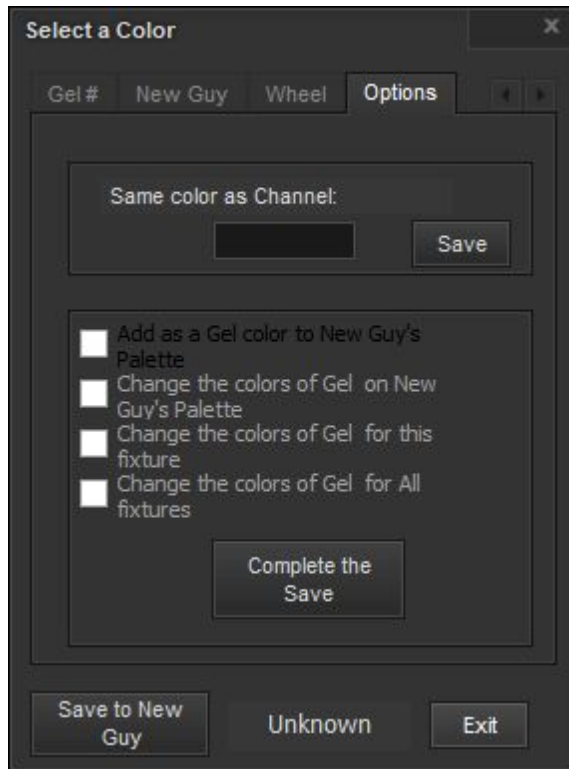
Is brought up from the Preferences window and is used to establish a designer's palette. A new user will automatically be given a 16 color palette of the Wybron scroller gel colors to start. The "Save to" button will switch to the Options tab as described below. Here is an example of a user palette:



To use palettes, enter a value in the level field of the palette (arbitrarily picked as the Red) channel. For example, a fixture is set to address 150 and it's Red channel is 1. Normally, Red would therefor be set



by values in channel 150. In the channel display it will appear like this: Entering a user palette number in channel 150 (e.g. "D3") while the Shift key is pressed will set all the LED addresses of the fixture to the stored values for that palette color.

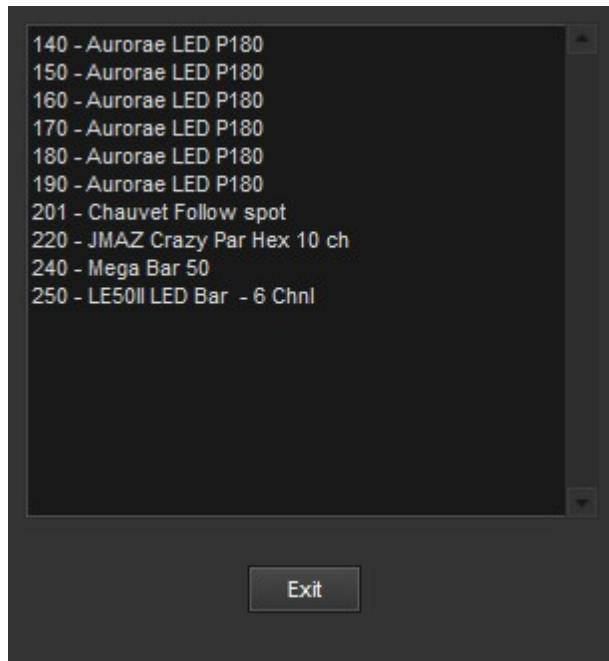


To manage the user palette, the Options tab has selections to Add a new color, as shown in the square above "Show Now" and represented by the current values in the Red, Green, Blue, Amber, White fields. The colors of an existing gel can be reset for the palette, the current fixture, or for all fixtures. For example, if you need to adjust the colors for R80 or B2 for fixture "ABCD" and/or fixture "WXYZ", you can save them here and they will be recalled when that fixture is selected. If you have selected a color on a particular channel and you need to save it to others, select the channels you need to have that color (red dot), enter the channel number of the fixture showing the desired color and press Enter or click Save. The color values will be copied to all the other fixtures of the same type or not.

A right click in any channel box of a fixture will open the fixture window with the installed address selected.

Entering in the addresses of the scroller channels will allow them to be set from 0-100 or 0-255 as per your Preferences and not be affected by a Blackout command.

The 'In Use' button will bring up this screen for example:



A list of the currently assigned channels and their fixture names serves as an aid to adding new instruments.

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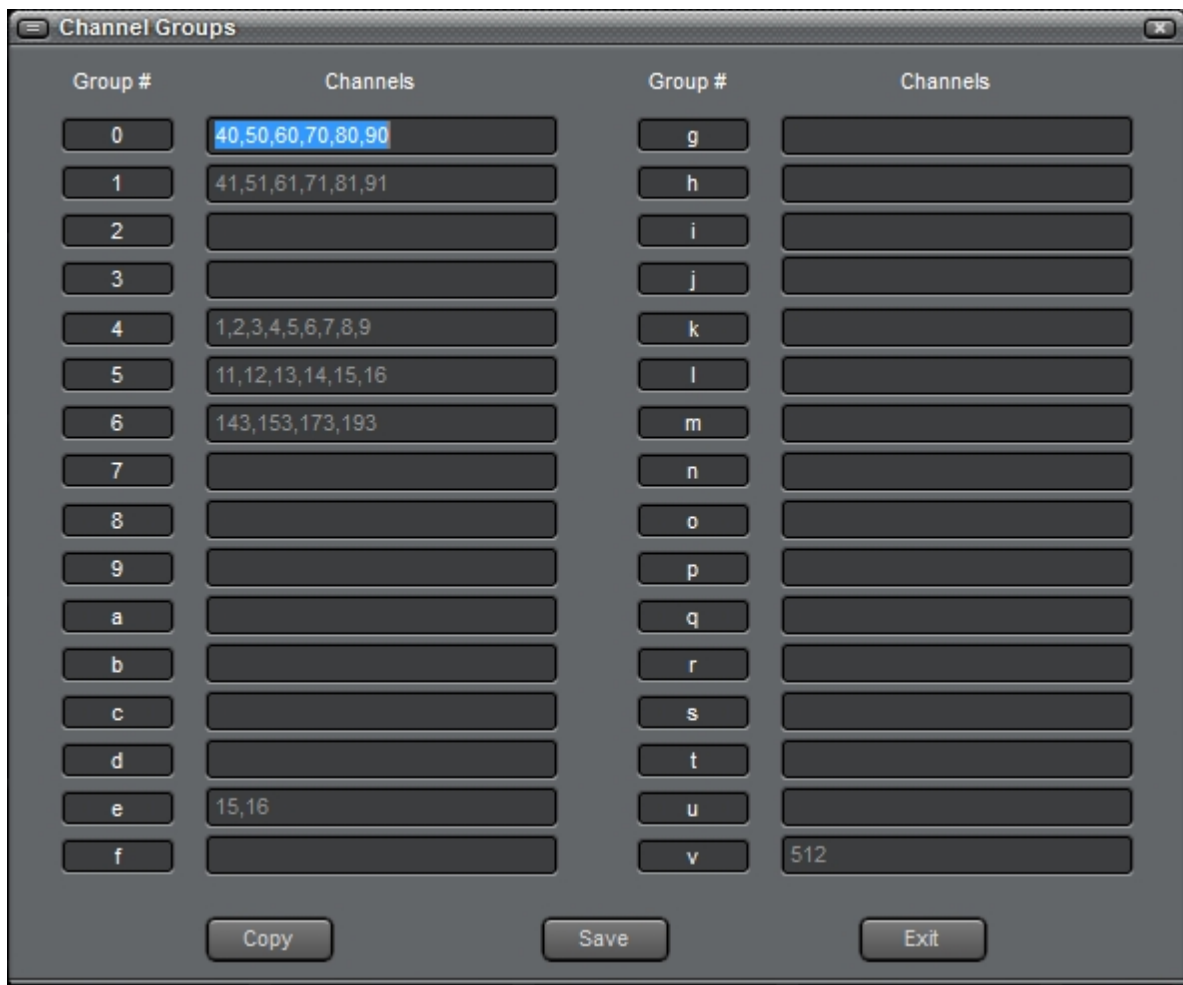
Groups

Groups



Groups

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Groups of channels can be defined to quickly select those channels instead of individually clicking them. For example, if your blue back lights are in channels 11-16, typing "g5" on the keyboard will automatically select and show the red dot of all of those channels. Typing "g/" will select all non-zero active channels in a cue. The entries can come from a file specific to the show's cue file or from a generic file linked to the program. That is a choice on the Preferences screen. If it is clear and you want to start with the generic file, click Copy.

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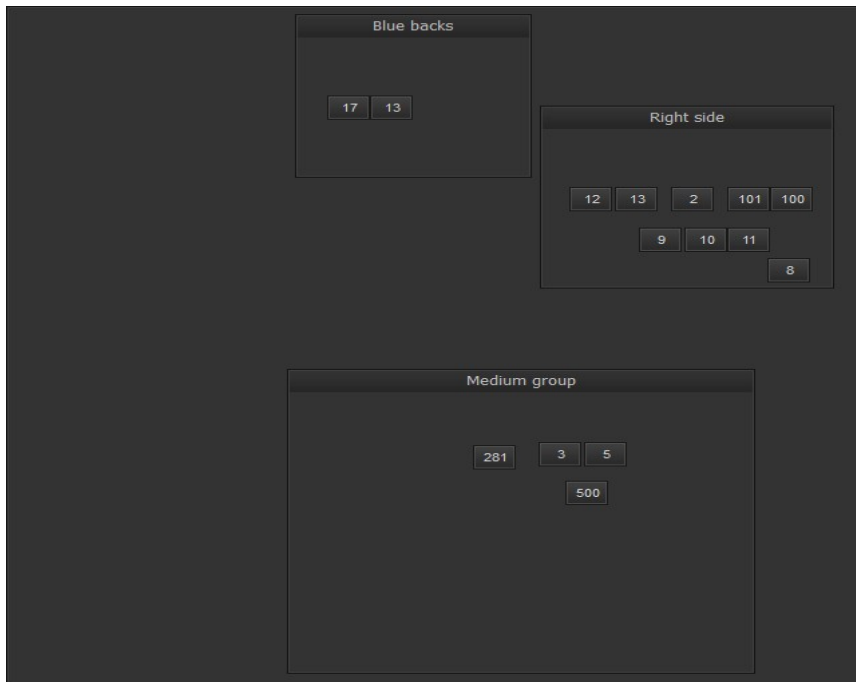
Magic Sheet

Magic Sheet



Magic Sheet

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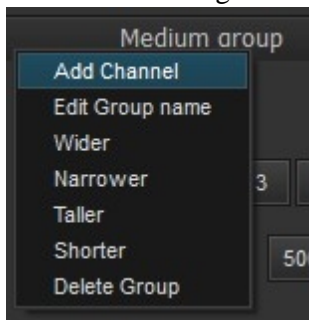


A Magic Sheet is a tool that allows a graphical display of instrument locations and channel selection of those instruments. Groups of lights may be defined or broken out for quicker selection. Clicking on a channel button here will select and move the mouse to that channel on the channel grid. The intensity and color are then set as normal. The sheet can be resized and moved as needed.

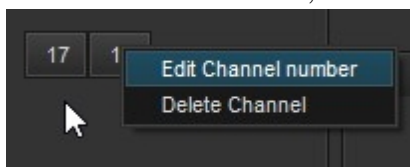
Adding a group area is done with a right click anywhere on the sheet.



This menu will appear. Since the group areas cannot be resized with the mouse, a choice of starting sizes is offered. Once created, the group can be resized by right clicking within it.



The menu is also used to name the group and add channels to it. Once a channel is created, it is named using its own menu.



Channel buttons may be dragged and positioned anywhere within their group box using the left mouse and Shift key together. There is a small snap-to feature to make it easier to align rows and columns of channels.

The intent is to aid cue writing by showing the channels used for various physical locations of instruments. Additionally, clicking and holding a channel button will light up the light used by that channel.

LEDs will also get R, G, and B set in addition to intensity so you can see them.

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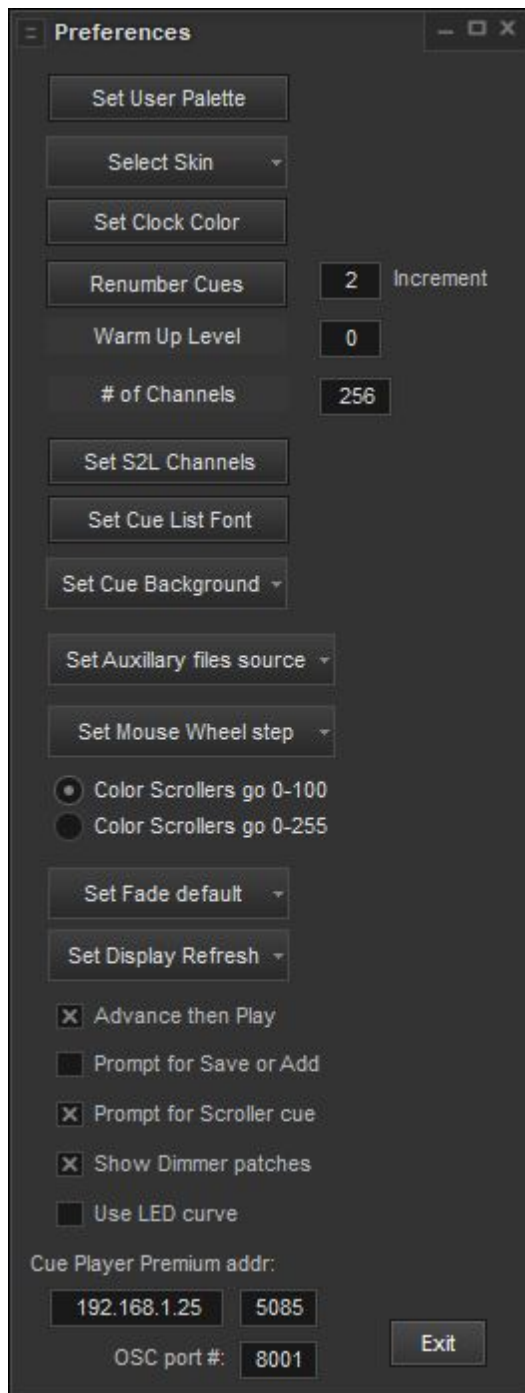
Preferences

Preferences



Preferences

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This window controls the operational settings for the program. First, the palette of the current user is identified. That is explained more under '[Fixtures](#)'. Second, you may select the skin, or appearance of the program. The Help file pictures were taken with Smart Style or Air 2 selected. Snow Leopard will give an Apple computer look. Setting the Clock color will affect the running clock in the upper right corner of the main screen. After a cue list is written, it can be renumbered by the increment indicated. A Warm Up Level other than 0 can be specified and would be the minimum level for incandescent lamps.

The number of channels used or displayed can be set up to a limit of 1024 depending on the USB interface. Most interfaces are limited to one universe or 512 channels. It is recommended to set it to the actual number of channels you have at your venue.

The channels and minimum levels for use with the ETC program Sound2Light can be set. More details are found under the Connections topic of Sound2Light.

The font and font size of the cue list can be set to what pleases you. The background color of the cue list can be lighter or darker.

The source of the soft patch file, fixture map file, Submasters, Scenes, and Groups can be set to be either common to CP Lighting or to the current cue file. If you are in a fixed location, "By program" makes sense, if using a laptop at multiple venues then "By Cue file" may work better for you. When you create a new cue file, you may choose existing files to be copied as a start.

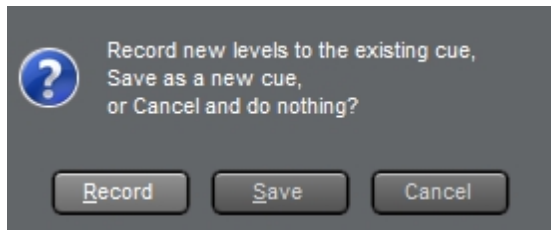
The change amount for levels at each movement of the mouse wheel can be set to 1, 2, 5, or 10.

Your color scroller levels can go from 0-100 or 0-255. If 100 is maximum, then they are internally multiplied by 2.55.

Set Display Refresh determines how frequently, or if, the level settings of the channels scroll to their new levels as a cue is being played.

Advance then Play will have the cue list behave in a similar fashion to an ETC board. That is, if you are sitting in cue 50, for example, and the space bar is hit, the program will advance to the next cue and start playing it. If Advance and Play is unchecked, then the program will behave more like Cue Player Premium and play the cue line selected.

Prompt for Save or Add will bring up a message box asking if you want to save the current values to the current cue or add them as a new cue when Enter is pressed. The setting can be toggled by using the Ctrl key in addition to Enter. This is the prompt:



If you have any color Scrollers listed in the Fixtures screen, Prompt for Scroller cue will bring up a prompt whenever a cue has a color change asking if you would like to add a cue prior to it to change the colors before you bring up the intensity.

Next, you can choose to always show the patched address of a softpatched channel when it is clicked on the Softpatch screen or not. The address is very useful after a cue file is built, but gets tiresome during construction.

The last option checkbox will have the program use the dimmer values from a file 'led.txt' in your install directory. Rather than a straight line dim, the dmx values sent as you approach zero will be more exponential to give a soft landing to dim. There is nothing that can be done to overcome the 1 to 0 level dip in inexpensive LED fixtures, but this may help the visual perception of it.

The network address and port number of a computer running Cue Player Premium can be entered and when the Connect to Cue Player tool bar button is clicked, a connection to that computer will be established. This will allow that computer to have lighting cues in its cue list so that one operator can control both sound and lights.

Finally, the port number used to listen for OSC commands from other devices can be set. See the OSC

help topic for details.

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Connections

Connections



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Connecting to CPP

Connecting to CPL



Connecting

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Connecting to Cue Player will display an orange dot at the end of the tool bar. The address and port must have been set in the Preferences tool previously. Cue Player Premium itself will display a Cue Player Lighting icon at the top of it's main screen to indicate it is connected.

This program will or can continue to run just as if it is not connected. Cues can be selected, edited, run, etc. without any regard to the connection. If, however, a command from Cue Player Premium is received, it will execute immediately. There are only 6 commands it will receive: Play ##, where ## is a cue call number, Goto ##, Stop to stop a loop, Black, which causes a blackout, Next And Back to play either the next or previous cue. As an example, if you are sitting in cue 40 and the command to "Play 70" comes in, the software will jump to that line and play the cue.

The default port for network connections from CPP is 5085.

To send a command to CPP, you must use OSC. The default address of CPP is /cpsound. To play cue line 26, for example, enter "/cpsound/play 26" as the command.

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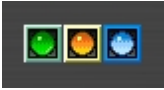
Connecting to Video and Remote

Connecting to Video and Remote



Connecting to Video and Remote

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Several options for connections to CP Lighting are possible. If connected, their circle will appear.

As described in the previous topic, a connection to CP Premium for triggering of cues from that program is indicated by the orange circle.

A connection to the video player for remote display of followspot cues is indicated by the green circle. If there is a followspot cue in the cue list, the video player window will open automatically and you can send it to the second monitor. The default port is 5205.

A connection to the remote control app, for either Windows or Android tablets, will show the blue circle. The default port is 5200.

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OSC

OSC



Connecting to OSC (Open Sound Control)

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Cue Player Lighting can be a client to another OSC application such as Cue Player Premium or a sound mixer or conventional lighting console.

As delivered, CPL will listen for commands on port 5555 addressed to "/cplight". Valid commands are "play xx", "goto xx", and "black", where xx is the cue line number of a cue list. The network settings can be changed by editing the CPLighting.ini file.

There is an [OSC test program](#) available on the web site to aid in setup.

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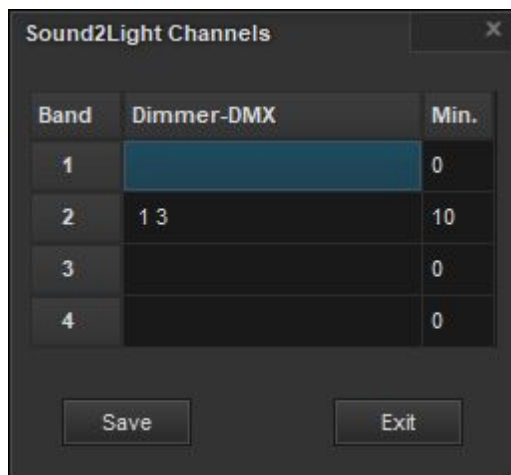
Sound2Light

Sound2Light

Sound2Light is a software product from ETC that monitors an incoming sound stream and outputs OSC messages depending on the frequency and level of the sound. Up to 4 different frequency bands can be monitored.

The software is available from this link: [ETCLabs/Sound2Light: UNOFFICIAL - A tool converting sound input to OSC trigger signals. \(github.com\)](https://github.com/ETCLabs/Sound2Light)

This screen is used to utilize the incoming OSC to CP Lighting:



The button to bring this up is in Preferences.

The Band is one of the 4 frequency bands S2L outputs. The Dimmer-DMX is/are the lighting channels that you want to control with the level values in the OSC messages. Min. sets a minimum lighting level that will be maintained regardless of the S2L message level. If you don't want the channels to go completely out, but gently flicker, then set this value accordingly.

To have CP Lighting respond to the S2L messages, first send an OSC message of `'../enable'`, where `..` is the OSC address of the CP Lighting instance. The default is `/cplight`. The default OSC output port of S2L is 8001. To turn off any S2L response, send `'../disable'`.

For example, if you are using Cue Player Premium as your sound source, you would set Premium's OSC output port to 8001 and then write an OSC cue of `/cplight/enable'` to start. Instructions and hints on setting up S2L inputs can be found on the previously listed link. Then another Premium cue with the triggering sound file could be played, followed by an OSC cue of `/cplight/disable'`.

CP Lighting will be expecting a UDP network protocol and messages of Console Type: EOS from S2L.

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Time Code

Time Code

For complex or fixed time sequenced cues, it may be desirable to use a time code signal to trigger cues. Such code is of the format `"hh:mm:ss:ff"`, where `h` is hours, `m` is minutes, `s` is seconds, and `f` is frame. This coding is commonly used in video productions to time sync multiple camera shoots or with musicians playing to a click track.

CP Lighting will accept OSC time code signals in the format "/TC/time hh:mm:ss:ff" whenever the "Enable TimeCode" option is checked. The default is to listen on port 50555. That may be changed in the cplighting.ini file in the entry 'Settings > TimeCodePort'.

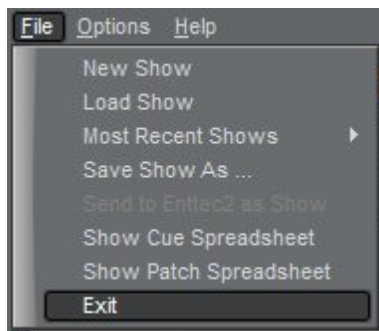
When 'Enable TimeCode' is checked, the setting for 'Advance then Play' in Preferences is automatically unchecked as the selected cue needs to advance in order to be triggered by the time code.

If the Baxel Data Systems time code generator is used, it may be started with an OSC cue of '/TC/time start' sent to the address and port shown on the bottom of the generator screen. Likewise, '/TC/time stop' and 'TC/time reset' will stop and reset the generator.

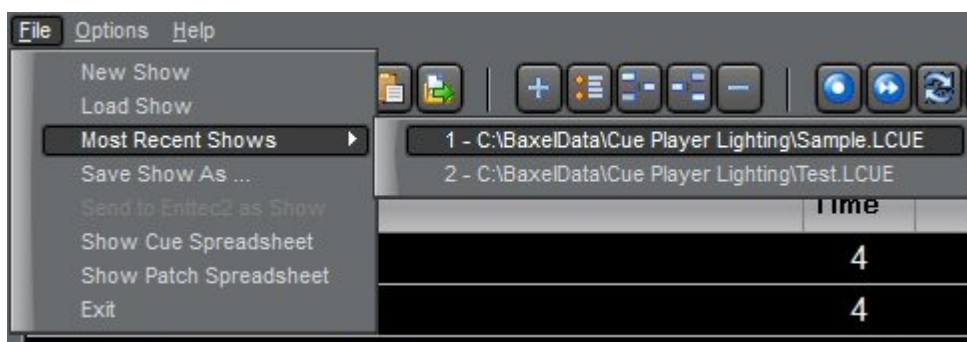
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File Menu

File Menu



The File menu deals mostly with the creating and loading of cue files. A New Show creates a blank cue file and Load brings up a file browser to locate an existing file. Up to the last 8 show's cue files will be listed as Most Recent Shows. It will look like this:



Saving Show as ... is used to create your own backup of the currently open cue file. Changes to the current file are saved as they are made so there is no plain Save option. Each time the program is shutdown, a copy of the cue file is made and named xxx_1.lcue, xxx_2.lcue, etc. Up to 4 previous versions are saved.

Show Cue Spreadsheet will display the current cue list as a spreadsheet which can be used for documentation. There are buttons on that screen that allow export of the contents as either an Excel spreadsheet or as a comma separated values (CSV) text file. In the same manner, Show Patch Spreadsheet will display the soft patches so they can be exported.

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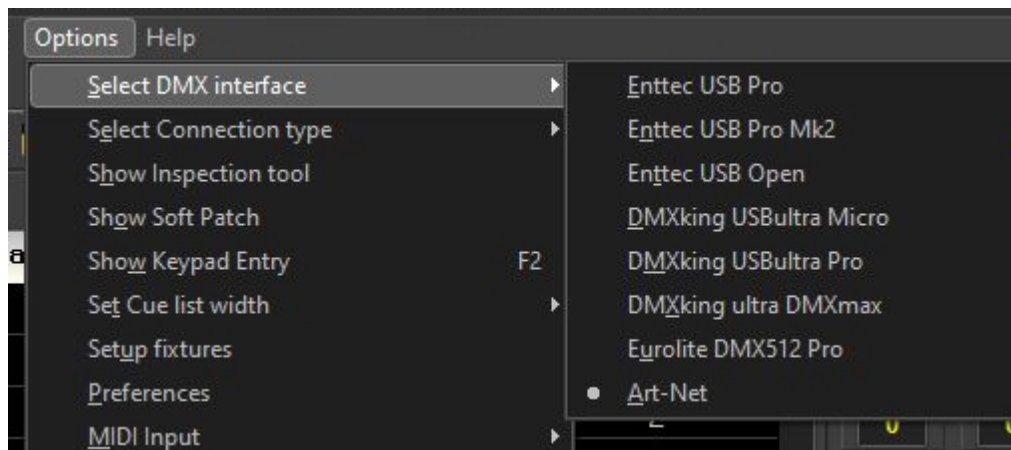
Options Menu

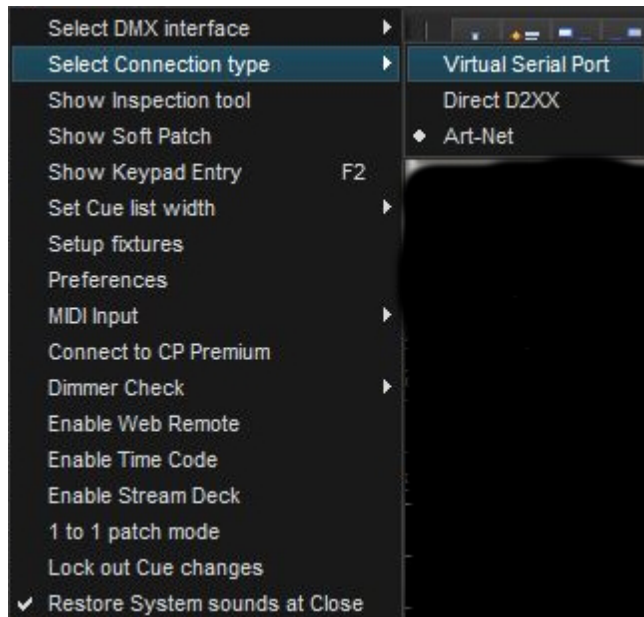
Options Menu



Options Menu

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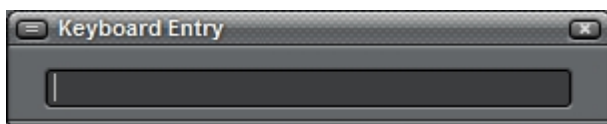
The options menu repeats several of the toolbar icons: Soft Patch, Fixtures, Preferences, and Connect to Cue Player.

The DMX hardware interface can be chosen. Changing it will dictate a restart of the program. Please note "Open" class devices are supported as of version 2.1.1.32

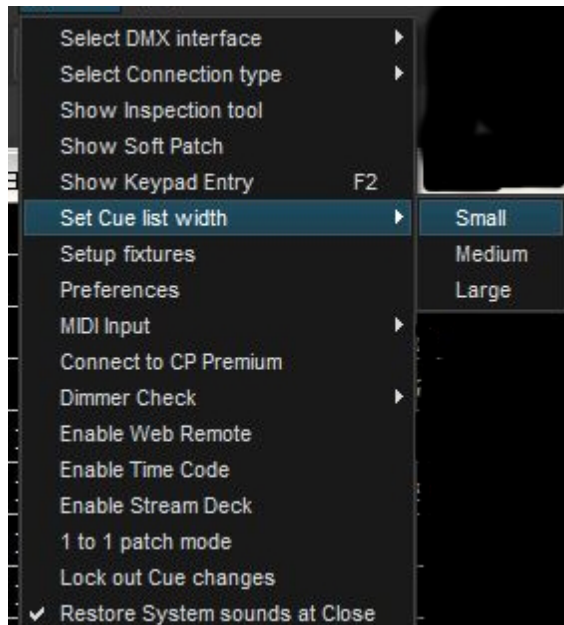
The DMX connection type can be via a virtual serial port which is universal, via direct calls to the FTDI interface library, or by Art-Net. The D2XX connectivity is getting phased out in favor of the virtual serial. Indeed, the latest dmx interfaces from DMX King require the Virtual Serial connection or Art-Net, depending on model. The [FTDI website will have any updates to the driver from the one distributed with CP Lighting.](#)

Show Inspection tool opens a viewing window and activates a logging function so you can see all the commands being sent to the DMX interface. It was used mostly during development of the program, but may prove useful. It is used to select the Art-Net IP address and allows 'under the hood' settings for LED fixtures. The tool has its own Help page.

Keypad entry of channel levels is enabled by showing the keypad entry window, either by clicking the menu or pressing the F2 key.



This window can be positioned anywhere and its last position is remembered. The syntax for entry is: "channels*level". A range of channels is written "start/end". For example, "2/10-5+12*80" would set channels 2,3,4,6,7,8,9,10,12 at 80. Pressing the - key on the numpad will give this window focus at any time it's open.



Setting the cue width will allow for more or fewer channels to be displayed over the rest of your screen. Often just the cue number and a short description aids selection.

The Dimmer check goes channel by channel and runs the values up and down so you can check the lights before a show. You can select automatic advance or manual. Press Esc to exit the check at any time.

Starting the Web Remote will activate the browser interface tool. It will sit minimized on the lower left of your screen. You normally do not have to do anything with it on your main screen. See the chapter on "Web Remote" to learn about the functions available.

Enabling Time Code will activate the network connection to allow OSC time code signals to trigger cue playing. Time Code under Connections has the details on use.

Enabling StreamDeck will enable use of a StreamDeck surface to select and display cue lines and then trigger them via the Deck. Stream Deck under connections has the details on use.

1 to 1 patch mode bypasses the softpatch file and maps channel 1 to dimmer 1, 2 to 2, etc.

Locking out Cue changes sets a flag such that the current cue file cannot be changed. It is remembered for the file and established whenever the file is reloaded. Unchecking the flag allows changes and will be remembered as well.

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Web Remote

Web Remote



The Web Remote tool allows editing your cue list from a browser on your phone or tablet.



To view this screen in your browser, enter the IP address of the computer Cue Player Lighting is running on followed by a colon and the number 8008. e.g 192.168.0.20:8008. You can check for the IP address in the Help > About popup window.

To play a cue, tap the 'Play' button and then the number of the cue line, followed by the 'Send' button. Setting a channel to a level is done with the 'Set' button, the number of the channel, the '@' button, and finally the level. For example "Set 20@30" will set channel 20 to level 30. Use the + and - buttons to adjust the level.

To find out the current level of a channel, tap the channel box to clear it, then enter the channel number, followed by the 'Read' button. The 'Record' button will write all your changes to the cue you last played. Use 'Next' and 'Back' to play the next or previous cue lines.

Inspection Tool

Inspection Tool



The Inspection tool is used to observe the program's DMX output, adjust any problems with LED fixture settings, and set the Art-Net IP address.

Inspection Tool

Key Pressed: Highlight:

Send

Read Fixtures Read Fmap

Rebuild Fmap

Reset Warmup Clear

I am "BigGuy"
IP: 192.168.1.11 - 5205
Waiting for CP clients...
Waiting for IP clients...

DMX addr: Start: Dim: Fixture: Write

Read

Art-Net

Poll Pick 1

Pick 2

When the tool window is open and a cue is run, the DMX output levels are displayed:

Inspection Tool

Key Pressed: Highlight:

Send

Read Fixtures Read Fmap

Rebuild Fmap

Reset Warmup Clear

1 American DJ 388 Pro,
 2 Aurorae LED P180,
 3 Stage Ape Wide Flood,
 4 Mega Bar 50,
 5 Mega Bar RGBA - 6 Chan., Long Color bar
 6 Stage Ape Toober, Disco twin lights - 59 is max dim, strobe after
 8 Mini Spot 15 - 13 Chan,
 9 LE50II LED Bar - 6 Chnl, 41 cm long
 10 SlimPar Quad 7 - 8 chnl, LED Flat Slimpar
 11 LED Cloud, DJ Flashing LED
 12 LED strip, 1/4'' led strips
 13 Chauvet Follow spot, LED 3 channel
 14 JMAZ LP76S Par 10 chan,
 15 JMAZ LP76S Par 10 chan.,

DMX addr: Start: Dim: Fixture: Write

Read

Art-Net

Poll Pick 1

Pick 2

The numbers identify which fixture may be assigned to a DMX channel.

The addresses and fixture numbers are stored in a set of tables called the 'Fmap'. There are three sections to the map and they can be viewed by the Read Fmap button:

Fmap(0) stores the starting address and number of channels for each fixture in use. For example, we can see that at address 140 there is a 6 channel fixture in place. The number 2000 is a dummy number for scroller channels.

Fmap(1) has the minimum intensity level for each address. In this case we have a minimum level of 1 for all conventional instruments. A -1 indicates a color, strobe, or macro channel and won't be changed by a Blackout command.

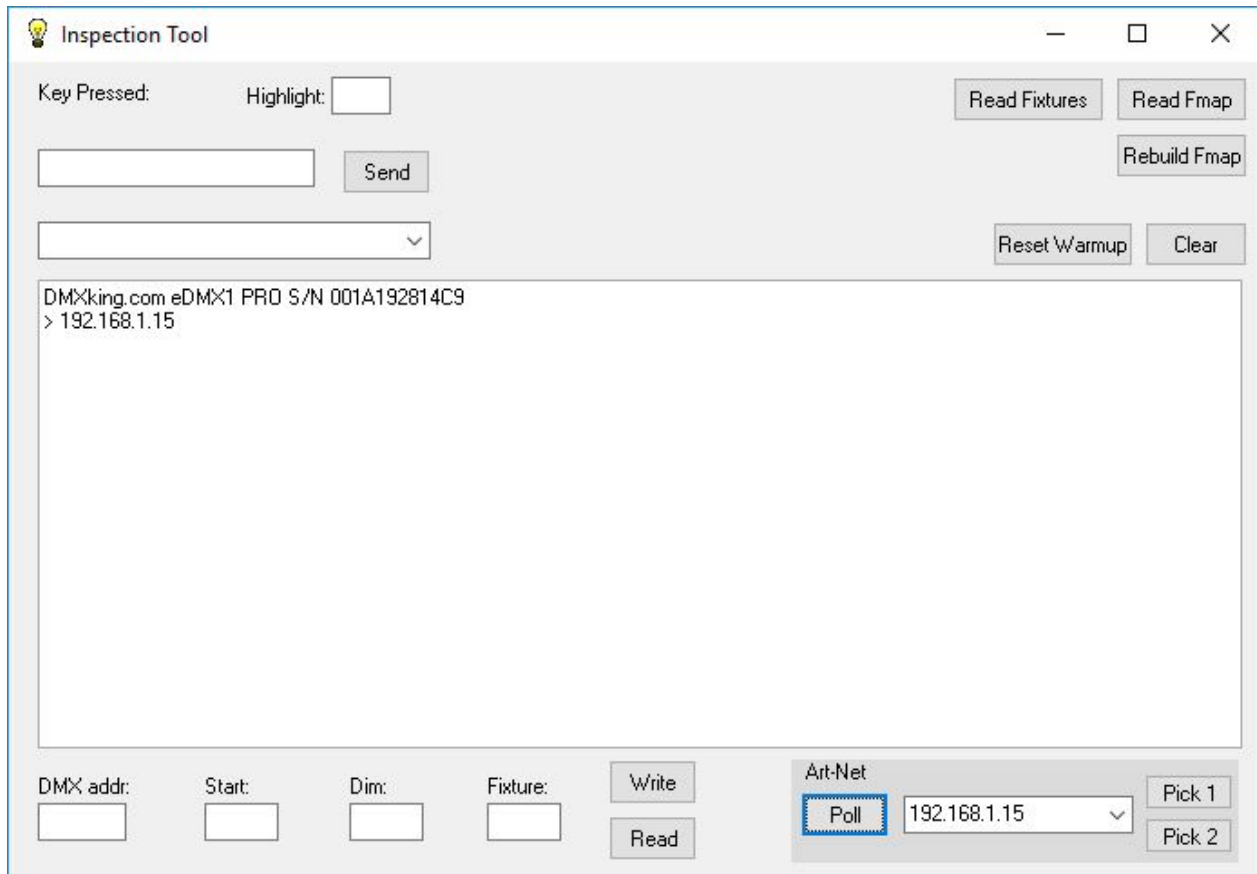
Fmap(3) contains the fixture number installed at that address. So for our example, there is an Aurorae P180 set to address 140.

Should it come about that through installs, removals, rehangs, or whatever these relationships get out of sync and are not accurate, then the fields and buttons in the lower left can be used to rewrite them. If we were to put 140 in the DMX addr. field and click Read, then Start would show 140, Dim would show -1, and Fixture would show 2. Editing any of the fields and clicking Write will change the Fmap accordingly.

To start from a clean Fmap, meaning you will need to enter the current addresses of all installed fixtures with the fixture tool, click 'Rebuild Fmap'.

Art-Net

The setup for Art-Net requires that the IP address of the interface(s) be known to CP Lighting. The Poll button will send out the commands over the network that cause interface devices to respond back with their name and address. That will populate the drop-down box.



Clicking Pick 1 will set the displayed address as the one to use for Universe 1. Clicking Pick 2 does the same for Universe 2. They do not have to be the same device. Back on the Options Menu, clicking either of the Art-Net options will bring up this screen.

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Keyboard Summary

Keyboard Summary



Keyboard Summary

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The keyboard can be used in the following manner:

Esc - clicks the Blackout button, stops a dimmer check

F2 - displays the Keyboard entry window

F3 - toggles the AutoAdvance button

F4 - toggles the Blind/Live button

F5-F12 - the Bump buttons

Pause/Break - clicks the Loop Break button, stops a cue

Home - adds 100 to all active channels

End - Mouse on grid: subtracts 100 from all active channels.

 Mouse on cue list: If a cue is running, completes the fade and cue.

Page Up - adds 10 to all active channels

Page Down - subtracts 10 from all active channels

Up Arrow - adds one to all active channels

Down Arrow - subtracts one from all active channels

g# - (where # is 0 thru v) - selects the channels of that group number

g/ - selects all non-fixture channels with greater than warmup value

b or Backspace - Mouse on cue list: runs the previous cue with timer

Space Bar - runs the next cue with timer, completes running loop

Alt - used with a number in a channel - enters values of a user palette

Ctrl - used with b, Backspace, or Space Bar - runs the cue immediately from screen values

 Toggles the Record cue mode between Save and Add

Delete - Mouse on grid: clears all selected channels.

 Mouse on cuelist: If a cue is running, stops the fade and completes the cue.

Enter - records the current levels or saves the current timings/description

Shift - used with Enter adds a cue with current levels. Used with Space Bar loads and sends the current values of the channel grid.

Help Menu

Help Menu



Help Menu

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The Help menu has options to redirect you to this file, show you your Registration details, and to bring up a window with the version and copyright information.

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Keyboard entry

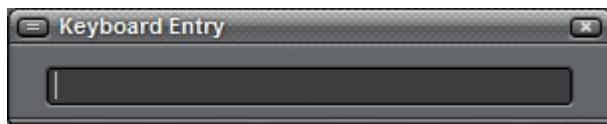
Keyboard entry



Num Pad entry

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Keypad entry of channel levels is enabled by showing the keypad entry window, either by clicking the menu or pressing the F2 key.



This window can be positioned anywhere and it's last position is remembered. The syntax for entry is: "channels*level". A range of channels is written "start/end". For example, "2/10-5+12*80" would set channels 2,3,4,6,7,8,9,10,12 at 80. Pressing the - key on the numpad will give this window focus at any time it's open.

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FAQ

FAQ



How or where can I get an interface to use with your software?

The Enttec Pro can be purchased from [Enttec](#) or several distributors on the web. [DMX King](#) also makes a compatible interface that has proven reliable.

I already have an XYZ2000 (or whatever) hardware interface for DMX. Can I use it with your software?

If the interface says it is "Enttec compatible" then it should work with the program. If not and you send me the make, model and the communication source code for the device, I will make every effort to translate it for Cue Player Lighting.

You say in the feature list that the Velleman interface has limitations. What are they?

Unlike the Enttec interface that gets all the lighting levels in one message, the Velleman VM116 requires that each channel level is transmitted one at a time. This results in delays that makes the dimming steps noticeable. At the present time, using the VM116 is not recommended for use with more than 32 channels with Cue Player Lighting. That may change in the future. As of version 1.9.1, the Velleman interface was removed from the selection menu.

How do I run the program as a non-Administrator? - The program needs to be "Run as Administrator" during the registration process. An easy way to do that is right click the desktop icon and then select Run as Administrator. Once you have your registration key and have registered the program, you may remove or rename the file "cplighting.exe.manifest" in the installed directory.

Can I use an "Open" class interface like the Enttec Open? - Yes, BUT, the Open interface uses the host computer for timing the DMX signals that can lead to issues with entry level computers and a large number of lights. Our experience is that for about the same cost, the DMX King Micro with its internal timing is a better alternative.

I want to use a surface with sliders instead of having a cue file for everything. - You can connect a midi sound controller such as the Pyle PMIDIPD30 via a USB port and control the 8 submasters with the sliders.

How To Buy

How To Buy



How To Buy

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Cue Player Lighting is \$99.95 and you can purchase a license key from [Share-It](#).

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