



 **Strand**

# AURORA LED STRIP

4 CELL

USER MANUAL

# 1 DESCRIPTION

## FEATURES

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- **High output LED Strip with 4- and 12-cell versions** - modern theatrical strip with quality you can trust.
- **High CRI RGBALC Color System with SmartColor Control** - wide range of vivid color options that can be programmed using CYM
- **Independent color mixing and temperature controls** - match color pallet to color temperature without manual adjustment for simpler programming
- **Pixel control of each cell** - easily create split colors or gradients
- **Fanless design** - perfect for use in quiet environments
- **Adjustable frequency to exceed camera frame rates** - camera friendly fixtures for IMAG, event recordings, or TV and film applications
- **Adjustable beam angle** - optional lens accessory kit offers wider and shaped beams

Download the product datasheet from the Strand website at [www.strandlighting.com](http://www.strandlighting.com) for the full technical specifications.

## COMPONENTS

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The document provides installation and operation instructions for the following products:

- Strand Aurora LED Strip 4 Cell

Read all instructions before installing or using this product. Retain this manual for future reference. Additional product information and descriptions may be found on the product specification sheet.

## INCLUDED ITEMS

Each Strand Aurora LED Strip luminaire includes the following items:

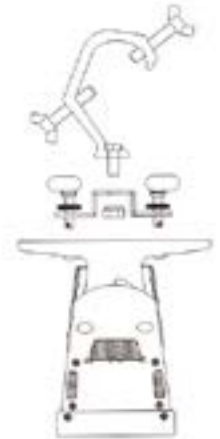
- Strand Aurora LED Strip 4 Cell
- Quick Start Guide

# 2 INSTALLATION

## MOUNTING

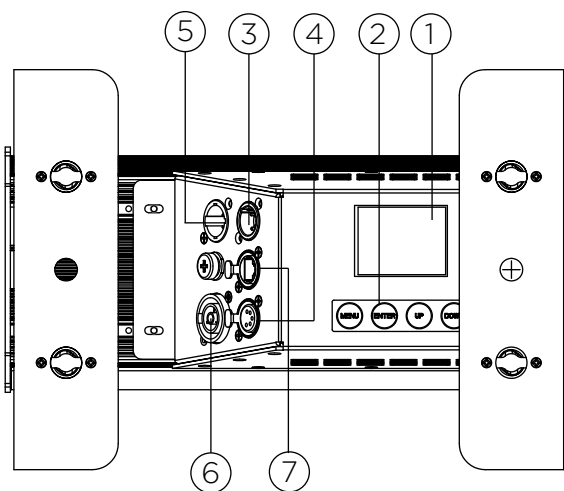
The unit should be mounted via its screw holes on the bracket. Always ensure that the unit is firmly fixed to avoid vibration and slipping while operating. When installing the fixture, always use a safety cable that is certified to hold up to 12 times the fixture's own weight.

The luminaire must be installed by qualified professionals.



## SET UP

### CONTROL PANEL



- ① **LCD DISPLAY.** Shows the menu and selected function buttons.
- ② **BUTTONS.**  
**Menu.** To select programming functions.  
**Down.** To go backward in the selected functions.  
**Up.** To go forward in the selected functions.  
**Enter.** To confirm the selected functions.
- ③ **DMX IN.** 5-pin XLR cable to link DMX console.
- ④ **DMX OUT.** 5-pin XLR cable to to the next unit.
- ⑤ **POWER IN.** Connects to power supply.
- ⑥ **POWER OUT.** Connects to next fixture.
- ⑦ **Artnet/sACN.** RJ45 connector to link Artnet/sACN from source.

### MAIN FUNCTIONS

Press the MENU button to Choose any functions, until the required function is shown in the display. Choose the desired function by pressing ENTER, which will cause the display to blink. Use the UP and DOWN button to change the mode. Once the required mode has been Selected, press the ENTER button to accept the Selection, otherwise after a period of one minute wait, the the menu will return automatically to the main functions, without any changes having been made. Return to the main functions without making any changes by pressing the MENU button. The main functions are shown in [TABLE 1](#).

**TABLE 1. MENU FUNCTIONS**

LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	LEVEL 6	DEFAULT		
Address	001-512	(Default 001)						
Configure	LED	LED Hours	XXXXXX h					
		Reset LED Hour	Are you sure?					
		Dimming Curve	Square Curve				(Default)	
			S Curve					
			Linear Curve					
		Tungsten Fade	On					
			Off				(Default)	
		Dim Snap	On (Fast)					
			Off (Slow)				(Default)	
		LED Frequency	1200Hz				(Default)	
			2500Hz					
			5000Hz					
			10000Hz					
			20000Hz					
		White Balance	Red		125 - 255			Default 255
			Green		125 - 255			Default 255
			Blue		125 - 255			Default 255
			Amber		125 - 255			Default 255
			Lime		125 - 255			Default 255
			Cyan		125 - 255			Default 255
		Reset		YES/NO				
	Color Cal	On						
		Off					(Default)	
	Disp Timeout	30 Sec					(Default)	
		5 Min						
		10 Min						
		On						
	Reset to Factory Defaults							
Choose Signal	DMX Only							
	Art-Net							
	SACN							
Set Artnet/SACN	Set Universe	000-255				(Default 000)		
	Ethernet IP	XXX. XXX. XXX. XXX						
	Ether Mask IP	XXX. XXX. XXX. XXX						

**TABLE 1. MENU FUNCTIONS**

LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	LEVEL 6	DEFAULT	
DMX	Address	001-512					
	DMX Mode	SSCC				(Default)	
		SQCC					
		SOCC					
	Pixel Group	Group 1				(Default)	
		Group 3					
		Group 4					
	Cell Direction	Normal				(Default)	
		Flipped					
	Data	Ch 1 - Intensity XXX (Value)					
Ch 2 - Intensity Fine XXX (Value)							
.....All functions							
Fixture	UID Number	RDM UID number					
	Status	(No Errors... or displays a list of errors)					
	Reboot Fixture	Are you sure?					
	Version	VXXX	MM/DD/YY	HH:MM			
	Fixture Hours	XXXXXX h					
	Crossload (Software)	Send					
	Service	Diagnostics	Board Check				
Manual Control	Red	0 - 255			(Default 0)		
	Green	0 - 255			(Default 0)		
	Blue	0 - 255			(Default 0)		
	Amber	0 - 255			(Default 0)		
	Lime	0 - 255			(Default 0)		
	Cyan	0 - 255			(Default 0)		
Color Preset	Preset Run	Choose preset		1 to 20			
		Intensity		0 - 255			
	Edit Programs				Intensity*	0 - 255	
					Red	0 - 255	
					Green	0 - 255	
					Blue	0 - 255	
					Amber	0 - 255	
					Lime	0 - 255	
					Cyan	0 - 255	
					Store	YES/NO	
			Clear	YES/NO			

## ADDRESS MENU

**Address** — Choose DMX Address, press the ENTER button to confirm. Use the UP/DOWN button to adjust the address from 001 to max, press the ENTER button to store. Press the MENU button to return to previous menu or let the unit idle one minute to exit menu mode.

## CONFIGURE MENU

Choose Configure, press the ENTER button to confirm, use the UP/DOWN button to Choose LED, Color Cal, Disp Timeout, Choose Signal and Set Artnet / SACN.

### LED

Choose LED, press the ENTER button to confirm. Use the UP/DOWN button to Choose LED Hours, Reset LED Hour, Dimming Curve, Tungsten Fade, Dim Snap, LED Frequency and White Balance. Press the ENTER button to store. Press the MENU button to return to previous menu or let the unit idle one minute to exit menu mode.

**LED Hours** — Choose LED Hours, press the ENTER button to confirm, LED Hours will show on the display Press the MENU button to return to previous menu.

**Reset LED Hours** — Choose Reset LED Hours, press the ENTER button to confirm, “Are you sure” will show on the display. Press the MENU button to return to previous menu.

**Dimming Curve** — To Choose Dimming Curve, press the ENTER button to confirm. Use the UP/DOWN button to Choose Square Law Curve, S Law Curve or Linear Law Curve, press the ENTER button to store. Press the MENU button to return to previous menu or let the unit idle one minute to exit menu mode.

**Tungsten Fade** — Choose Tungsten Fade, press the ENTER button to confirm, Use the UP/DOWN button to Choose ON or OFF; press ENTER to store. Press the MENU button to return to previous menu.

**Dim Snap** — Choose Dim Snap, press the ENTER button to confirm, Use the UP/DOWN button to Choose ON or OFF. Press the MENU button to return to previous menu.

**LED Frequency** — Choose LED Frequency, press the ENTER button to confirm. Use the UP/DOWN button to Choose 1200Hz, 2500Hz, 5000Hz, 10000Hz, 20000Hz, 25000Hz, press the ENTER button to store. Press the MENU button to return to previous menu or let the unit idle one minute to exit menu mode.

**White Balance** — Choose White Balance; press the ENTER button to confirm. Use the UP/DOWN button to select Red, Green, Blue, Amber, Lime, Cyan and RESET; press the ENTER button to store. Press the MENU button to return to previous menu or let the unit idle one minute to exit menu mode.

### Color Cal

Choose Color Cal, press the ENTER button to confirm. Use the UP/DOWN button to Choose ON or OFF. Press the MENU button to return to previous menu.

### Disp Timeout

Choose Disp Timeout, press the ENTER button to confirm. Use the UP/DOWN button to Choose 30 Sec, 5min, 10 min or ON Press the MENU button to return to previous menu.

### Choose Signal

Choose Signal, press the ENTER button to confirm. Use the UP/DOWN button to Choose DMX Only, ArtNet or sACN. Press the MENU button to return to previous menu.

## DMX MENU

Choose DMX, press the ENTER button to confirm, use the UP/DOWN button to Choose Address, DMX Mode, Pixel Group, Cell Direction or Data.

**Address** — Choose Address, press the ENTER button to confirm. Use the UP/DOWN button to Choose from 001 to 512. press the ENTER button to store. Press the MENU button to return to previous menu or let the unit idle one minute to exit menu mode.

**DMX Mode** — Choose DMX Mode, press the ENTER button to confirm. Use the UP/DOWN button to Choose SSSC, SQCC or SOCC, press the ENTER button to store. Press the MENU button to return to previous menu or let the unit idle one minute to exit menu mode.

**Pixel Group** — Choose Pixel Group, press the ENTER button to confirm. Use the UP/DOWN button to Choose Group 1, 4, or 12, press the ENTER button to store. Press the MENU button to return to previous menu or let the unit idle one minute to exit menu mode.

**Cell Direction** — Choose Cell Direction, press the ENTER button to confirm. Use the UP/DOWN button to Choose Normal or Flipped, press the ENTER button to store. Press the MENU button to return to previous menu or let the unit idle one minute to exit menu mode.

**Data** — Choose Data, press the ENTER button to confirm. Use the UP/DOWN button to Choose Ch1 – Intensity xxx(value), Ch2 – Intensity Fine xxx(Value), .... All functions, press the ENTER button to store. Press the MENU button to return to previous menu or let the unit idle one minute to exit menu mode.

## FIXTURE MENU

Choose Fixture, press the ENTER button to confirm, use the UP/DOWN button to Choose Status, Reboot fixture, Version, Fixture Hours, Crossload (Software), Service. Press the ENTER button to select.

### Status

Choose Status, press the ENTER button to confirm, Status will show on the display Press the MENU button to return to previous menu.

### Reboot Fixture

Choose Reboot Fixture, press the ENTER button to confirm, Are you sure? will show on the display, press the ENTER button to confirm.

### Version

Choose Version, press the ENTER button to confirm, Version will show on the display. Press the MENU button to return to previous menu or let the unit idle one minute to exit menu mode.

### Fixture Hours

Choose Fixture Hours, press the ENTER button to confirm, Fixture Hours will show on the display. Press the MENU button to return to previous menu or let the unit idle one minute to exit menu mode.

### Crossload (Software)

Choose Crossload (Software), press the ENTER button to confirm, Send will show on the display. Press the MENU button to return to previous menu or let the unit idle one minute to exit menu mode.

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**NOTE:** Incoming DMX must be removed from the fixture or software crossload will not be activated.

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### Service

Choose Service, press the ENTER button to confirm. Press the MENU button to return to previous menu or let the unit idle one minute to exit menu mode.

**Diagnostics** — Choose Diagnostics, press the ENTER button to confirm. Use the UP/DOWN button to Choose Board Check. Press the ENTER button to store. Press the MENU button to return to previous menu or let the unit idle one minute to exit menu mode.

## MANUAL CONTROL MENU

Choose Manual Control, press the ENTER button to confirm, use the UP/DOWN button to Choose Red, Green, Blue, Amber, Lime and Cyan. Use the UP/DOWN button to adjust the value from 0 to 255, press the ENTER button to store. Press the MENU button to return to previous menu or let the unit idle one minute to exit menu mode.

## COLOR PRESET MENU

### Preset Run

Enter Color Preset mode, Choose Preset Run, press the ENTER button to confirm, use the UP/DOWN button to Choose “Choose Preset” or Intensity.

### Edit Programs

Enter menu mode, choose Edit Programs, press the ENTER button to confirm, MODE will show up, use the UP/DOWN button to Choose Intensity, Red, Green, Blue, Amber, Lime, Cyan, Store or Clear. Use the UP/DOWN button to adjust the value from 0 to 100%. Press the ENTER button to confirm. Press the MENU button back to the last menu or let the unit idle one minute to exit.

# 3 DMX MAPPING

The fixture can be operated by DMX controller. The following tables assumes a DMX start address of 1. When a different starting address is used, this address becomes channel 1 function and other functions follow in sequence.

**TABLE 2. SSCC MODE**

DMX CHANNEL	PARAMETER	DEFAULTS	RANGE DMX	DESCRIPTION
1	Intensity (High)	0	0 - 65535	16-bit Intensity (Dimmer) Control
2	Intensity (Low)			0 - 100% Output Main or Cell 1 depending on group selection
3	Strobe	0	0 - 255	Strobe Control
			0 - 9	No Strobe Function - Shutter open
			10 - 99	Strobe S>>>>>F
			100 - 109	No Strobe Function - Shutter open
			110 - 179	Lighting Strobe S>>>>>F
			180 - 189	No Strobe Function - Shutter open
			190 - 255	Random Strobe S>>>>>F
4	Color Preset	0	0 - 255	Calibrated color presets 01 to 33 User definable color preset 01 to 20
			0 - 10	Channel OFF Color Mixing takes priority
			11 - 14	Moroccan Pink
			15 - 18	Pink
			19 - 22	Flesh Pink
			23 - 26	Bright Rose
			27 - 30	Follies Pink
			31 - 34	Fuchsia Pink
			35 - 38	Surprise Pink
			39 - 42	Congo Blue
			43 - 46	Blue
			47 - 50	Virgin Blue
			51 - 54	Midnight Maya
			55 - 58	Double C.T Blue
			59 - 62	Slate Blue
			63 - 66	Regal Blue
			67 - 70	Full C.T Blue
			71 - 74	Steel Blue
			75 - 78	Lighter Blue
			79 - 82	Cyan
			83 - 86	Marine Blue
			87 - 90	Soft Green
			91 - 94	Moss Green
95 - 98	Green			
99 - 102	Fem Green			
103 - 106	JAS Green			
107 - 110	Pale Green			
111 - 114	Spring Yellow			



TABLE 2. SSCC MODE

DMX CHANNEL	PARAMETER	DEFAULTS	RANGE DMX	DESCRIPTION
4	Color Preset continued	0	115 - 118	Yellow
			119 - 122	Deep Amber
			123 - 126	Chrome Orange
			127 - 130	Orange
			131 - 134	Magenta
			135 - 138	Flame Red
			139 - 142	Purple
			143 - 146	User Preset 1
			147 - 150	User Preset 2
			151 - 154	User Preset 3
			155 - 158	User Preset 4
			159 - 162	User Preset 5
			163 - 166	User Preset 6
			167 - 170	User Preset 7
			171 - 174	User Preset 8
			175 - 178	User Preset 9
			179 - 182	User Preset 10
			183 - 186	User Preset 11
			187 - 190	User Preset 12
			191 - 194	User Preset 13
195 - 198	User Preset 14			
199 - 202	User Preset 15			
203 - 206	User Preset 16			
207 - 210	User Preset 17			
211 - 214	User Preset 18			
215 - 218	User Preset 19			
219 - 222	User Preset 20			
223 - 255	Channel OFF Color Mixing takes priority			
5	Control Channel	0	0 - 255	Control Channel used for full fixture settings, lamp controls and miscellaneous modes. Set discrete value of desired effect then set value to 0 (Idle). **Function does not require 3 second rule Value will automatically activate function
			0 - 5	Idle (Default)
			6 - 10	Full Luminaire ReCal - Also used to wake the fixture up from shutdown.
			11 - 15	Fixture Shutdown
			16 - 20	Reserved Values
			21 - 25	Display - Menu ON
			26 - 30	Display - Menu OFF
			31 - 35	Tungsten Dimming On**
			36 - 40	Tungsten Dimming Off (Default)**
			41 - 45	Dimming Curve Linear**
			46 - 50	Dimming Curve S-Curve**
			51 - 55	Dimming Curve Square Law (Default)**
			56 - 60	Reserved
			61 - 65	Dimmer Snap On**
			66 - 70	Dimmer Snap Off (Default)**
71 - 90	Reserved Values			

**TABLE 2. SSCC MODE**

DMX CHANNEL	PARAMETER	DEFAULTS	RANGE DMX	DESCRIPTION
5	Control Channel (continued)	0	91 - 95	Color Calibration on
			96 - 100	Color Calibration off (Default)
			101 - 105	Reserved Values
			106 - 110	Reserved Values
			111 - 150	Reserved Values
			151 - 155	Record User Color Preset**
			156 - 160	"Cell Flip 1
			161 - 165	"Cell Flip 4
			166 - 170	Reserved Values
			171 - 175	Reset fixture to default
			176 - 255	Reserved Values
6	Cyan (High)	0	0 - 65535	Cyan Color Level Control 0 - 100% Saturation The 6 color LED array auto-adjusts to meet Cyan / mixed color point of full available color spectrum
7	Cyan (Low)			
8	Yellow (High)	0	0 - 65535	Yellow Color Level Control 0 - 100% Saturation The 6 color LED array auto-adjusts to meet Yellow / mixed color points of fully available color spectrum
9	Yellow (Low)			
10	Magenta (High)	0	0 - 65535	Magenta Color Level Control 0 - 100% Saturation The 6 color LED array auto-adjusts to meet Magenta / mixed color points of fully available color spectrum
11	Magenta (Low)			
12	CTO	75	0 - 250	Variable color temperature control. The channel works independently of the color mixing channel and will adjust all mixed color from the selected color temperature level. values stated below are for guidance only. the channel should be mapped in such a way that the channel level runs are variable from 0 - 250.
			0	1800K
			25	2700K
			50	3000K
			75	3200K (Default)
			100	4000K
			125	4500K
			150	5000K
			175	5600K
			200	6500K
			225	8000K
			250	10000K
250 - 255	Reserved Hold 10000K			

**TABLE 3. SSCC MODE: 4 CELL SELECTED - ADDITIONAL CHANNELS ADDED**

DMX CHANNEL	PARAMETER	DEFAULTS	RANGE DMX	DESCRIPTION
6	Cyan (High)	0	0 - 65535	Cyan Color Level Control 0 - 100% Saturation The 6 color LED array auto-adjusts to meet Cyan / mixed color point of full available color spectrum
7	Cyan (Low)			
8	Yellow (High)	0	0 - 65535	Yellow Color Level Control 0 - 100% Saturation The 6 color LED array auto-adjusts to meet Yellow / mixed color points of fully available color spectrum
9	Yellow (Low)			
10	Magenta (High)	0	0 - 65535	Magenta Color Level Control 0 - 100% Saturation The 6 color LED array auto-adjusts to meet Magenta / mixed color points of fully available color spectrum
11	Magenta (Low)			

**TABLE 3. SSCC MODE: 4 CELL SELECTED - ADDITIONAL CHANNELS ADDED**

DMX CHANNEL	PARAMETER	DEFAULTS	RANGE DMX	DESCRIPTION
12	CTO	75	0 - 250	Variable color temperature control channel Channel works Independent of color mixing channel and will adjust all mixed color from selected color temperature level. Values stated below are a for guidance only channel should be mapped in such away that channel level runs variable from 0 - 250
			0	1800K
			25	2700K
			50	3000K
			75	3200K (Default)
			100	4000K
			125	4500K
			150	5000K
			175	5600K
			200	6500K
			225	8000K
			250	10000K
			250 - 255	Reserved Hold 10000K
			25	2700K
50	3000K			
<b>CELL 2</b>				
13	Intensity 2 (High)	0	0 - 65535	16-bit Intensity (Dimmer) Control 0 - 100% Output Cell 2
14	Intensity 2 (Low)			
15	Cyan (High)	0	0 - 65535	Cyan Color Level Control 0 - 100% Saturation The 6 color LED array auto-adjusts to meet Cyan / mixed color points of fully available color spectrum
16	Cyan (Low)			
17	Yellow (High)	0	0 - 65535	Yellow Color Level Control 0 - 100% Saturation The 6 color LED array auto-adjusts to meet Yellow / mixed color points of fully available color spectrum
18	Yellow (Low)			
19	Magenta (High)	0	0 - 65535	Magenta Color Level Control 0 - 100% Saturation The 6 color LED array auto-adjusts to meet Magenta / mixed color points of fully available color spectrum
20	Magenta (Low)			
21	CTO	75	0 - 250	Variable color temperature control channel Channel works Independent of color mixing channel and will adjust all mixed c color from selected color temperature level. Values stated below are a for guidance only channel should be mapped in such away that channel level runs variable from 0 - 250
			0	1800K
			25	2700K
			50	3000K
			75	3200K (Default)
			100	4000K
			125	4500K
			150	5000K
			175	5600K
			200	6500K
			225	8000K
			250	10000K
			250 - 255	Reserved Hold 10000K

**TABLE 3. SSCC MODE: 4 CELL SELECTED - ADDITIONAL CHANNELS ADDED**

DMX CHANNEL	PARAMETER	DEFAULTS	RANGE DMX	DESCRIPTION
<b>CELL 3</b>				
22	Intensity 3 (High)	0	0 - 65535	16-bit Intensity (Dimmer) Control 0 - 100% Output
23	Intensity 3 (Low)			
24	Cyan (High)	0	0 - 65535	Cyan Color Level Control 0 - 100% Saturation The 6 color LED array auto-adjusts to meet Cyan / mixed color points of fully available color spectrum
25	Cyan (Low)			
26	Yellow (High)	0	0 - 65535	Yellow Color Level Control 0 - 100% Saturation The 6 color LED array auto-adjusts to meet Yellow / mixed color points of fully available color spectrum
27	Yellow (Low)			
28	Magenta (High)	0	0 - 65535	Magenta Color Level Control 0 - 100% Saturation The 6 color LED array auto-adjusts to meet Magenta / mixed color points of fully available color spectrum
29	Magenta (Low)			
30	CTO	75	0 - 250	Variable color temperature control channel Channel works Independent of color mixing channel and will adjust all mixed color from selected color temperature level. Values stated below are a for guidance only channel should be mapped in such away that channel level runs variable from 0 - 250
			0	1800K
			25	2700K
			50	3000K
			75	3200K (Default)
			100	4000K
			125	4500K
			150	5000K
			175	5600K
			200	6500K
			225	8000K
			250	10000K
			250 - 255	Reserved Hold 10000K
<b>CELL 4</b>				
31	Intensity 4 (High)	0	0 - 65535	16-bit Intensity (Dimmer) Control 0 - 100% Output
32	Intensity 4 (Low)			
33	Cyan (High)	0	0 - 65535	Cyan Color Level Control 0 - 100% Saturation The 6 color LED array auto-adjusts to meet Cyan / mixed color points of fully available color spectrum
34	Cyan (Low)			
35	Yellow (High)	0	0 - 65535	Yellow Color Level Control 0 - 100% Saturation The 6 color LED array auto-adjusts to meet Yellow / mixed color points of fully available color spectrum
36	Yellow (Low)			
37	Magenta (High)	0	0 - 65535	Magenta Color Level Control 0 - 100% Saturation The 6 color LED array auto-adjusts to meet Magenta / mixed color points of fully available color spectrum
38	Magenta (Low)			

**TABLE 3. SSCC MODE: 4 CELL SELECTED - ADDITIONAL CHANNELS ADDED**

DMX CHANNEL	PARAMETER	DEFAULTS	RANGE DMX	DESCRIPTION
39	CTO	75	0 - 250	Variable color temperature control channel Channel works Independent of color mixing channel and will adjust all mixed color from selected color temperature level. Values stated below are a for guidance only channel should be mapped in such away that channel level runs variable from 0 - 250
			0	1800K
			25	2700K
			50	3000K
			75	3200K (Default)
			100	4000K
			125	4500K
			150	5000K
			175	5600K
			200	6500K
			225	8000K
			250	10000K
250 - 255	Reserved Hold 10000K			

**TABLE 4. SQCC MODE**

DMX CHANNEL	PARAMETER	DEFAULTS	RANGE DMX	DESCRIPTION
1	Intensity (High)	0	0 - 65535	16-bit Intensity (Dimmer) Control 0 - 100% Output
2	Intensity (Low)			
3	Strobe	0	0 - 255	Strobe Control
			0 - 9	No Strobe Function - Shutter open
			10 - 99	Strobe S>>>>>F
			100 - 109	No Strobe Function - Shutter open
			110 - 179	Lighting Strobe S>>>>>F
			180 - 189	No Strobe Function - Shutter open
190 - 255	Random Strobe S>>>>>F			
4	Color Preset	0	0 - 255	Calibrated color presets 01 to 33 User definable color preset 01 to 20
			0 - 10	Channel OFF Color Mixing takes priority
			11 - 14	Moroccan Pink
			15 - 18	Pink
			19 - 22	Flesh Pink
			23 - 26	Bright Rose
			27 - 30	Follies Pink
			31 - 34	Fuchsia Pink
			35 - 38	Surprise Pink
			39 - 42	Congo Blue
			43 - 46	Blue
			47 - 50	Virgin Blue
			51 - 54	Midnight Maya
			55 - 58	Double C.T Blue
59 - 62	Slate Blue			
63 - 66	Regal Blue			
67 - 70	Full C.T Blue			

TABLE 4. SQCC MODE

DMX CHANNEL	PARAMETER	DEFAULTS	RANGE DMX	DESCRIPTION
4	Color Preset continued	0	71 - 74	Steel Blue
			75 - 78	Lighter Blue
			79 - 82	Cyan
			83 - 86	Marine Blue
			87 - 90	Soft Green
			91 - 94	Moss Green
			95 - 98	Green
			99 - 102	Fem Green
			103 - 106	JAS Green
			107 - 110	Pale Green
			111 - 114	Spring Yellow
			115 - 118	Yellow
			119 - 122	Deep Amber
			123 - 126	Chrome Orange
			127 - 130	Orange
			131 - 134	Magenta
			135 - 138	Flame Red
			139 - 142	Purple
			143 - 146	User Preset 1
			147 - 150	User Preset 2
			151 - 154	User Preset 3
			155 - 158	User Preset 4
			159 - 162	User Preset 5
			163 - 166	User Preset 6
			167 - 170	User Preset 7
			171 - 174	User Preset 8
175 - 178	User Preset 9			
179 - 182	User Preset 10			
183 - 186	User Preset 11			
187 - 190	User Preset 12			
191 - 194	User Preset 13			
195 - 198	User Preset 14			
199 - 202	User Preset 15			
203 - 206	User Preset 16			
207 - 210	User Preset 17			
211 - 214	User Preset 18			
215 - 218	User Preset 19			
219 - 222	User Preset 20			
223 - 255	Channel OFF	Color Mixing takes priority		

**TABLE 5. SOCC MODE**

DMX CHANNEL	PARAMETER	DEFAULTS	RANGE DMX	DESCRIPTION
1	Intensity (High)	0	0 - 65535	16-bit Intensity (Dimmer) Control 0 - 100% Output
2	Intensity (Low)			
3	Strobe	0	0 - 255	Strobe Control
			0 - 9	No Strobe Function - Shutter open
			10 - 99	Strobe S>>>>>F
			100 - 109	No Strobe Function - Shutter open
			110 - 179	Lighting Strobe S>>>>>F
			180 - 189	No Strobe Function - Shutter open
			190 - 255	Random Strobe S>>>>>F
4	Color Preset	0	0 - 255	Calibrated color presets 01 to 33 User definable color preset 01 to 20
			0 - 10	Channel OFF Color Mixing takes priority
			11 - 14	Moroccan Pink
			15 - 18	Pink
			19 - 22	Flesh Pink
			23 - 26	Bright Rose
			27 - 30	Follies Pink
			31 - 34	Fuchsia Pink
			35 - 38	Surprise Pink
			39 - 42	Congo Blue
			43 - 46	Blue
			47 - 50	Virgin Blue
			51 - 54	Midnight Maya
			55 - 58	Double C.T Blue
			59 - 62	Slate Blue
			63 - 66	Regal Blue
			67 - 70	Full C.T Blue
			71 - 74	Steel Blue
			75 - 78	Lighter Blue
			79 - 82	Cyan
			83 - 86	Marine Blue
			87 - 90	Soft Green
			91 - 94	Moss Green
			95 - 98	Green
			99 - 102	Fem Green
			103 - 106	JAS Green
			107 - 110	Pale Green
			111 - 114	Spring Yellow
			115 - 118	Yellow
			119 - 122	Deep Amber
			123 - 126	Chrome Orange
			127 - 130	Orange
131 - 134	Magenta			
135 - 138	Flame Red			
139 - 142	Purple			

TABLE 5. SOCC MODE

DMX CHANNEL	PARAMETER	DEFAULTS	RANGE DMX	DESCRIPTION
4	Color Preset (continued)	0	143 - 146	User Preset 1
			147 - 150	User Preset 2
			151 - 154	User Preset 3
			155 - 158	User Preset 4
			159 - 162	User Preset 5
			163 - 166	User Preset 6
			167 - 170	User Preset 7
			171 - 174	User Preset 8
			175 - 178	User Preset 9
			179 - 182	User Preset 10
			183 - 186	User Preset 11
			187 - 190	User Preset 12
			191 - 194	User Preset 13
			195 - 198	User Preset 14
			199 - 202	User Preset 15
			203 - 206	User Preset 16
			207 - 210	User Preset 17
			211 - 214	User Preset 18
			215 - 218	User Preset 19
			219 - 222	User Preset 20
223 - 255	Channel OFF Color Mixing takes priority			
5	Control Channel	0	0 - 255	Control Channel used for full fixture settings lamp controls. Set discrete value of desired effect then set value to 0 (Idle). Function does not require the 3 second rule to activate; setting the output to a value will automatically activate the function
			0 - 5	Idle (Default)
			6 - 10	Full Luminaire ReCal -Also used to wake the fixture up from shutdown.
			11 - 15	Fixture Shutdown
			16 - 20	Reserved Values
			21 - 25	Display - Menu ON
			26 - 30	Display - Menu OFF
			31 - 35	Tungsten Dimming On**
			36 - 40	Tungsten Dimming Off (Default)**
			41 - 45	Dimming Curve Linear**
			46 - 50	Dimming Curve S-Curve**
			51 - 55	Dimming Curve Square Curve (Default)**
			56 - 60	Reserved
			61 - 65	Dimmer Snap On**
			66 - 70	Dimmer Snap Off (Default)**
			71 - 90	Reserved Values
			91 - 95	Color Calibration on
96 - 100	Color Calibration off (Default)			
101 - 150	Reserved Values			



TABLE 5. SOCC MODE

DMX CHANNEL	PARAMETER	DEFAULTS	RANGE DMX	DESCRIPTION
			151 - 155	Record User Color Preset**
			156 - 160	Cell Normal 1
			161 - 165	Cell Flip 4
			166 - 170	Reserved
			171 - 175	Reset fixture to default
			176 - 255	Revered
6	Red (High)	0	0 - 65535	Red Color Level Control 0 - 100% Saturation
7	Red (Low)			
8	Green (High)	0	0 - 65535	Green Color Level Control 0 - 100% Saturation
9	Green (Low)			
10	Blue (High)	0	0 - 65535	Blue Color Level Control; 0 - 100% Saturation
11	Blue (Low)			
12	Amber (High)	0	0 - 65535	Amber Color Level Control; 0 - 100% Saturation
13	Amber (Low)			
14	Lime (High)	0	0 - 65535	Lime Color Level Control; 0 - 100% Saturation
15	Lime (Low)			
16	Cyan (High)	0	0 - 65535	Cyan Color Level Control; 0 - 100% Saturation
17	Cyan (Low)			

TABLE 6. SOCC MODE: 4 CELL SELECTED - ADDITIONAL CHANNELS ADDED

DMX CHANNEL	PARAMETER	DEFAULTS	RANGE DMX	DESCRIPTION
<b>CELL 1</b>				
6	Red (High)	0	0 - 65535	Red Color Level Control; 0 - 100% Saturation
7	Red (Low)			
8	Green (High)	0	0 - 65535	Green Color Level Control; 0 - 100% Saturation
9	Green (Low)			
10	Blue (High)	0	0 - 65535	Blue Color Level Control; 0 - 100% Saturation
11	Blue (Low)			
12	Amber (High)	0	0 - 65535	Amber Color Level Control; 0 - 100% Saturation
13	Amber (Low)			
14	Lime (High)	0	0 - 65535	Lime Color Level Control; 0 - 100% Saturation
15	Lime (Low)			
16	Cyan (High)	0	0 - 65535	Cyan Color Level Control; 0 - 100% Saturation
17	Cyan (Low)			
<b>CELL 2</b>				
18	Red (High)	0	0 - 65535	Red Color Level Control; 0 - 100% Saturation
19	Red (Low)			
20	Green (High)	0	0 - 65535	Green Color Level Control; 0 - 100% Saturation
21	Green (Low)			
22	Blue (High)	0	0 - 65535	Blue Color Level Control; 0 - 100% Saturation
23	Blue (Low)			
24	Amber (High)	0	0 - 65535	Amber Color Level Control; 0 - 100% Saturation
25	Amber (Low)			
26	Lime (High)	0	0 - 65535	Lime Color Level Control; 0 - 100% Saturation
27	Lime (Low)			

**TABLE 6. SOCC MODE: 4 CELL SELECTED - ADDITIONAL CHANNELS ADDED**

DMX CHANNEL	PARAMETER	DEFAULTS	RANGE DMX	DESCRIPTION
28	Cyan (High)	0	0 - 65535	Cyan Color Level Control; 0 - 100% Saturation
29	Cyan (Low)			
<b>CELL 3</b>				
30	Red (High)	0	0 - 65535	Red Color Level Control; 0 - 100% Saturation
31	Red (Low)			
32	Green (High)	0	0 - 65535	Green Color Level Control; 0 - 100% Saturation
33	Green (Low)			
34	Blue (High)	0	0 - 65535	Blue Color Level Control; 0 - 100% Saturation
35	Blue (Low)			
36	Amber (High)	0	0 - 65535	Amber Color Level Control; 0 - 100% Saturation
37	Amber (Low)			
38	Lime (High)	0	0 - 65535	Lime Color Level Control; 0 - 100% Saturation
39	Lime (Low)			
40	Cyan (High)	0	0 - 65535	Cyan Color Level Control; 0 - 100% Saturation
41	Cyan (Low)			
<b>CELL 4</b>				
42	Red (High)	0	0 - 65535	Red Color Level Control; 0 - 100% Saturation
43	Red (Low)			
44	Green (High)	0	0 - 65535	Green Color Level Control; 0 - 100% Saturation
45	Green (Low)			
46	Blue (High)	0	0 - 65535	Blue Color Level Control; 0 - 100% Saturation
47	Blue (Low)			
48	Amber (High)	0	0 - 65535	Amber Color Level Control; 0 - 100% Saturation
49	Amber (Low)			
50	Lime (High)	0	0 - 65535	Lime Color Level Control; 0 - 100% Saturation
51	Lime (Low)			
52	Cyan (High)	0	0 - 65535	Cyan Color Level Control; 0 - 100% Saturation
53	Cyan (Low)			

**TABLE 7. COLOR PRESETS**

RANGE DMX	COLOR	RANGE DMX	COLOR
0 - 255	Calibrated color presets 01 to 33 User definable color preset 01 to 20	95 - 98	Green
		99 - 102	Fem Green
0 - 10	Channel OFF Color Mixing takes	103 - 106	JAS Green
11 - 14	Moroccan Pink	107 - 110	Pale Green
15 - 18	Pink	111 - 114	Spring Yellow
19 - 22	Flesh Pink	115 - 118	Yellow
23 - 26	Bright Rose	119 - 122	Deep Amber
27 - 30	Follies Pink	123 - 126	Chrome Orange
31 - 34	Fuchsia Pink	127 - 130	Orange
35 - 38	Surprise Pink	131 - 134	Magenta
39 - 42	Congo Blue	135 - 138	Flame Red
43 - 46	Blue	139 - 142	Purple

**TABLE 7. COLOR PRESETS**

RANGE DMX	COLOR	RANGE DMX	COLOR
47 - 50	Virgin Blue	143 - 146	User Preset 1
51 - 54	Midnight Maya	147 - 150	User Preset 2
55 - 58	Double C.T Blue	151 - 154	User Preset 3
59 - 62	Slate Blue	155 - 158	User Preset 4
63 - 66	Regal Blue	159 - 162	User Preset 5
67 - 70	Full C.T Blue	163 - 166	User Preset 6
71 - 74	Steel Blue	167 - 170	User Preset 7
75 - 78	Lighter Blue	171 - 174	User Preset 8
79 - 82	Cyan	175 - 178	User Preset 9
83 - 86	Marine Blue	179 - 182	User Preset 10
87 - 90	Soft Green	183 - 186	User Preset 11
91 - 94	Moss Green	187 - 190	User Preset 12
191 - 194	User Preset 13	211 - 214	User Preset 18
195 - 198	User Preset 14	215 - 218	User Preset 19
199 - 202	User Preset 15	219 - 222	User Preset 20
203 - 206	User Preset 16	223 - 255	Channel OFF Color Mixing takes
207 - 210	User Preset 17		

**TABLE 8. CTO CHANNEL**

DEFAULT	RANGE DMX	COLOR TEMPERATURE
	0 - 250	Variable color temperature control channel. The channel works independently of the color mixing channel and will adjust all mixed color from the selected color temperature level. Values stated below are for guidance only. The channel should be mapped in such a way, that the channel level runs are variable from 0 - 250.
75	0	1800K
	25	2700K
	50	3000K
	75	3200K (Default)
	100	4000K
	125	4500K
	150	5000K
	175	5600K
	200	6500K
	225	8000K
	250	10000K
	250 - 255	Reserved Hold 10000K

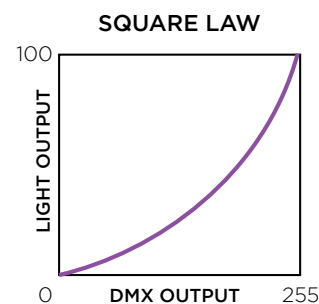
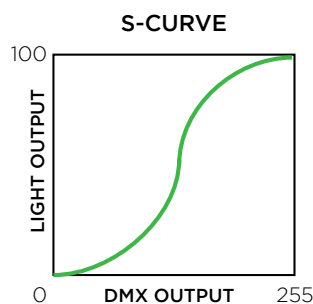
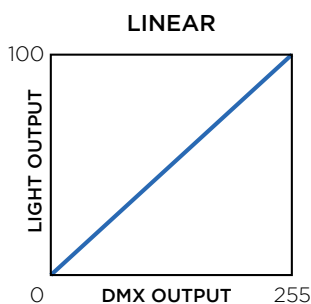


TABLE 9. CONTROL CHANNEL

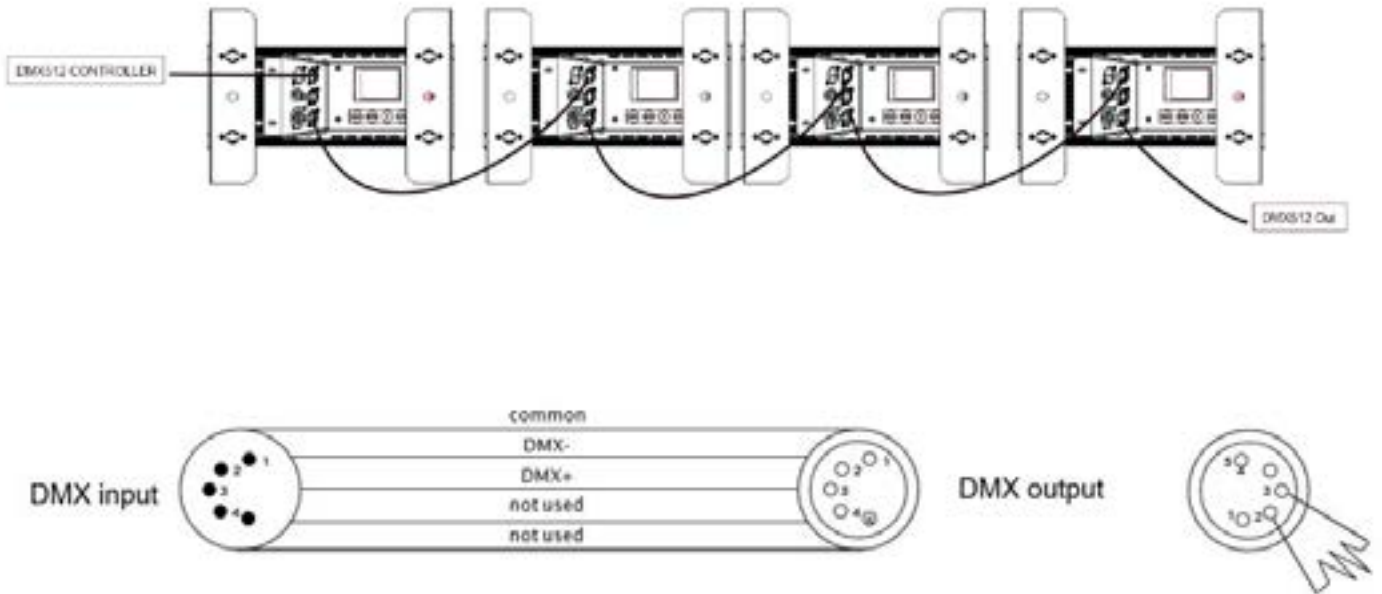
DMX CHANNEL	RANGE DMX	ITEMS	DESCRIPTION	POWER CYCLE RULES	FUNCTION SELECTION VIA UI
	0 - 255	Control Channel	Used for full fixture settings, lamp controls, and miscellaneous modes. Set discrete value of desired Effect, wait >3 seconds, then set value to 0 (Idle). **Function does not require the 3 second rule to activate; setting the output to a value will automatically activate the function	N/A	N/A
	0 - 5	Idle (Default)	Default value used as return point to activate all control functions, Only works for DMX 0.	N/A	N/A
	6 - 10	Full Luminaire ReCal	Also used to wake the fixture up from shutdown. Recalibrates all mechanical functions and sensor within the fixture	N/A	N/A
	11 - 15	Fixture Shutdown	Shuts down all fixture output and turns off all fans - fixture is activated by power cycle or ReCal command	Starts normally	N/A
	16 - 20	Reserved Values		N/A	N/A
	21 - 25	Display - Menu ON	Switches UI display backlight on remotely - Display will Time out from on after 5 mins	N/A	N/A
	26 - 30	Display - Menu OFF		N/A	N/A
	31 - 35	Tungsten Dimming On**	Remote switches Tungsten Dimming color shift on	Holds setting	Yes
	36 - 40	Tungsten Dimming Off (Default)**	Remote switches Tungsten Dimming color shift off	Holds setting	Yes
	41 - 45	Dimming Curve Linear**	Selects Linear Dimming Curve Also used to wake the fixture up from shutdown.	Holds setting	Yes
	46 - 50	Dimming Curve S-Curve**	Selects S-Law Dimming Curve	Holds setting	Yes
	51 - 55	Dimming Curve Square Curve (Default)**	Selects Square -Law Dimming Curve	Holds setting	Yes
	56 - 60	Reserved Values			
	61 - 65	Dimmer Snap On**	Allows for fastest output changes between levels but reduces smoothness dimming LED	Holds setting	Yes
	66 - 70	Dimmer Snap Off (Default)**	Ensures all fades between output levels remain smooth and flicker free limits fast instant snaps between levels	Holds setting	Yes
	71 - 790	Reserved Values		N/A	N/A
	91 - 95	Color Calibration on	Turns Color calibration on for fixture to fixture color matching on all mixed and preset colors between fixtures limits highest output and max saturation on some colors	Holds setting	Yes
	96 - 100	Color Calibration off (Default)	Turns Color calibration off fixtures may not match fixture to fixture offers highest output and deepest saturation of color	Holds setting	Yes
	101 - 150	Reserved Values		N/A	N/A
	151 - 155	Record User Color Preset**	Takes Current Color mixing values and stores to next available blank. User color preset - if the preset listing is full, the preset will not record. The User will first need to clear the presets via the fixture UI.	N/A	N/A
	156 - 160	Cell Flip Off	Cell 1, 2, 3, 3	Holds setting	Yes
	161 - 165	Cell Flip On	Cell 4, 3, 2, 1	Holds setting	Yes
	166 - 170	Reserved		N/A	N/A

**TABLE 9. CONTROL CHANNEL**

DMX CHANNEL	RANGE DMX	ITEMS	DESCRIPTION	POWER CYCLE RULES	FUNCTION SELECTION VIA UI
	171 - 175	Reset fixture to default	Will reset all parameters to default with the exception of the DMX address fixture mode and Pixel / Zone selection	N/A	Yes - Will reset DMX address
	176 - 255	Reserved		N/A	N/A

## DMX512 CONNECTION

- The DMX cable should be terminated at the last unit in a run, using a DMX terminator. Solder a 120Ω 1/4W resistor between pin 2(DMX-) and pin 3(DMX+) into a 5-pin XLR-plug and plug it in the DMX-output of the last unit.
- Connect the unit together in a `daisy chain` by XLR plug from the output of the unit to the input of the next unit. The cable cannot be branched or split to a `Y` cable. DMX 512 is a very high-speed signal. Inadequate or damaged cables, soldered joints or corroded connectors can easily distort the signal and shut down the system.
- The DMX output and input are configured as pass-through connectors in order to maintain the DMX circuit, should the power to one of the unit's be disconnected.
- Each lighting unit needs to have an address set to receive the data sent by the controller. The address number is between 1 - 512 (but not all starting addresses are available depending on DMX Mode).
- 5-pin XLR: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+), Pin 4/Pin 5: Not used.



# APPENDIX A

# CARE AND MAINTENANCE

## TROUBLESHOOTING

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The following are some common issues that may occur.

### **The unit does not work - light and fan do not turn on**

- Check power connection and main fuse.
- Measure the mains voltage on the main connector to ensure it is in the correct range.

### **Not responding to DMX controller**

- DMX LED should be on. If not, check DMX connectors and cables to see if they link properly.
- If the DMX LED is on and no response to the channel, check the address settings and DMX polarity.
- If there are intermittent DMX signal problems, check the pins on the connectors or on the PCB of either this unit or the previous one.
- Try to use another DMX controller.
- Check if the DMX cables run near or run alongside to high voltage cables that may cause damage or interference to the DMX interface circuit.

## CLEANING

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Cleaning the inside of the luminaire must be carried out periodically in order to optimize the light output. Cleaning frequency depends on the environment in which the fixture operates damp, smoky or particularly dirty surrounding can cause greater accumulation of dirt on the fixture's optics.

- Clean with a soft cloth using non-ammonia glass cleaning fluid.
- Always dry the parts carefully.
- Clean the external optics at least every 30 days.



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