

CompuDim

Reference Guide



Documentation Version 1.0

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Overview

CompuDim, Compulite's intelligent, high-precision, digital dimming system is designed for DMX512 and/or Ethernet communication.

The racks are designed to allow easy insertion and removal of the dimmer drawers and the control modules without the use of tools. There is convenient access to line, load, and control termination.

The companion Dimmer Monitor software enables PC monitoring on Windows based software for remote control and monitoring.

Features

- DMX and Ethernet communication (VC and ArtNet).
- 3-phase power supply for the control electronics ensures control continuity in the event of a missing supply phase.
- 3 low-noise top mounted fans with computerized speed control
- Quick access to load, voltage and frequency data
- Real-time automatic dimmer error notification display and slot status report
- Patch and parameter setup wizards
- Testing intensity per dimmer
- Emergency panic switch
- 4.3" Touch screen graphic LCD display with 480*272 pixels, showing screens, soft key functions, and rack status
- Virtual keyboard and external keyboard support (USB only)

CompuDim Controls

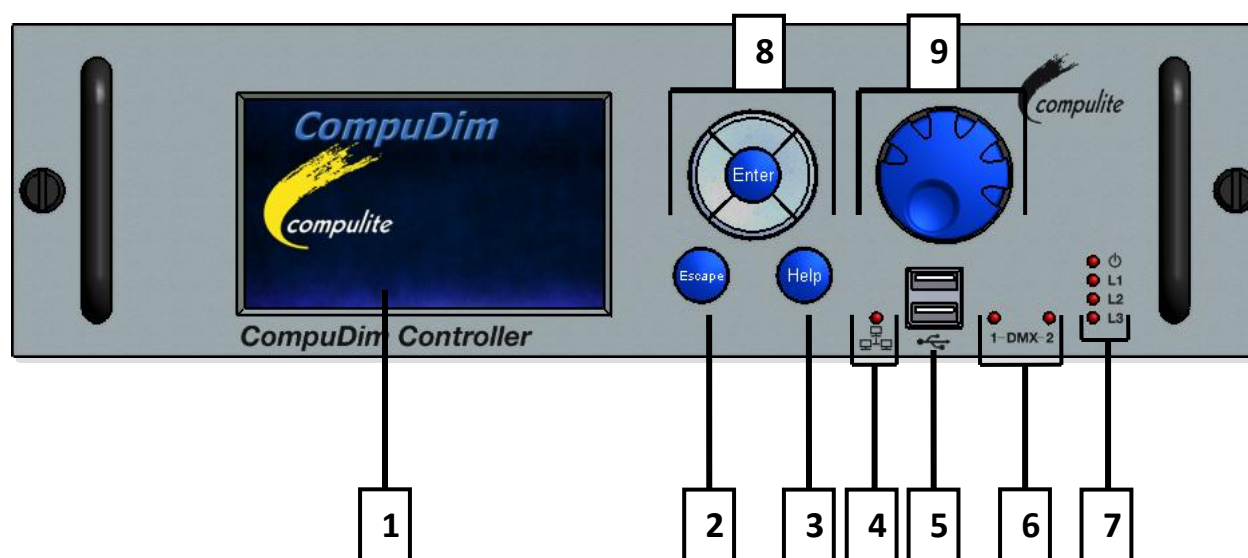
The Dimmer Rack Control module is a fully embedded PC that controls the rack electronics. It communicates with the consoles and controls the microprocessor located in each dimmer drawer. There is also bi-directional communication with PC running Dimmer Monitor software.

A second control module may be installed in the dimmer rack. The second control module functions as a tracking backup slave to the main unit. The slave takes over in the event of a main module failure.




Note the following:

- If there are 2 control modules, the lower module will be the main and the upper module will be the slave.
- Some of the features in the slave module will be disabled.



The CompuDim controls and their purpose:

No.	Part / Purpose
1	Touch screen LCD display
2	Escape button: Press the escape button to exit a screen.
3	Help button: Press the help button to enter or exit help on any screen. See: Using Help

No.	Part / Purpose (Cont.)		
4	<i>Ethernet communication LED:</i> Active Ethernet network - LED is green. Not active - LED is red.		
5	<i>USB Port:</i> The USB port can be used for the following: <ul style="list-style-type: none"> • A text USB keyboard or mouse can be inserted into the USB port. • Save and restore module data from / on a USB stick. See: Backup / Restore • Save log files to a USB stick. See: Backup / Restore • Update system software from a USB stick. See: Software / Hardware Upgrade 		
6	<i>DMX communication LED's:</i>	DMX 1	DMX input from DMX 1 source. Active DMX source – LED is green Not active DMX source – LED is red
		DMX 2	DMX input from DMX 2 source. Active DMX source – LED is green Not active DMX source – LED is red
7	<i>Power LED and 3-phase power LED's; L1,L2,L3:</i>  - Power LED – LED is red when system is ON. When the 3-phase power LED's (L1,L2,L3) are red, it indicates that a 3-phase power source is connected correctly. If the LED's are OFF a 3-phase power source is not active!		
8	<i>Navigation controls with Enter button:</i> The Navigation controls can be used to navigate a screen and enter values.		
9	<i>Wheel:</i> The Wheel can be used to scroll through screen values. The Wheel click (Pressing on the wheel), can be used when performing a dimmer test. See: Testing a Dimmer		

Getting Started

Before turning on the CompuDim, make sure it is connected correctly. Once the system is turned on the operating system will automatically load and the idle screen will be displayed. A Log window will also appear. Any errors will be displayed in the log window. The idle screen will also display the number of Racks and the starting DMX offset address.

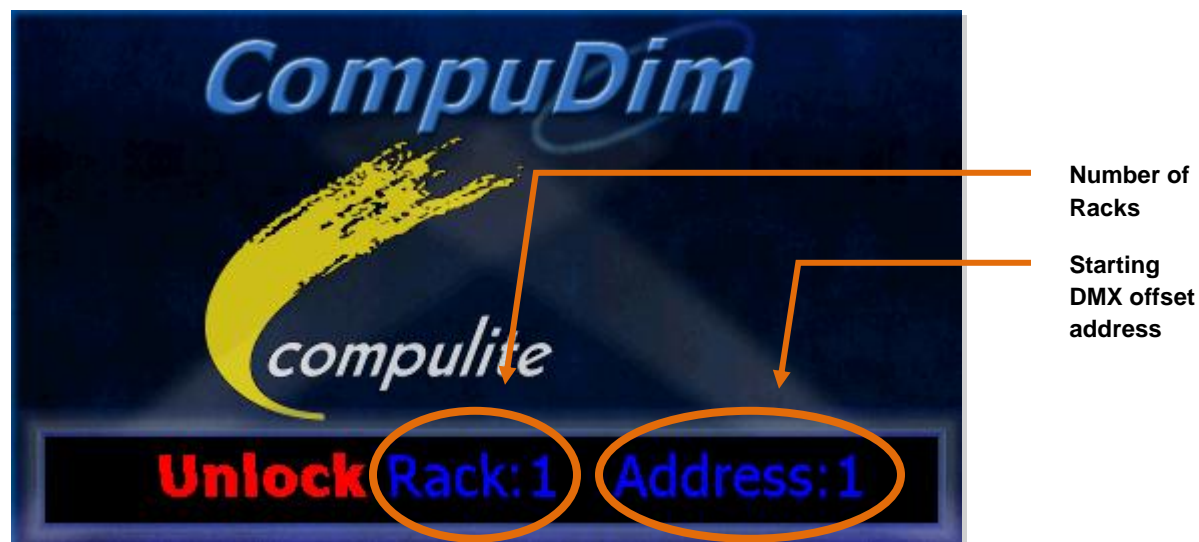


Figure 1: The Idle screen saver



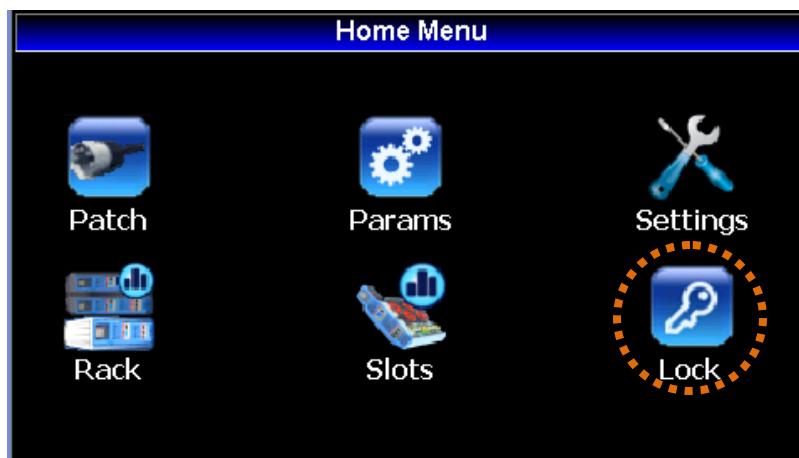
Figure 2: Screen Saver with Log Window

To unlock CompuDim

- Tap *Unlock*.

To lock CompuDim

- From the Home menu tap Lock.



Text Conventions

The following text conventions exist in this manual:

- The actual hardware keys are referred to as KEYS (in CAPS)
- Menu icons are referred to as **icons in BOLD**
- Touch screen keys are referred to as **[Buttons] in BOLD with square brackets**
- Sequences are written with an arrow between the buttons or icons; **[icon] ► [button]**
- Screen labels are referred to as *Labels (in Italic)*



Using Help

Help is available for every screen, icon, button and hardware control on CompuDim. The navigation controls and wheel can also be used to scroll up and down the help text.

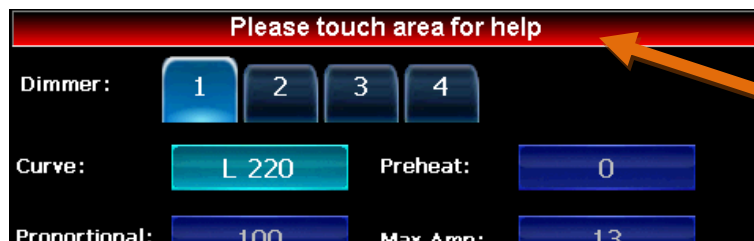
To use help

1. From any screen press the HELP button:



The screen title bar will become red once the help button is pressed.

Example:



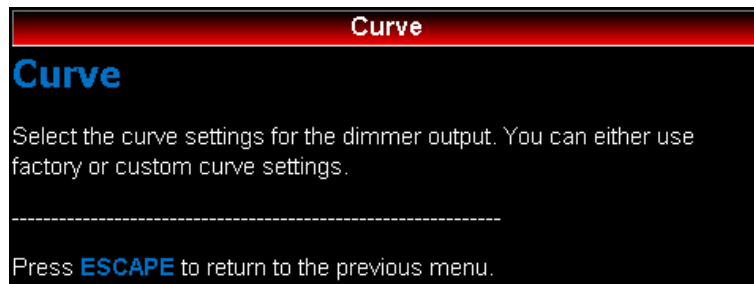
Red title bar indicates help mode.

2. Tap on a **[Button]** to display help.

Example: If you tap on *Curve*: [L 220]



The following help will be displayed:

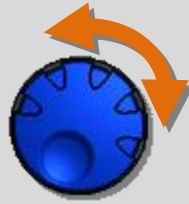


You can use the navigation keys to scroll up and down





Tip! The wheel can also be used to scroll up and down the help text:



3. Press HELP to exit help mode.

-OR-

Press ESCAPE to exit the current help screen, then tap on another button to display help.



Note the following:

- Pressing ESCAPE does not exit help mode. You will remain in help mode until you press the HELP key.
- Help is also available for hardware keys from any screen. Simply press HELP then the hardware key.



Tip! You can also tap on the actual *label* to display help:

Example:



The Home Menu

The Home menu contains all the main options available to configure the CompuDim. The following options are available:

- Patch settings
- Rack status
- Parameter settings
- Slots status
- Settings screen
- Lock system

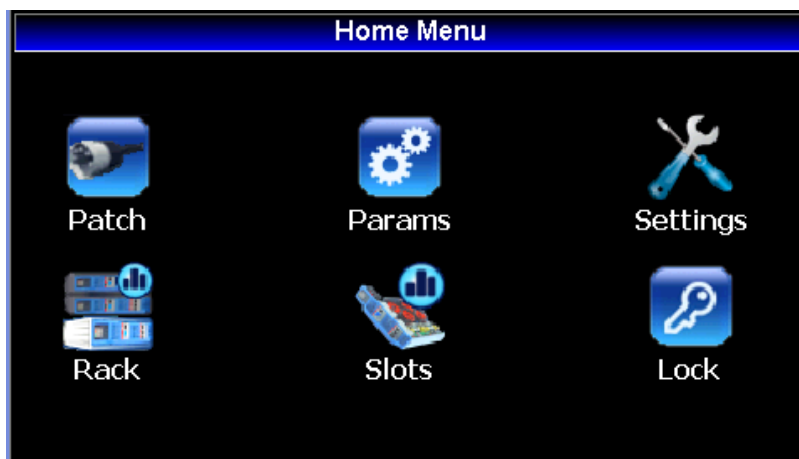


Figure 3: The Home menu screen



Patch Settings



Note: We recommend that you configure Ethernet settings before patching.

See: [Configure Ethernet Settings](#)

The Patch settings are where you set the patch for dimmers. You can set the patch by either using the patch wizard or manually, which is a more advanced method. Ethernet settings can also be set from the patch screen.

The patch screen also contains status LED's for Ethernet and DMX sources:



Green LED indicates a source exists.



Red LED indicates a source does NOT exist or is not defined in the patch.

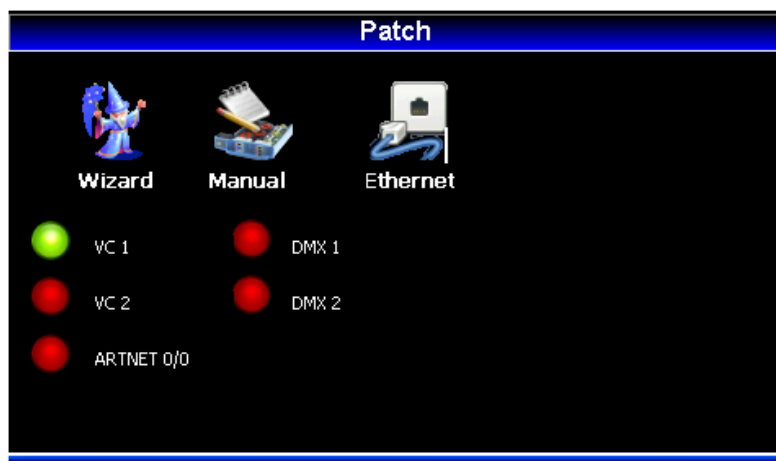


Figure 4: The Patch screen




Note the following:

- CompuDim supports 2 different Ethernet protocols; **VC** and **ArtNet**.
- Each rack has the ability to listen for 3 Ethernet sources at the same time.
Example; VC1, ArtNet (1/1) and ArtNet (2/1).
- Each dimmer can be configured to listen for up to 3 sources at the same time;
Example; VC1, ArtNet and DMX1.



Using the Patch Wizard

The Patch wizard enables you to set patch values for ALL slots or a range of slots in the rack. This is a faster method of patching.





The screenshot shows the 'Patch - Wizard' window. It has a dark background with blue buttons. The fields are as follows:



Patch - Wizard			
From Slot:	1	To Slot:	24
Merge:	HTP	Offset:	1
Source (1)	DMX 1		
Source (2)	DMX 2		Partial
Source (3)	VC 1		Apply

Figure 5: Patch wizard screen

The Patch Wizard Options

The following is a list of options available in the patch wizard and how to use them:

Patch Options	How to use them...
<i>From Slot</i>	<p>This is where you enter the number of the first slot that you want the wizard to start from.</p> <p> Note: The default is 1</p>
<i>To Slot</i>	<p>This is where you enter the last slot number where you want the wizard to end.</p> <p> Note: The default will always be the last slot number in the rack.</p>
<i>Merge</i>	<p>Merge has 2 options:</p> <ul style="list-style-type: none"> • [HTP]: <i>Highest Takes Precedence</i> - When using HTP Merge, the highest value from the 3 defined sources will be sent to the dimmer. • [MERGE]: When using Merge, the first source that exists in the list of sources will be sent to the dimmer. (even if the source value is zero)

Patch Options	How to use them...(Cont.)
<i>Offset</i>	<p>This is where you set the Offset of the DMX that you want to start from; 1-512.</p> <p> Note: The default is 1. Offset addresses are assigned in sequential order for all available dimmers.</p>
<i>Source 1,2,3</i>	<p>This is where you select a source.</p> <p>Each source has the following options:</p> <ul style="list-style-type: none"> • DMX 1 • DMX 2 • 3 Configurable Ethernet sources: <p> Note: These should first be configured in the Ethernet configuration screen. See: Configure Ethernet Settings</p>
[Partial]	<p>Partial is used when you want to apply only some parameters to a patch.</p> <p>Example; If you want to modify ONLY the Merge type, then by tapping on [Partial] will grey out all the fields, except the <i>From Slot</i> and <i>To Slot</i>. By tapping on the [Merge] button will enable you to set the merge type only.</p>
[Apply]	<p>Tapping on [Apply] will apply the data to the range of selected slots.</p>

To patch using the patch wizard

1. From the Home menu, tap on **Patch**.
2. From the Patch screen tap on **Wizard**.
The Patch wizard screen will open.
3. Enter the desired values. See: [The Patch Wizard Options](#)
4. Tap **[Apply]** to run the wizard.
5. Tap **[OK]** to return to the patch screen.



TIP! Press ESCAPE to return to the previous menu.



Using Manual Patch

The Manual patch enables you to manually modify the settings for each drawer and dimmer that are related to a patch.

Before manually patching, you will be presented with a screen showing the available slots in the rack. This is where you will be able to select the slot that you want to patch manually.



Figure 6: Available slots

The Manual Dimmer Patch Screen


The Dimmer patch screen appears after you select a slot that you want to manually patch. From the Dimmer patch screen you can select the dimmer that you want to manually modify:



Figure 7: Dimmer Patch Screen

The Dimmer Patch Screen Options

The following is a list of options available in the dimmer patch screen and how to use them:

Patch Options	How to use them...
<i>Dimmer</i>	This is where you select the dimmer to modify. (1-4)
<i>Source 1,2,3</i>	<p>This is where you select a source.</p> <p>Each source has the following options:</p> <ul style="list-style-type: none"> • DMX 1 • DMX 2 • 3 Configurable Ethernet sources: <p> Note: These should first be configured in the Ethernet configuration screen. See: Configure Ethernet Settings</p>
<i>Offset</i>	This is where you set the Offset of the DMX port for the dimmer.
<i>Merge</i>	<p>Merge has 2 options:</p> <ul style="list-style-type: none"> • [HTP]: When using HTP Merge, the highest value from the 3 sources will be sent to the dimmer. • [MERGE]: When using Merge, the first source that exists in the list of sources will be sent to the dimmer. (even if the source value is zero)
[Next]	Tapping on [Next] will take you to the next slot.
[Apply]	Apply will only appear once you have modified an option. Tap on [Apply] to accept the changes. [Apply] will then change to [Next] .



TIP! You can jump to a different slot at any time by pressing ESCAPE and then selecting a new slot.

To patch manually

1. From the Home menu tap on **Patch**.
2. From the Patch menu tap on **Manual**.

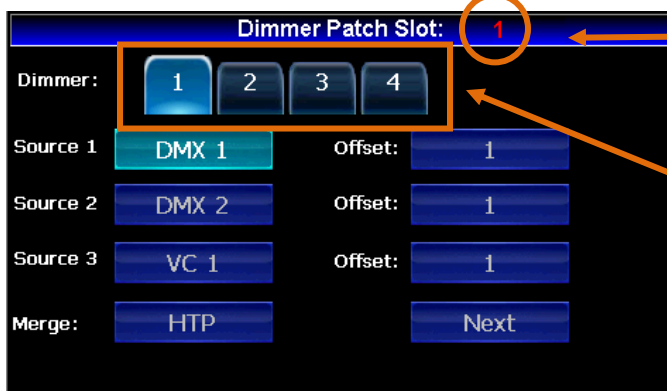
The Select Slot screen will appear:



3. Select a slot number to manually modify.

The Dimmer Patch screen will appear with the chosen slot number next to the title.

4. Tap on the dimmer number to modify:



NOTE: This is the slot number.

Dimmer numbers

5. Select / enter the desired *Source*, *Offset* and *Merge* type. See [The Dimmer Patch Screen Options](#)
6. Tap **[Apply]** to apply the modifications.



Note: The **[NEXT]** button will change to **[Apply]** only after a change has been made.

7. Press **ESCAPE** to return to the previous menu

-OR-

Tap **[Next]** to modify the next dimmer slot.



Configure Ethernet Settings

The Ethernet settings screen is where you define the network sources that the rack will listen for. The current Ethernet sources will be displayed.

You are able to modify the source type, subnet and port. CompuDim supports VC (Virtual Connector) and ArtNet. Up to 3 sources can be selected for the rack.



Note: When using ArtNet, the port and subnet will be displayed. When using VC, only the port will be displayed.

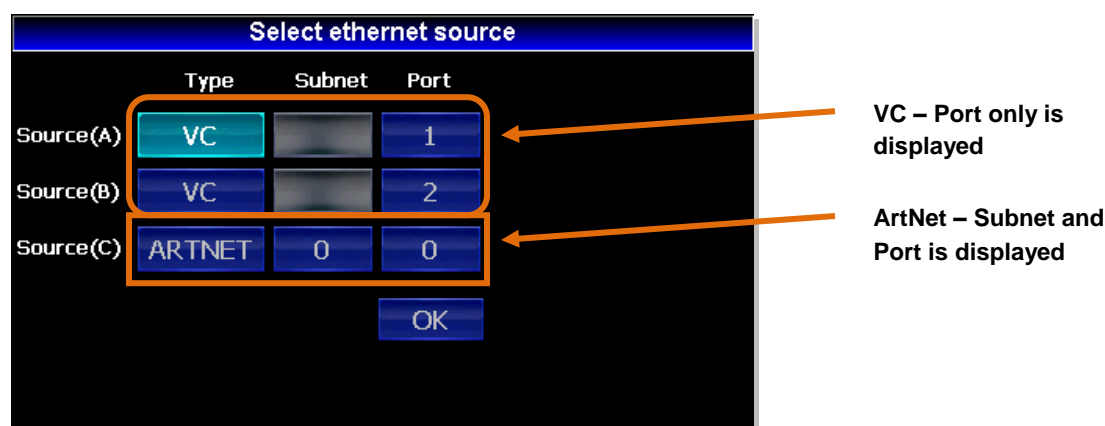


Figure 8: Ethernet sources

Accessing Ethernet Settings

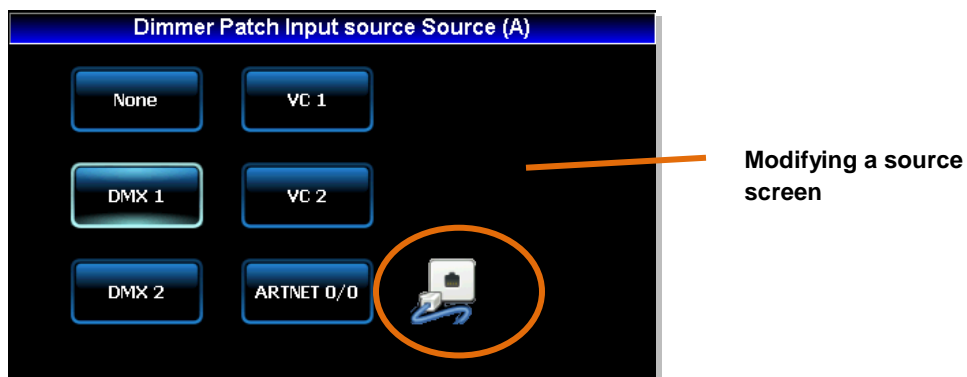
The Ethernet settings can be accessed from the following screens:

- Patch Screen – [Home Menu ► Patch ► Ethernet]



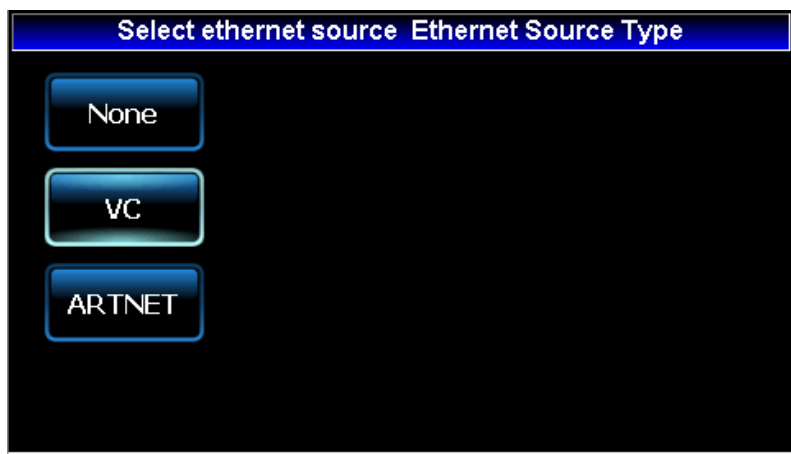
-OR-

- By modifying a Source – [Home Menu ► Patch ► Wizard -OR- Manual ► Source]



To Configure Ethernet settings

1. Tap on **[Ethernet]**.
See: [Accessing Ethernet Settings](#)
2. Tap on a Source to modify; *Source A,B or C*
3. Select a Source type; **[None]**, **[VC]** or **[ArtNet]**:



4. Editing *Port* and *Subnet*:

When selecting VC: <ul style="list-style-type: none"> • Only Port can be edited. 	<ol style="list-style-type: none"> 1. Tap on a <i>Port</i> button. 2. Enter a port number from 1-255. 3. Tap [OK].
When selecting ArtNet: <ul style="list-style-type: none"> • Subnet and Port can be edited. 	<ol style="list-style-type: none"> 1. Tap on a <i>Subnet</i> button. 2. Enter a subnet number from 0-15. 3. Tap on [<->] to move to the next block. 4. Enter a universal port number from 0-15. 5. Tap [OK]. <p>Note: You can edit the port or subnet separately by either tapping on port or subnet.</p>

5. Tap **[Apply]**, to apply the modifications.
6. Tap **[OK]**.



TIP! Press ESCAPE to return to the previous menu.



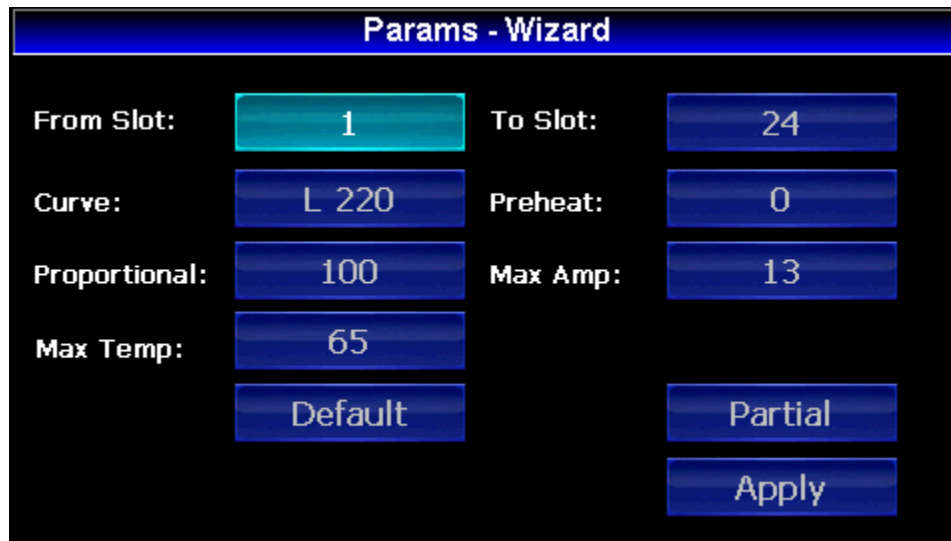
Parameter Settings

The Params settings enable you to select and set specific parameters for each dimmer. This can be done by either using the Param wizard or manually.



Using the Params Wizard

The Params wizard can be used to set values for ALL dimmers or a range of slots in the rack:












Params - Wizard	
From Slot:	1
To Slot:	24
Curve:	L 220
Preheat:	0
Proportional:	100
Max Amp:	13
Max Temp:	65
	Default
	Partial
	Apply

Figure 9: Params Wizard Screen

The Params Wizard Options

The following is a list of options available in the Params wizard and how to use them:

Params Options	How to use them...
<i>From Slot</i>	<p>This is where you enter the number of the first slot that you want the wizard to start from.</p> <p> Note: The default is 1</p>
<i>To Slot</i>	<p>This is where you enter the last slot number where you want the wizard to end.</p> <p> Note: The default will always be the last slot number in the rack.</p>

Params Options	How to use them...(Cont.)
<i>Curve</i>	<p>Tap on the <i>Curve</i> button.</p> <p>The Select a Curve screen will appear.</p> <ul style="list-style-type: none"> Select either [Factory] or [Custom] curve. See Curve Settings Tap on the tick  to apply a curve. <p> Note: Default is [L220]</p>
<i>Preheat</i>	<p>Preheat keeps the dimmers at a minimal level.</p> <p>When entering a preheat value, it must be in percentage.</p> <p> Note: Default is 0</p>
<i>Proportional</i>	<p>Proportional level acts as a sub-master over the incoming dimmer control level. For example; If the proportional level is set at 50%, the dimmer level will always be at half of the fader setting on the control panel.</p> <p>The Prop value must be entered in percentage between 0 and 120.</p> <p> Note: Default is 100</p>
<i>Max Amp</i>	<p>This is the Max Amperage load that the dimmer supports. When the dimmer load reaches the max value it will automatically decrease the intensity level by 50%. This security feature ensures that the set Max Amperage is not exceeded.</p> <p> Note: Default is 13</p>
<i>Max Temp</i>	<p>Shutdown is for protection purposes. The dimmer will shut down when the max temp has been reached.</p> <p> Note: The default is 65C°</p> <p>When Entering a new shutdown value it MUST be in C°.</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;">  Warning! We recommend a temp of 65C°. </div>
[Default]	<p>Pressing [Default] will load all the default values.</p>

Params Options	How to use them...(Cont.)
[Partial]	Partial is used when you want to apply only some parameters to a patch. Example; If you want to modify ONLY the Curve type, then by tapping on [Partial] will grey out all the fields, except the <i>From Slot</i> and <i>To Slot</i> . By tapping on the Curve button will enable you to only modify the curve data.
[Apply]	Tapping on [Apply] will apply the data to the range of selected slots.

To set Params using the Params wizard

1. From the Home menu tap on **Params**.
2. From the Params menu tap on **Wizard**.
The Params Wizard screen will open.
3. Enter the desired values. See: [The Params Wizard Options](#)
4. Tap **[Apply]** to apply the values.
5. Tap **[OK]** to return to the Params menu screen.



TIP! Press ESCAPE to return to the previous menu.



Modifying Params Manually

Manual Params enables you to manually modify the Param settings for each dimmer.

Before manually modifying Params, you will be presented with a screen showing the available slots in the rack. This is where you will be able to select the slot that you want to manually modify.



Figure 10: Manually Modifying Params - Select a Slot

The Dimmer Params Screen

The Dimmer Params screen appears after you select a slot that you want to manually modify. From the Dimmer Params screen you can select the dimmer that you want to manually modify:

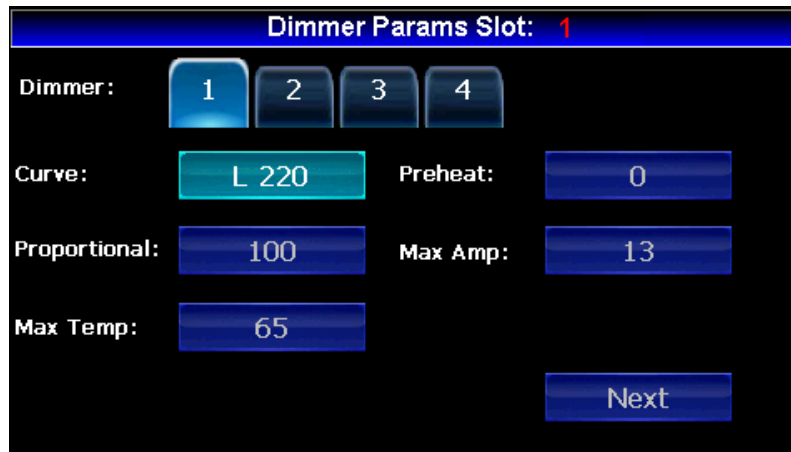









Figure 11: Dimmer Params Screen

The Dimmer Params Screen Options

The following is a list of options available in the Dimmer Params screen and how to use them:

Param Options	How to use them...
<i>Dimmer</i>	This is where you select the dimmer to modify. (1-4)
<i>Curve</i>	<p>Tap on the <i>Curve</i> button.</p> <p>The Select a Curve screen will appear.</p> <ul style="list-style-type: none"> Select either Factory or Custom curve. See Curve Settings Tap on the tick  to apply a curve. <p> Note: Default is [L220]</p>
<i>Preheat</i>	<p>Preheat keeps the dimmers at a minimal level even when the dimmer output level is set to zero.</p> <p>When entering a preheat value, it must be in percentage.</p> <p> Note: Default is 0</p>
<i>Proportional</i>	<p>Proportional level acts as a master over the incoming dimmer control level.</p> <p>For example; If the proportional level is set at 50%, the dimmer level will always be at half of the fader setting on the control panel.</p> <p>The Proportional value must be entered in percentage between 0 and 120.</p> <p> Note: Default is 100</p>
<i>Max Amp</i>	<p>This is the Max Amperage load that the dimmer supports. When the dimmer load reaches this max value it will automatically decrease the intensity level.</p> <p>This security feature ensures that the set Max Amperage is not exceeded.</p> <p> Note: Default is 13</p>

Param Options	How to use them...(Cont.)
Max Temp	<p>Shutdown is for protection purposes. The dimmer will shut down when the max temp has been reached.</p> <p> Note: The default is 65C°</p> <p>When entering a new shutdown value it MUST be in C°.</p> <p> Warning! We recommend a temp of 65C°.</p>
[Next]	Tapping on [Next] will take you to the next dimmer slot.
[Apply]	Apply will only appear once you have modified an option. Tap on [Apply] to accept the changes. [Apply] will then change to [Next].

To manually set parameters

1. From the Home menu tap on **Params**.
2. From the Params menu tap on **Manual**.

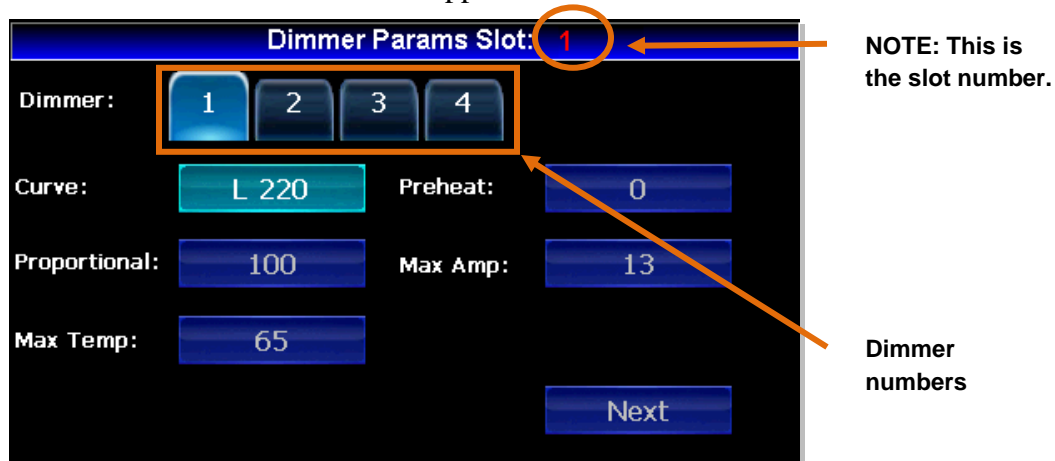
The Select Slot screen will appear:



3. Select a slot number to manually modify.

-Cont. Next page...

The Dimmer Params screen will appear with the chosen slot number next to the title:



4. Tap on the dimmer number to modify.
5. Enter the desired settings for; *Curve*, *Preheat*, *Proportional*, *Max Amp* and *Max Temp*. See [The Dimmer Params Screen Options](#)
6. Tap **[Apply]** to apply the modifications.



Note: The **[NEXT]** button will change to **[Apply]** only after a change has been made.

7. Press ESCAPE to select a different slot.

-OR-

Tap **[Next]** to modify the next slot.



Rack Status

The Rack Status screen which is accessed from the *Home menu* ► **Rack** contains a real-time update of valuable information.

The following information can be viewed:

- Voltage of input per phase
- Current of each phase
- Frequency of the cabinet
- Patch information
- Active slots
- Control module

Rack Status				
1	Rack 1	Line 1	Line 2	Line 3
2	Voltage(Volt)	215	216	216
3	Current(Amp)	0.0	0.0	0.0
4	Frequency(HZ)	49.9		
5	Patch	1-96		
6	Active Slots	24		
7	Control Module	Stand Alone/Bottom Drawer		

Figure 12: Rack Status Screen

Rack Status Information

The following is an explanation of the data displayed in the Rack Status screen:

1	<i>Rack</i> - Rack Number
2	<i>Voltage</i> - Voltage of each input per phase (Volts)
3	<i>Current</i> - The load in each phase (Amps)
4	<i>Frequency</i> - The frequency of the cabinet (Hz)
5	<i>Patch</i> - The DMX start and end address of the cabinet
6	<i>Active Slots</i> – The amount of slots active in the cabinet
7	<i>Control Module</i> – This shows the control module status and position. Example: <i>Stand Alone/Bottom Drawer</i> – The Control Module is a stand-alone unit positioned at the bottom.



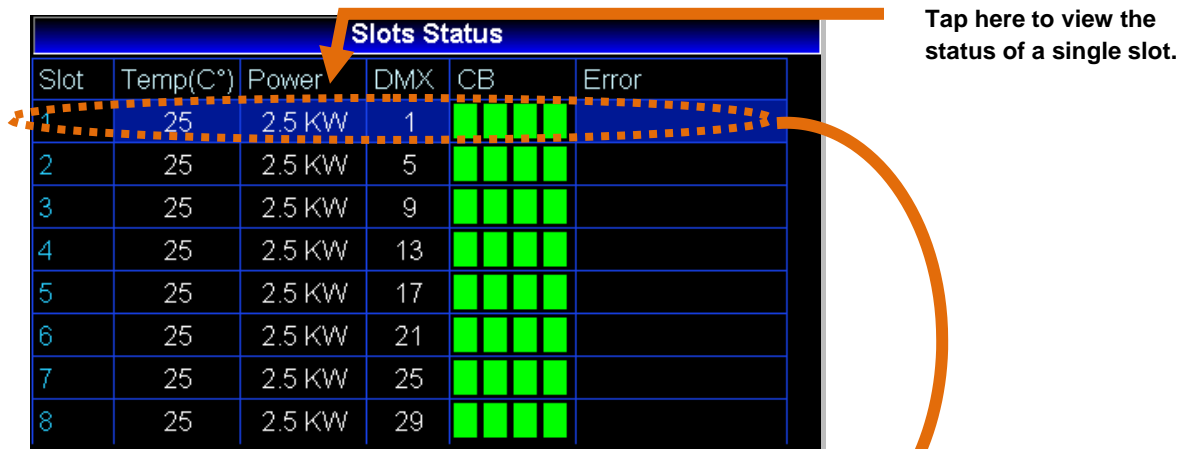
Slots Status

The Slots Status screen displays all slot status data; *Home Menu* ► **Slots**. Additional information on a specific slot can also be viewed individually.

Basic dimmer testing can be done from the Single Slot Status screen. *Figure 14: Single Slot Status Screen* See: [Testing a Dimmer](#)

The following data is displayed on the Slots Status screen:

- Slot number
- Temperature of the drawer
- Slot power (KW)
- DMX information
- Circuit Breaker information (CB)
- Error reports











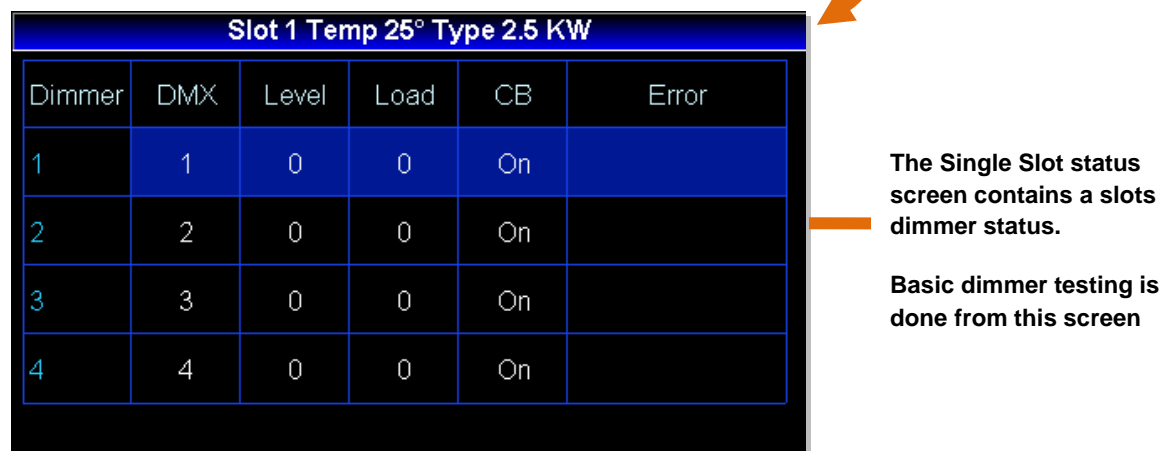
Slots Status					
Slot	Temp(C°)	Power	DMX	CB	Error
1	25	2.5 KW	1		
2	25	2.5 KW	5		
3	25	2.5 KW	9		
4	25	2.5 KW	13		
5	25	2.5 KW	17		
6	25	2.5 KW	21		
7	25	2.5 KW	25		
8	25	2.5 KW	29		

Figure 13: Slots Status Screen











Slot 1 Temp 25° Type 2.5 KW					
Dimmer	DMX	Level	Load	CB	Error
1	1	0	0	On	
2	2	0	0	On	
3	3	0	0	On	
4	4	0	0	On	

Figure 14: Single Slot Status Screen

Slots Status Information

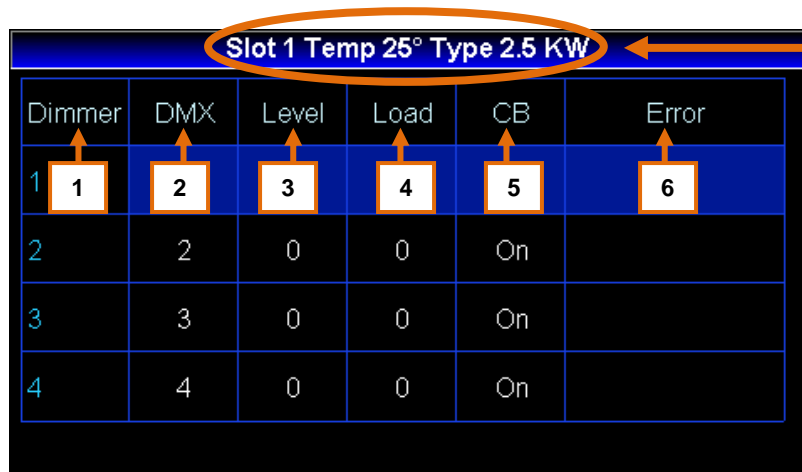
The following is an explanation of the data displayed in the Slots Status screen:

1	2	3	4	5	6
Slot	Temp(C°)	Power	DMX	CB	Error
1	25	2.5 KW	1		
2	25	2.5 KW	5		
3	25	2.5 KW	9		
4	25	2.5 KW	13		
5	25	2.5 KW	17		
6	25	2.5 KW	21		
7	25	2.5 KW	25		
8	25	2.5 KW	29		

1	<i>Slot</i> – Slot Number
2	<i>Temp</i> – The temperature of the drawer in C°
3	<i>Power</i> – The power type of the drawer in KW
4	<i>DMX</i> – The start DMX address of the drawer
5	<i>CB</i> – Circuit Breaker – Green indicates CB is ON
6	<i>Error</i> – Error reports of the drawer. The last detected error for the slot will be displayed in red.

Single Slot Screen Information

Tap on a slot to display the slots additional information. The following is an explanation of the data displayed in the single slot screen:



Slot 1 Temp 25° Type 2.5 KW					
Dimmer	DMX	Level	Load	CB	Error
1	2	3	4	5	6
2	2	0	0	On	
3	3	0	0	On	
4	4	0	0	On	

The title bar displays the slot number, temperature and power type

1	<i>Dimmer</i> – The dimmer number in the slot
2	<i>DMX</i> – The DMX offset of the dimmer (1-512)
3	<i>Level</i> – The intensity level for the dimmer (1-255)
4	<i>Load</i> - The current (ampere's) load on the dimmer
5	<i>CB</i> – Circuit Breaker information; ON indicates CB is on
6	<i>Error</i> – Error reports of the dimmer. If an error is detected the cell will be red.



TIP! Use the navigation keys for the following:

- Move up or down to the next or previous dimmer
- Move left or right to the next or previous slot



Testing a Dimmer

Basic dimmer testing, such as overriding input sources and setting intensity levels manually, is done from the Single Slot Status screen; *Home Menu ► Slots ► [tap on a Slot]*



Note the following:









- During test mode all input sources of the dimmers will be ignored.
- Exiting a screen while in test mode will end the test.

To test a dimmer

1. From the Home menu tap **Slots**.

The Slots Status screen will appear:

2. Using the navigation controls, scroll up or down to the slot you want to test.

Slots Status					
Slot	Temp(C°)	Power	DMX	CB	Error
1	25	2.5 KW	1		
2	25	2.5 KW	5		
3	25	2.5 KW	9		
4	25	2.5 KW	13		
5	25	2.5 KW	17		
6	25	2.5 KW	21		
7	25	2.5 KW	25		
8	25	2.5 KW	29		



3. Press Enter *or* tap on the slot you want to test.

The single slot status screen will appear for the selected slot:

Slot 1 Temp 25° Type 2.5 KW					
Dimmer	DMX	Level	Load	CB	Error
1	1	0	0	On	
2	2	0	0	On	
3	3	0	0	On	
4	4	0	0	On	



-Cont. Next page...

4. Using the navigation controls, scroll up or down to highlight the dimmer you want to test.
5. Press Enter to activate test mode.

When the dimmer is in test mode, the background color of the *Level/* cell will be cleared and the text color will be yellow:

Slot 1 Temp 25° Type 2.5 KW					
Dimmer	DMX	Level	Load	CB	Error
1	1	0	0	On	
2	2	0	0	On	
3	3	0	0	On	
4	4	0	0	On	



6. Using the wheel, increase or decrease the level value.
The *Load* will increase or decrease with the *Level/* if a lamp is connected.

Example:

Slot 1 Temp 25° Type 2.5 KW					
Dimmer	DMX	Level	Load	CB	Error
1	1	50	2	On	
2	2	0	0	On	

7. Press Enter to exit test mode.

The *Level/* and *Load* values will return to normal, with the shaded cell background and white text. This indicates that the dimmer is out of test mode:

Slot 1 Temp 25° Type 2.5 KW					
Dimmer	DMX	Level	Load	CB	Error
1	1	0	0	On	
2	2	0	0	On	
3	3	0	0	On	
4	4	0	0	On	



TIP! Pressing and turning the wheel at the same time will perform a temporary dimmer test. When the wheel is released the test will stop.



Settings Menu

The Settings menu is where you configure general settings.

The following settings are available:

- Network Settings
- Curve Settings
- Administration Settings
- Software Upgrades
- LCD Settings
- Fan Settings
- Factor Reset Settings
- Backup / Restore

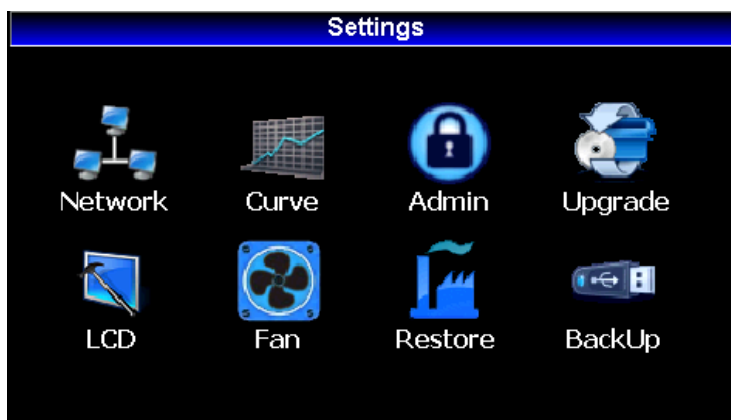


Figure 15: Settings Menu



Network Settings

Network Settings is where you configure a network:

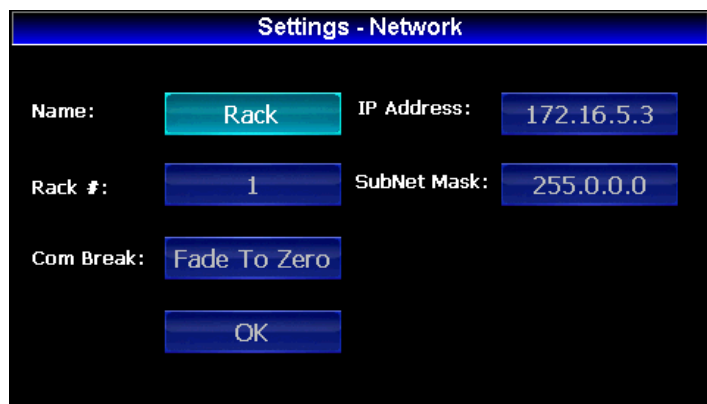



Figure 16: Network Settings Screen

Using Network Settings

The following are the available network setting options and how to use them:

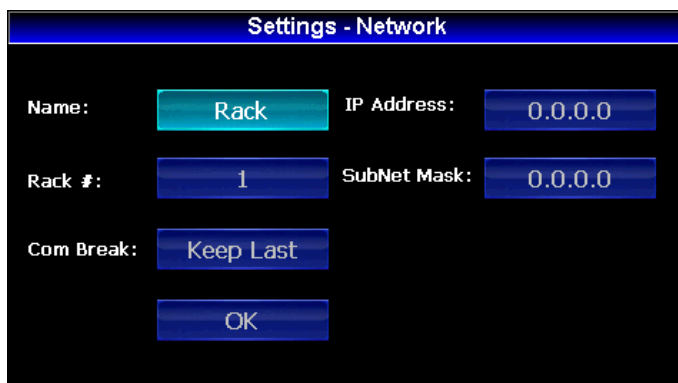
Settings Options	How to use them...
<i>Name</i>	This is where you name the rack. This enables the rack to be identified in the DimmerMonitor. Make sure you give the rack a logical text name.
<i>IP Address</i>	When entering an IP address, make sure it is unique and that the prefix is identical to those of the other devices on the network.
<i>Rack #</i>	This is where you assign a number to the rack. The rack number is like an ID number and should be unique.
<i>SubNet Mask</i>	Set the SubNet mask for the rack.
<i>Com Break</i>	Com Break – Communication Break tells the system what to do if the rack has lost all sources (Ethernet or DMX). Com Break has two options: <ul style="list-style-type: none"> • [Keep Last] (Default setting) This will keep the last received dimmer values until a new source exists. • [Fade To Zero] This will fade the dimmers to zero, until a new source exists.

Settings Options	How to use them...(Cont.)
[OK] [Apply]	 Note: [OK] will change to [Apply] only after a modification has been done. Tap on [Apply] to Apply the modifications. Tap on [OK] to return to the Settings Menu.

To set a network

1. From the Home menu tap on **Settings**.
2. From the Settings menu tap on **Network**.

The Network settings screen will appear:



Settings - Network

Name: Rack IP Address: 0.0.0.0

Rack #: 1 SubNet Mask: 0.0.0.0

Com Break: Keep Last

OK

3. Enter the desired settings. See [Using Network Settings](#)
4. Tap **[Apply]** to apply modifications.



Note: The **[OK]** button will change to **[Apply]** only after a change has been made.

5. Tap **[OK]** to return to the Settings menu.



Curve Settings

Curve settings are used to configure curves. You are able to choose from 9 factory curves or you can program up to 8 user-defined curves. By default the factory curves tab will always be highlighted every time you enter the curve settings page.

Factory Curves

Factory curves can only be viewed and **NOT** modified.

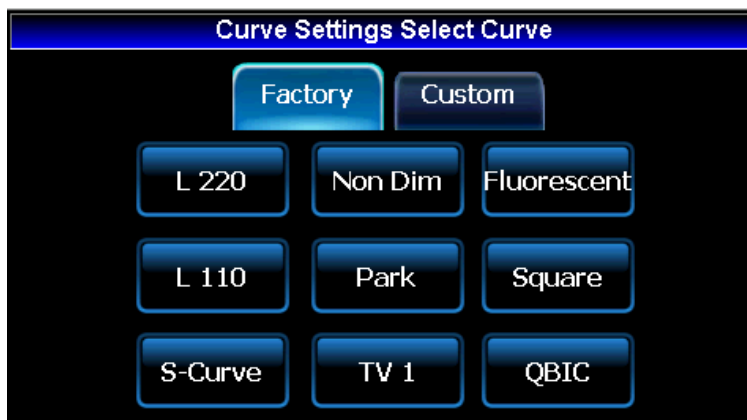
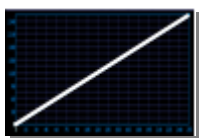
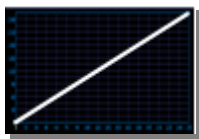
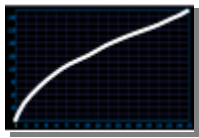
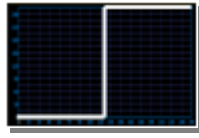
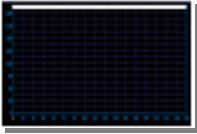
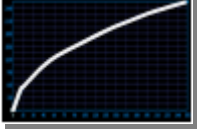
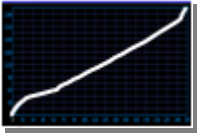
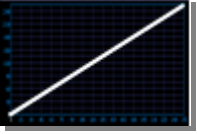
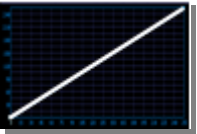


Figure 17: Factory Curves

The following factory curves are available:

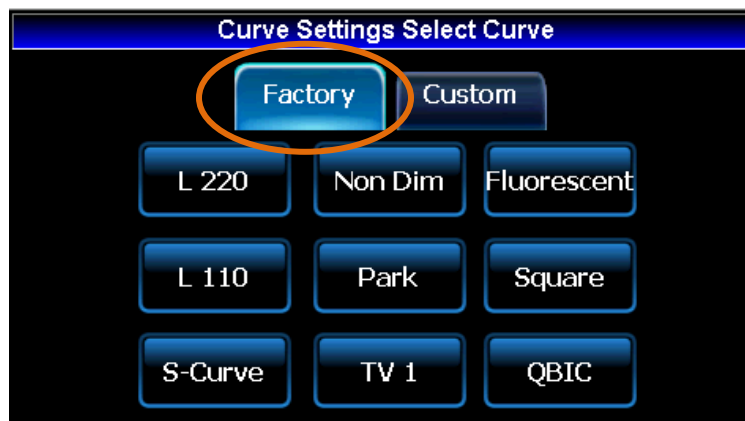
Factory Curve		Curve Description
[L220]		Linear curve for 220v current
[L110]		Linear curve for 110v current
[S-Curve]		Can be used for theatrical dimmers
[Non Dim]		A dimmer set to non-dim jumps to full when the dimmer level reaches 50%. This is useful for motors and strobes.

Factory Curve		Curve Description (Cont.)
[Park]		Park is used for instruments that are always on, such as work lights or smoke machines. Park is always at 100%.
[TV 1]		For use in TV studio's
[Fluorescent]		For fluorescent lamps
[Square]		Square curve
[QBIC]		

To view a factory curve

1. From the Home menu tap on **Settings**.
2. From the Settings menu tap on **Curve**.

The Curve settings screen will open with the Factory tab selected:

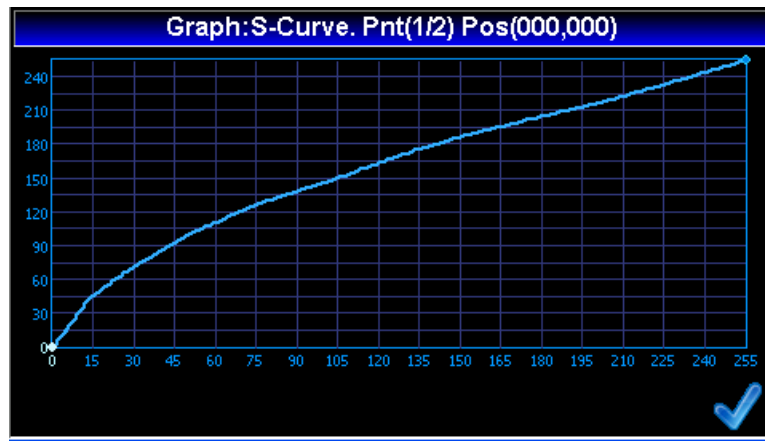


3. Tap on a factory curve to view.

The selected factory curve will open.


For example:

If you tapped on **[S-Curve]**, the following graph will be displayed:



4. Press ESCAPE to return to the Curve settings.

-OR-

Tap on the tick. 

Custom Curves

You can program up to 8 user-defined curves in which each curve can have a unique name.

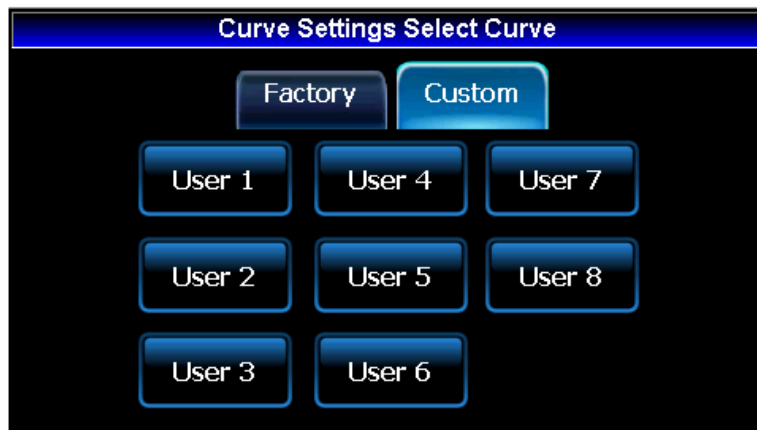


Figure 18: Custom Curves

Custom curves are programmed from the Custom curve settings screen. From this screen you are able to name and edit the curve graph.

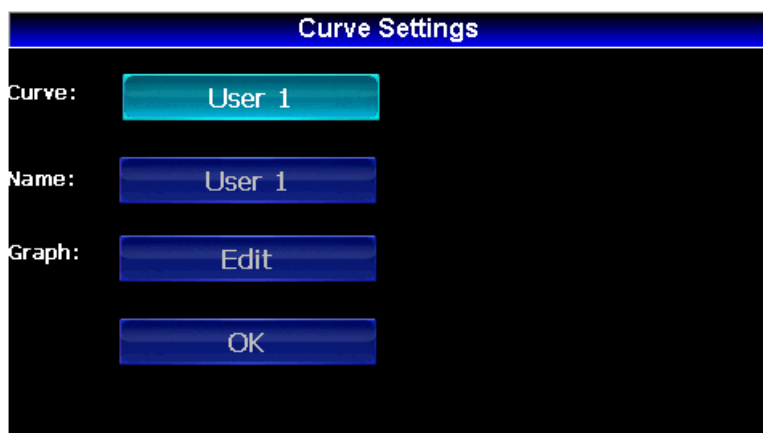


Figure 19: Custom Curve Settings

Custom Curve Settings

The following is an explanation of each option in the custom curve settings screen:

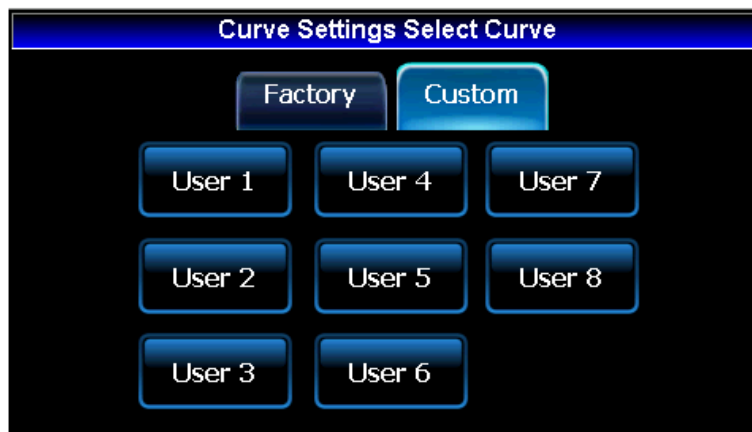
<i>Curve</i>	This is the name of the current curve you are editing; For example ; User 1. You can select a different name by either tapping on the option or by turning the wheel.
<i>Name</i>	This is the name of the curve. Tapping on the option enables you to edit the name. See: Naming a Curve
<i>Graph</i>	Tapping on [Edit] will enable you to add, remove or modify points on the curve graph. See: Editing a Graph

Naming a Curve

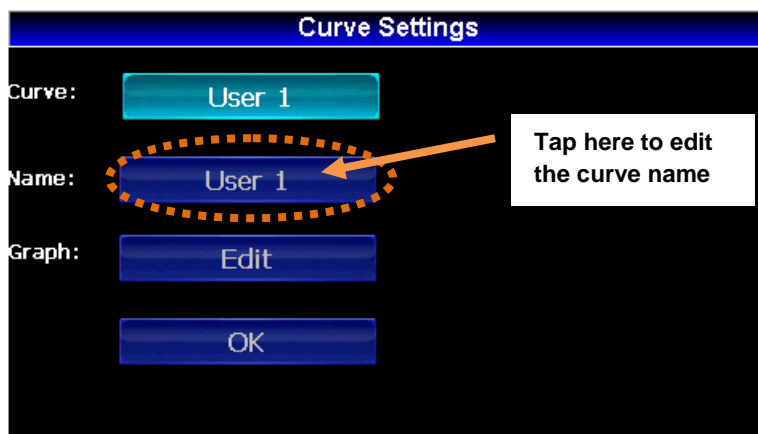
By using the on-screen keyboard, you can name a curve which can be up to 15 characters long. (10 characters are recommended).

To name a curve

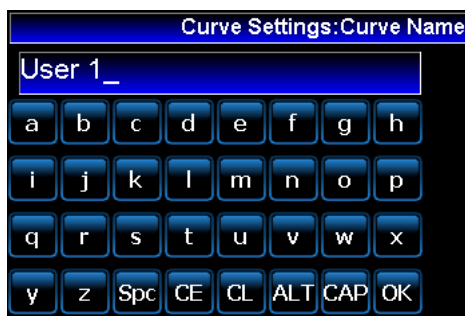
1. From the **[Custom]** curve tab, tap on a user curve to name.



2. Tap on the *Name* button:








The on-screen keyboard will open:




-Cont. Next page...

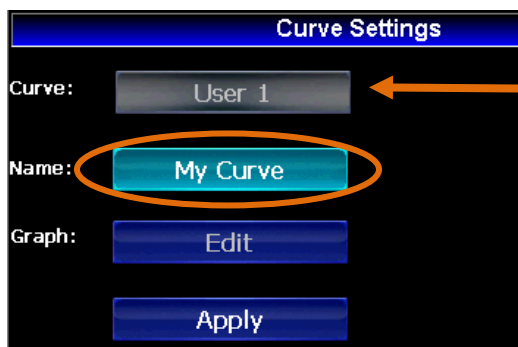
3. Enter the new name of the curve.

The following features are available from the on-screen keyboard:

	Space
	Clear Entry – This will erase the full line.
	Clear – This will erase the last entry only.
	Alternate – This will give you access to numbers and other special characters.
	Caps-Lock – Used for Capital letters.

4. Tap  to return to the custom curve settings screen.

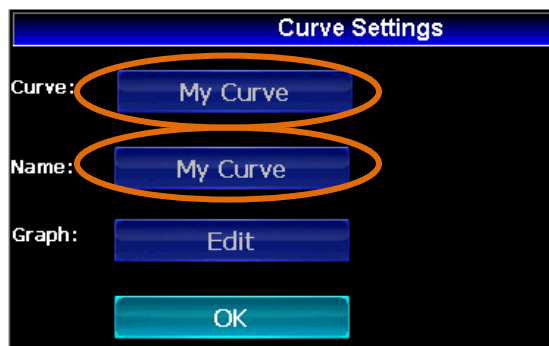
The Curve settings screen will now contain the newly created name:



The *Curve* field will be greyed out until the new name is applied.

5. Tap **[Apply]** to save the curve name:

The Curve name will now be saved:



6. Tap **[OK]** to return to the system settings menu

-OR -

Tap **[Edit]** to modify the curve graph. See: [Editing a Graph](#)

Editing a Graph

The editing a graph feature enables you to design your own curves. You are also able to copy a pre-defined or an already created curve and manipulate it according to your needs. These curves can contain up to 255 curve points. (Min is 2 points).

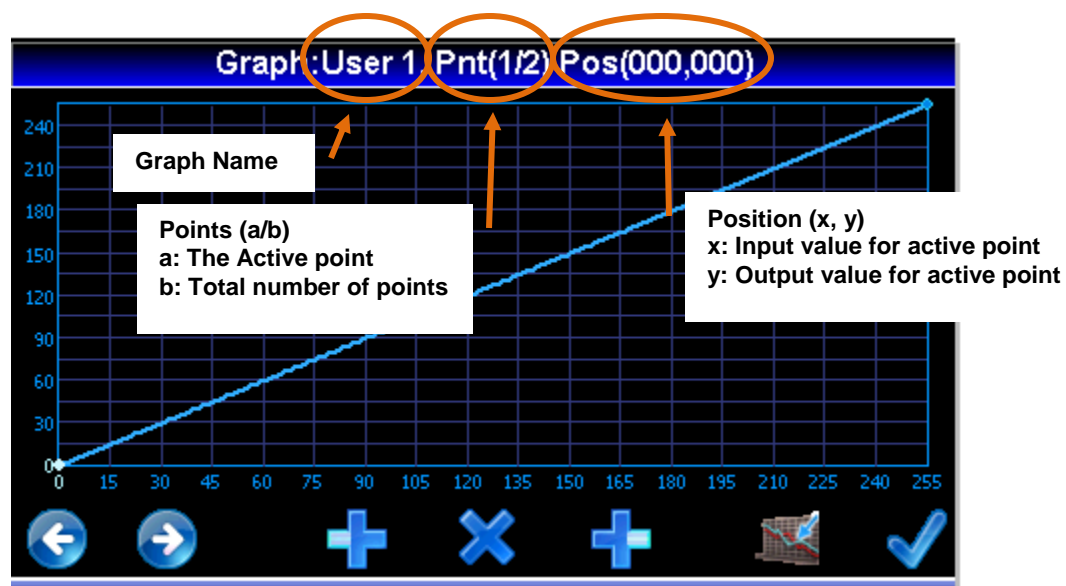


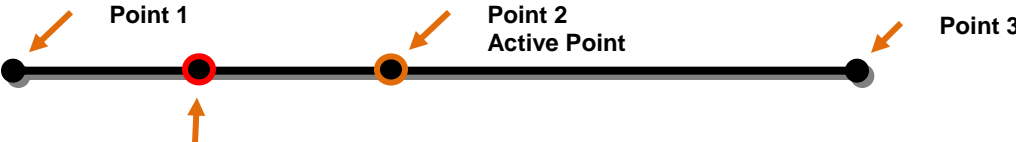


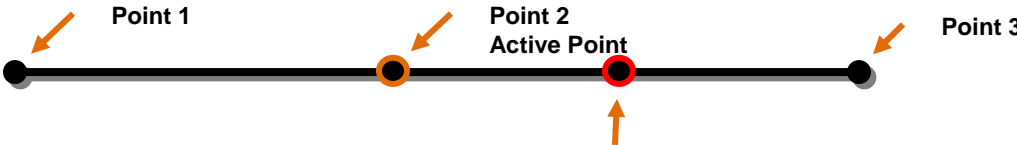





Figure 20: Graph Editing Screen

Graph Editing Controls

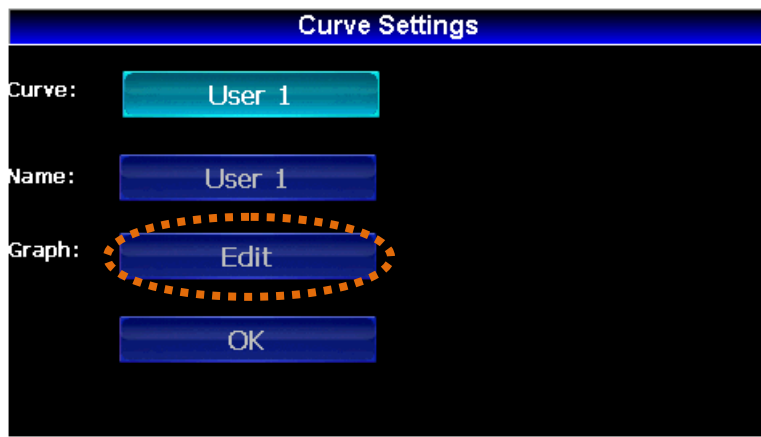
The following is list of the graph editing controls and what they do:

Controls	What it does...
	These controls are used to move to the next or previous point on the graph.
 <div data-bbox="233 1524 391 1640"> <p>Note the light shade</p> </div>	<p>This will add a point to the left of the active point. The point will be added in the middle of the two points:</p> <p>Example:</p>  <p>The new point will be added in the middle of point 1 and point 2. (To the left of point 2 – Active point)</p>

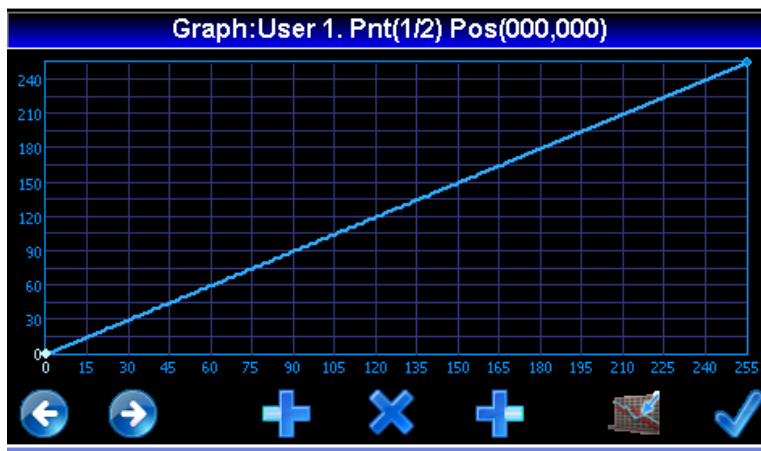
Controls	What it does...(Cont.)
	<p>This will delete an active point only.</p>
 <div data-bbox="272 489 394 659" style="background-color: #cccccc; padding: 5px; margin-top: 10px;"> <p>Note the light shade</p> </div>	<p>This will add a point to the right of the active point. The point will be added in the middle of the two points:</p> <p>Example:</p>  <p>The new point will be added in the middle of point 2 and point 3. (To the right of point 2 – Active point)</p>
	<p>By using this button you are able to load a factory curve or an already saved user curve and manipulate it according to your needs.</p> <p>See: To load a factory or user curve</p>
	<p>This will store the new curve data and exit the screen</p> <p> Note: Pressing ESCAPE will exit the screen without storing the data.</p>

To edit a curve graph

1. From the Curve Settings screen tap on **[Edit]**

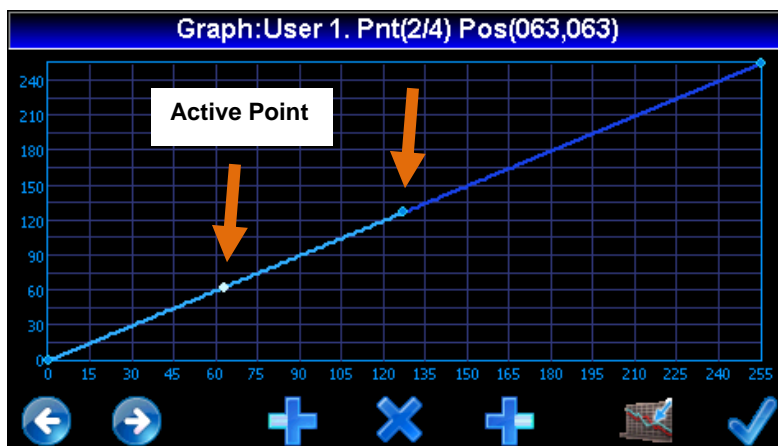


The Graph screen will open:



2. Add points to the graph using  or . See [Graph Editing Controls](#)

Example:

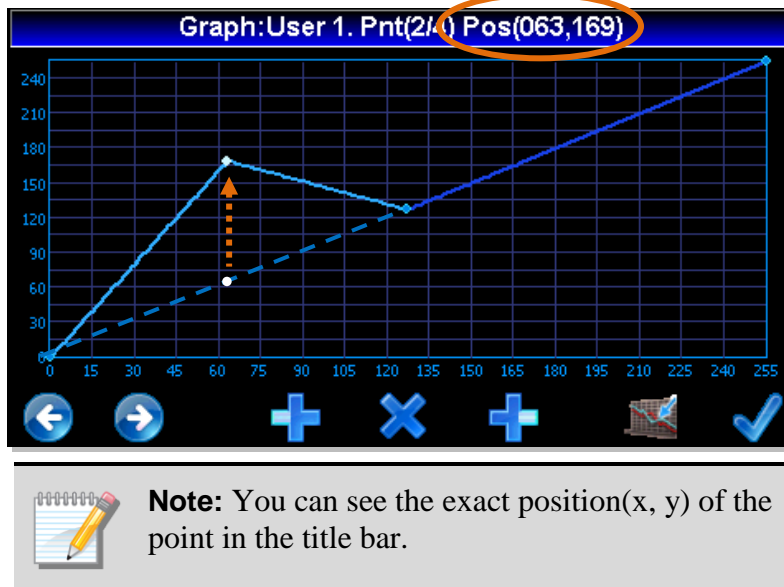


-Cont. Next page...

- Use the navigation keys to move the active point.




Example: Using the UP [↑] navigation key:



TIPS!

- Use single clicks with the navigation keys for a more accurate value.
- Hold down the navigation key for faster move.

- Tap  to save the curve data.

You will return to the Curve Settings screen.

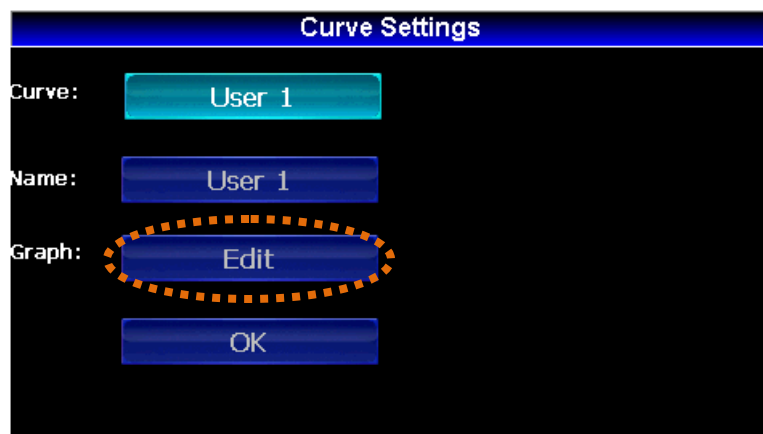
- From the Curve Settings screen, do either of the following:
 - Tap **[Apply]**, and then tap **[OK]** (This will save the new curve under its current name)
 - OR-**
 - Tap on the *Name* button to change the curve name. See [Naming a Curve](#)

To load a factory or user curve

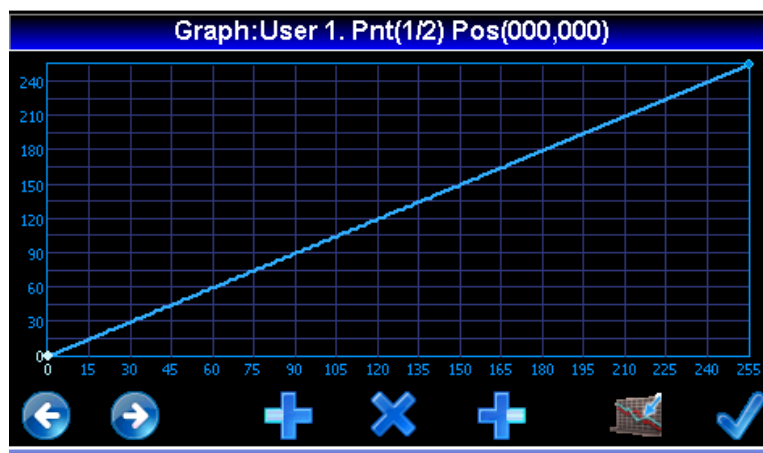
A factory curve or an already saved user curve can be loaded and manipulated according to your needs:


1. From the Curve Settings screen tap on **[Edit]**:

[Settings ► Curve ► Custom tab ► Select a User tab]



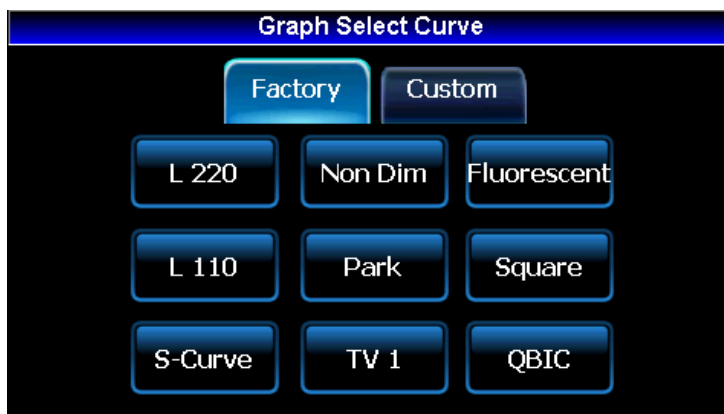
The Graph screen will open:



2. Tap on the icon .

-Cont. Next page...

The Graph Select Curve screen will open:

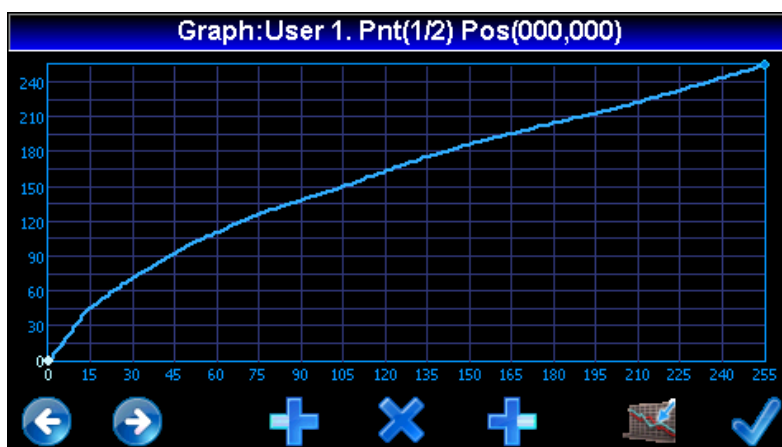



3. Tap on a factory or custom curve to edit.

The selected curve will be displayed.

Example:

In this example the factory curve, **[S-Curve]**, is used:



4. Use the graph editing controls to modify the curve. See [Graph Editing Controls](#)
5. Tap  to save the curve data.
You will return to the Curve Settings screen.
6. From the Curve Settings screen, do either of the following:
 - Tap **[Apply]**, and then tap **[OK]** (This will save the new curve under its current name)
 - OR-
 - Tap on the *Name* button and name the curve. See [Naming a Curve](#)



Administrator Permissions

The administrator can define permissions for different screens. This helps prevent unauthorized access or modifying of certain system settings. You can access Administrator Permissions from **[Settings ► Admin]**.

There are 3 types of permissions that can be used:

- **[Guest]:** Anyone can use and modify system settings without a password.
- **[Operator]:** Only certain settings can be modified using a special password.
- **[Admin]:** All settings can be modified by the administrator using a special password.

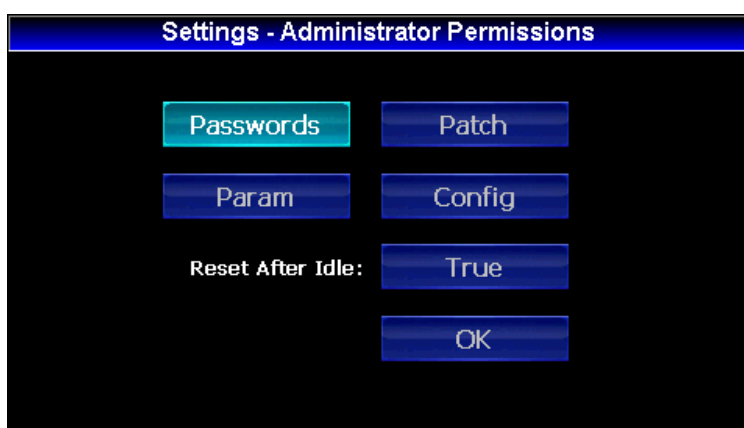


Figure 21: Administrator Permissions Screen

Passwords

Passwords for Operator and Admin can be changed in the **[Settings ► Admin ► Passwords]** screen. Passwords are numeric and can contain up to 4 number from 1 – 9999.

The following are the default passwords:

- *Operator:* 1111
- *Admin:* 1234



To change passwords

1. From the Administrator Permissions screen, tap on **[Passwords]:**
[Settings ► Admin ► Passwords]
2. Tap on either the *Operator* or *Admin* button.
3. Enter in the new password.
4. Tap **[OK]** to save the password.
5. Tap **[OK]** to return to the Administrator Permissions screen.

Changing Permissions

Permissions can be set for the following:

Button	Set Permissions for...
[Param]	Dimmer Params
[Patch]	Ethernet Sources Dimmers Patch
[Config]	Ethernet Settings Curve Settings Settings – LCD Settings - Fan

Reset After Idle

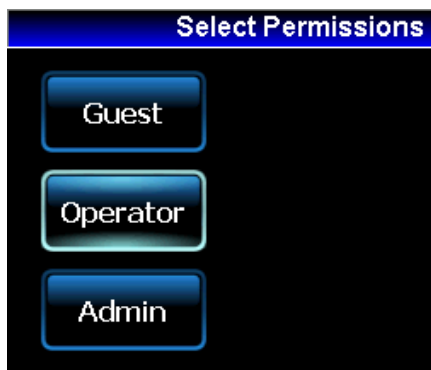
If *Reset after Idle* is set to **[True]**, then each time you unlock the system from idle mode or lock screen you will need to provide a password for certain screens.

If *Reset after Idle* is set to **[False]**, then the system will NOT ask for a password after you unlock from idle mode or lock screen.

To change permissions

1. From the Administrator Permissions screen [**Settings ► Admin**], tap on a button to set permissions. (**[Param]**, **[Patch]** or **[Config]**)
2. From the option menu, tap on a button to set permissions.

The Select Permissions screen will be displayed:



3. Tap on either; **[Guest]**, **[Operator]** or **[Admin]** to set permission.
4. Tap **[OK]**.
5. Tap **[OK]** again to return to the settings screen.



Software / Hardware Upgrade

The following can be performed from the Upgrade screen; **[Settings ► Upgrade]**:

- Software Upgrades
- DSP Upgrades (Hardware Upgrades). The Control module has 2 DSP units which can be upgraded separately.
- Restore Firmware.

All Upgrades are done automatically via a USB stick, provided the Upgrade files are placed on the root directory of the USB stick.

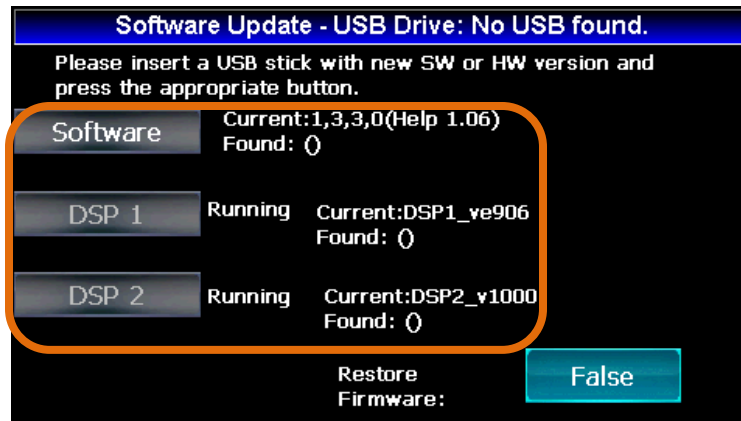


Figure 22: Software / Hardware Upgrade Screen



Important Notes Before Upgrading:

- Please make sure that the new Software / Hardware files are placed on the root directory of the USB stick.
- The USB stick needs to be inserted into the USB port located on the front of the console.

To upgrade system software / hardware

The following procedure can be used to upgrade, Software, DSP hardware or Help files:

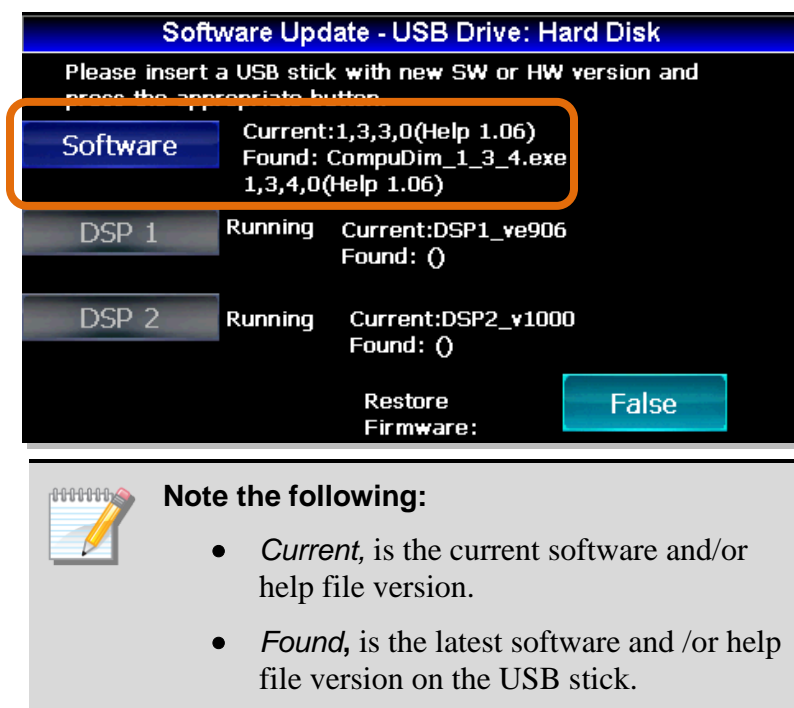
1. Make sure the upgrade files are on the root directory of the USB stick.
2. Insert the USB stick into the USB port located on the front of the console:



3. From the Home menu, tap **[Settings ► Upgrade]**

-Cont. Next page...

The system will automatically detect the new upgrade files:



4. Tap on **[Software]** to upgrade the system software.

-OR-

Tap on **[DSP]** if you are upgrading the DSP files.

The system will start the upgrade process and will automatically reboot.

Restore Firmware

The Restore firmware button enables you to revert back to the original firmware of the DSP's. This is very useful if you experience a software failure after an upgrade. By default this setting is **[False]**



Figure 23: Restore Firmware Option

To restore firmware

1. From the Home menu, tap **[Settings ► Upgrade]**
2. From the upgrade screen, tap on the *Restore Firmware* button to change the setting from **[False]** to **[True]**.



Note the following:

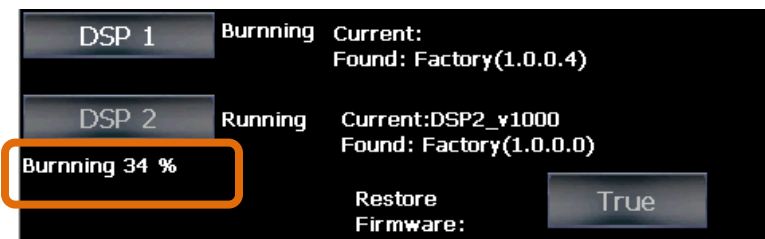
- By default the option is set to **[False]**.
- By changing the option to **[True]**, will enable you to restore the firmware.

The DSP options will become active displaying the *Current* DSP version and the *Found* factory version:



3. Tap on a **[DSP]** button to restore firmware.

The text “*Burning*” will appear, indicating that the firmware is restoring:



4. After the restoring process has completed, the text “*Finished OK*” will appear.
5. Press **ESCAPE** to return to the Settings menu.



LCD Settings

The LCD settings screen is where you define what happens when the system goes into sleep mode. The LCD settings are accessed from the Settings menu; **[Settings ► LCD]**

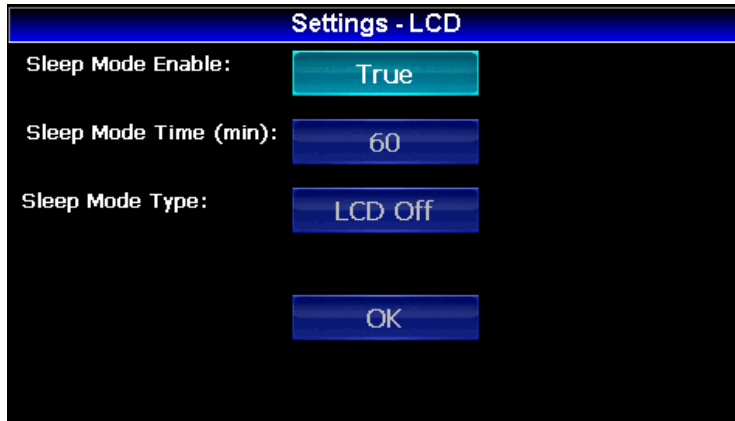


Figure 24: LCD Settings Screen

LCD Options

The following are the LCD Setting options and what they do:

LCD Button	What it does...
<i>Sleep Mode Enable</i>	This enables or disables the sleep mode. [True] – Enable Sleep Mode [False] – Disable Sleep Mode
<i>Sleep Mode Time (min)</i>	How many minutes should elapse before sleep mode is activated. (0-60min)
<i>Sleep Mode Type</i>	Here you can choose what type of screen saver you want when the system goes into sleep mode. Sleep mode type has the following modes: <ul style="list-style-type: none"> • [Status Screen] – This will show the Rack Status screen. • [Screen Saver] – This is a matrix screen saver that will display the software and hardware version, rack number and address. • [LCD Off] – This mode will turn the LCD screen off.



Fan Settings



The Fan settings are used to adjust the speed of the fan in the rack. This helps to decrease the temperature inside the drawers. Fan settings are accessed from the settings menu; **[Settings ► Fan]**



Figure 25: The Fan Settings Screen

Fan Options

The following are the Fan setting buttons and how to use them:

Fan Button	How to use them...
<i>Fan Mode:</i>	<p>There are 4 types of fan modes:</p> <p>[Off] – The fan will be disabled until the temp reaches 60C° in which case the fan will turn ON. The fan will only turn off again when the temp is back at 50C°.</p> <p>[Linear] – The fan will only activate if at least 1 dimmer in the rack reaches 40C°. The fan will turn off when the dimmer temp is down to 35C°. <i>This is the default setting.</i></p> <p>[Intensity] – The fan will only activate if at least 2 dimmers reach 50% of the dimmer output, or if 4 dimmers reach 10% of the dimmer output for 30 seconds. The fan will automatically turn off after 15 seconds.</p> <p>[ON] – The fan will work at maximum value all the time.</p>
<i>Minimum (%)</i>	<p>This is the minimum fan speed value. The value must be in percentage.</p> <p> Note: Recommended minimum is 30%</p>
<i>Maximum (%)</i>	<p>This is the maximum fan speed value. The value must be in percentage.</p> <p> Note: Recommended maximum is 99%</p>



Reset Factory Defaults

Factory defaults can be reset from the Restore screen which is accessed from the Settings menu; **[Settings ► Restore]**

The following restore options exist:

- **[Reset Patch]** – All patch data will be reset.
- **[Reset Config]** – All configuration data will be reset.
- **[Reset Param]** – All parameter data will be reset.
- **[Reset All]** – This will reset ALL data; Patch, Config and Param.

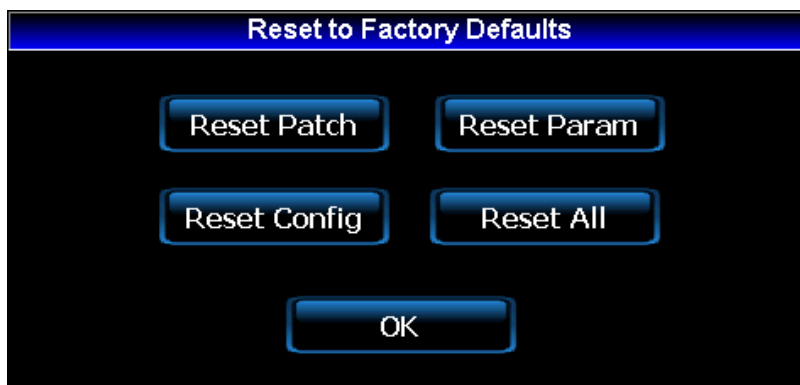


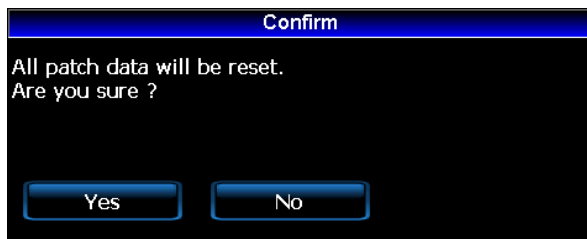
Figure 26: Restore Factory Defaults Screen

To reset factory defaults

1. From the Home screen tap **[Settings ► Restore]**.
2. Tap on the settings you want to reset. (Patch, Config, Params or All)

A Confirmation dialog screen will appear.

Example: In this example the **[Reset Patch]** was selected:



3. Tap **[Yes]** to confirm reset

-OR-

Tap **[No]** to cancel

If you choose **[Yes]** to confirm reset, a message will appear confirming the reset.



Backup / Restore

A backup of your settings can be done from the Backup/Restore screen; **[Settings ► Backup]**. The Log file can also be saved from this screen.

Previous backups can also be restored from a USB stick. All backups will be saved in folder called “**DimmerBackup**”, which will automatically be created on a USB stick.



Figure 27: Backup/Restore Screen



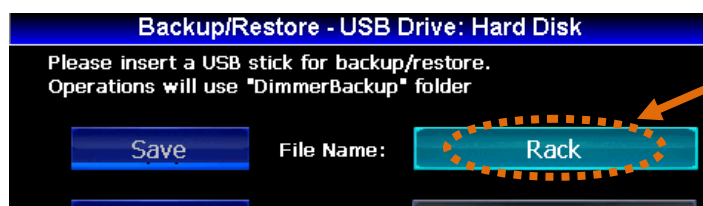
Note: All the screen options will be greyed out until a USB stick is inserted.

To backup settings

1. Insert a USB stick into the USB port.
2. From the Home menu tap **[Settings ► Backup]**.
3. From the Backup/Restore screen tap on the *File Name* button, to change the file name.

-OR-

If you want to keep the current file name (Rack), move to step 5.

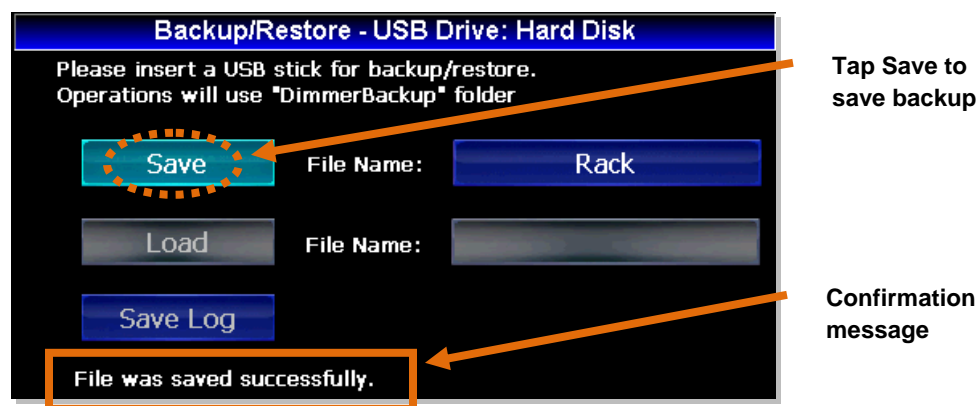


Tap here to
change file
name

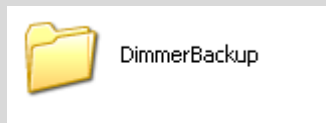
4. Using the virtual keyboard, type in a logical file name, then tap **[OK]**.
5. From the Back/Restore screen tap **[Save]**.

-Cont. Next page...

The backup will be saved, and a confirmation message will appear:



Note: The backup file is saved in a folder called “**DimmerBackup**”. This file is automatically created on the USB stick:



To restore a backup

1. Insert the USB stick that contains the backup into the USB port.
2. From the Home menu tap **[Settings ► Backup]**.
3. From the Backup/Restore screen tap **[Load]**.

-OR-

Tap on the *File Name* button, select the file you want to restore, tap **[Load]**.



Note the following:

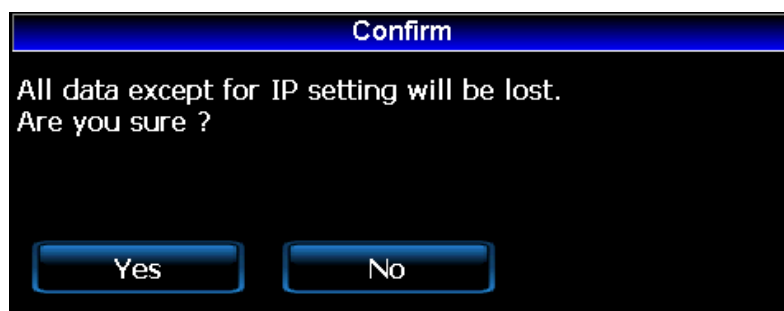
- The **[Load]** option will only become active if a backup exists on the USB stick. If NO backup exists, the **[Load]** option will be greyed out.
- The *File Name* button will only be active if there is more than one backed up file:



2 backed up files

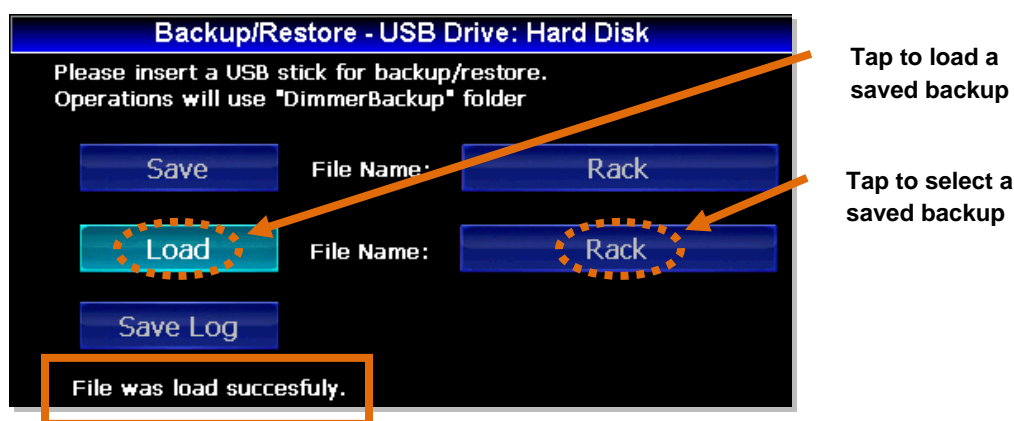
-Cont. Next page...

A Confirm screen will appear:



4. Tap **[Yes]** to confirm restore, **[No]** to cancel.

The backup will be restored and a confirmation message will appear:

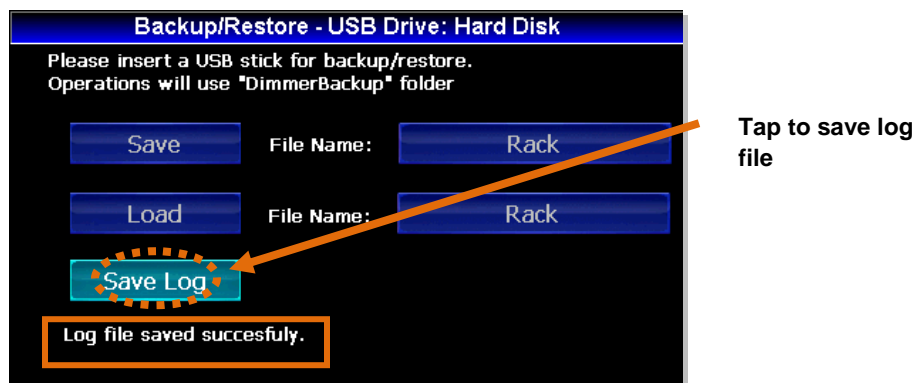


To save log file

The current log file can be saved to the **DimmerBackup** folder on the USB stick. The file will be called “**DimmerLog.txt**”

1. Insert a USB stick into the USB port.
2. From the Home menu tap **[Settings ► Backup]**.
3. Tap **[Save Log]**.

The log file will be saved and a confirmation message will appear:



Troubleshooting

- If you receive an “Over Current Error”, set the intensity level to zero in order to reset.
- If you get an error message every time you turn on the cabinet, then perform the following:
 1. Make sure the cabinet is off.
 2. Connect a USB keyboard to the USB port.
 3. Turn on the cabinet while pressing ESC on the USB keyboard.

This will prevent the application from running and will enable you to trouble shoot the problem.

- If the fan is running constantly, check the fan mode settings. (Fan mode **[ON]** will cause the fan to run constantly). See : [Fan Options](#)
- If the dimmer output is incorrect, for example; the console is sending 100% but you only see 50%. Check the dimmer Params. Make sure the Params are in default.

See: [Parameter Settings](#)

- If the dimmer is flickering, make sure that you don't have 2 input sources from 2 different consoles.

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