



RGBW 3x4 Brick & 10x4 Batten



USER MANUAL

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1. INTRODUCTION

PRODUCT OVERVIEW

These fixtures are linear LED fixtures with high-intensity RGBW single-chip Cree® LEDs grouped into multiple independent pixels. In-lens color mixing prevents multicolor shadows. Advanced fixture electronics deliver flicker-free output with smooth 16-bit dimming.

- In-lens color mixing.
- Multiple control modes including parametric modes with effects, whole fixture control, and pixel control.
- Flicker-free output with smooth 16-bit dimming.
- 16-bit DMX512 control.

WHAT IS INCLUDED

- 1x Solaris LED RGBW 10x4 or 3x4 fixture w/ heavy duty trunnions
- 1x Power cable
- 1x User manual

AVAILABLE OPTIONS

- Partial frost strips
- Heavy-duty bar yoke (Batten and Half-Batten only)
- Lenses: 16°, 22°, 36°, 47°

UNPACKING INSTRUCTIONS

Upon receipt of the fixture, carefully unpack the carton and check the contents to ensure that all parts are present and in good condition. Notify the shipper immediately and retain packing material for inspection if any parts appear to be damaged from shipping or if the carton itself shows signs of mishandling. Save the carton and all packing materials. In the event that a fixture must be returned to the factory, it is important that the fixture be returned in the original factory box and packing.

POWER REQUIREMENTS

Before powering the unit, make sure the line voltage is within the range of accepted voltages. This fixture accommodates 100-240VAC, 50/60Hz. All fixtures must be powered directly from a switched circuit and cannot be operated with a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel is used solely as a 0-100% switch.

When powered up, Solaris LED performs a preprogrammed internal test. On initial power-up the factory default DMX address appears on the display screen and Solaris LED is ready for operation. After initial power-up, the last-saved DMX address will appear.

FREQUENCY SETTING

Depending on location, change the Default Frequency setting to match the mains power (e.g., US and Canada should be set at 60Hz). Proper frequency setting will ensure minimum amount of visible artifacts when using Solaris LED on camera.

SAFETY INSTRUCTIONS



Please read these instructions carefully. This user guide contains important information about the installation, usage and maintenance of this fixture.

- Please keep this Operation Manual for future reference. If unit is sold to another user, make sure they also receive this instruction booklet.
- Ensure fixture is connected to proper voltage, and that line voltage is not higher than that stated on the fixture.
- Make sure there are no flammable materials close to the unit while operating.
- Always disconnect from the power source before servicing or fuse replacement. Always use the fuse specified in this manual.
- Always use a safety cable when hanging fixture overhead.
- Maximum ambient temperature (Ta) is 40°C (104°F). Do not operate fixture at temperatures above this rating.
- In the event of a serious operating problem, stop using the unit immediately. Repairs must be carried out by trained, authorized personnel. Contact the nearest authorized technical assistance center. Only OEM spare parts should be used.
- Do not connect the device to a dimmer pack.
- Make sure power cord is never crimped or damaged.
- Never disconnect power cord by pulling or tugging on the cord.
- Avoid direct eye exposure to the light source during operation.

Caution! There are no user serviceable parts inside the unit. Do not open the housing or attempt any repairs yourself. In the unlikely event your unit may require service, please contact your distributor.

2. SETUP



Disconnect the power cord before replacing the fuse. Always replace with the correct fuse type.



FUSE REPLACEMENT

Solaris LEDs use a 6A (10x4) and 4A (3x4) 250V slow-blow fuse. To replace fuse:

1. With a screwdriver turn the fuse cap counter-clockwise to remove fuse cap with fuse.
2. Replace fuse attached to fuse cap.
3. Reinsert fuse cap with new fuse and tighten clockwise.

Fixture Linking

A DMX data link is needed to operate one or more fixtures via a DMX-512 lighting console. The combined number of channels required by all the fixtures on a DMX data link determines the number of fixtures the DMX data link can support.

Important: Fixtures on a DMX data link must be daisy-chained in one single line. To comply with the EIA-485 standard, no more than 32 devices should be connected on one data link. Connecting more than 32 fixtures on one serial data link without the use of a DMX optically-isolated splitter may result in deterioration of the digital DMX signal.

Maximum recommended DMX data link distance between fixtures: 984 ft. (300 meters).

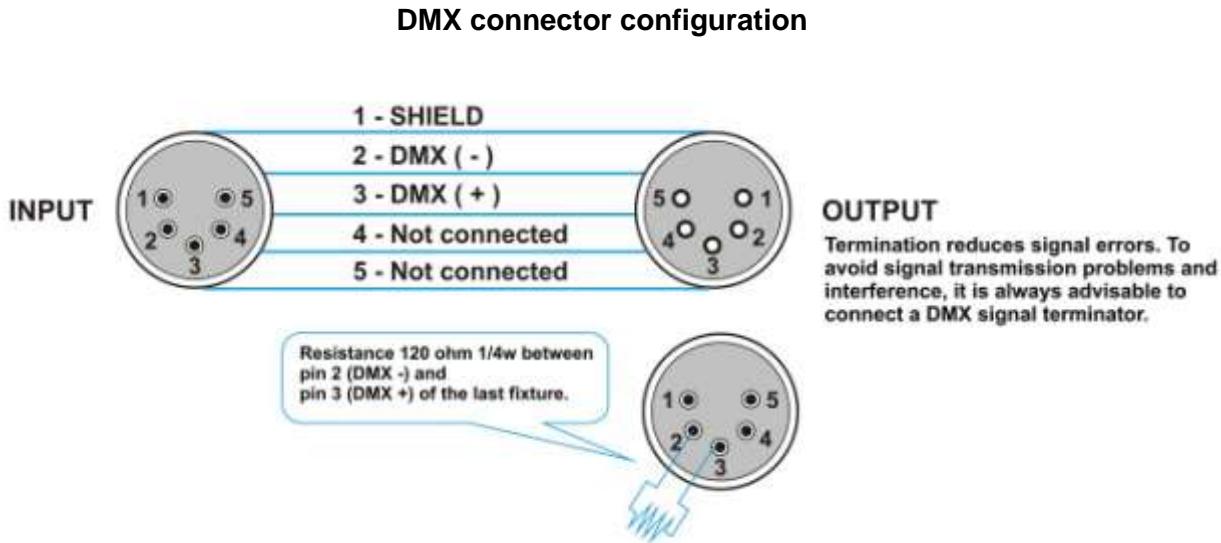
DMX DATA CABLE

Use a ProPlex® DMX cable or equivalent which meets the specifications for EIA RS-485 applications. Standard microphone cables cannot transmit DMX data reliably over long distances. The data cable must have the following characteristics:

- 2-conductor twisted pair plus a shield
- Max. capacitance between conductors – 30 pF/ft.
- Max. capacitance between conductor and shield – 55 pF/ft.
- Max. resistance of 20 ohms / 1000 ft.
- Nominal impedance 100-140 ohms

CABLE / CONNECTORS

Cabling must have a male XLR connector on one end and a female XLR connector on the other end.



CAUTION: Do not allow contact between the common and the fixture's chassis ground. Grounding the common can cause a ground loop, and your fixture may perform erratically. Test cables with an ohm meter to verify correct polarity and to make sure the pins are not grounded or shorted to the shield or each other.

3-PIN TO 5-PIN CONVERSION CHART

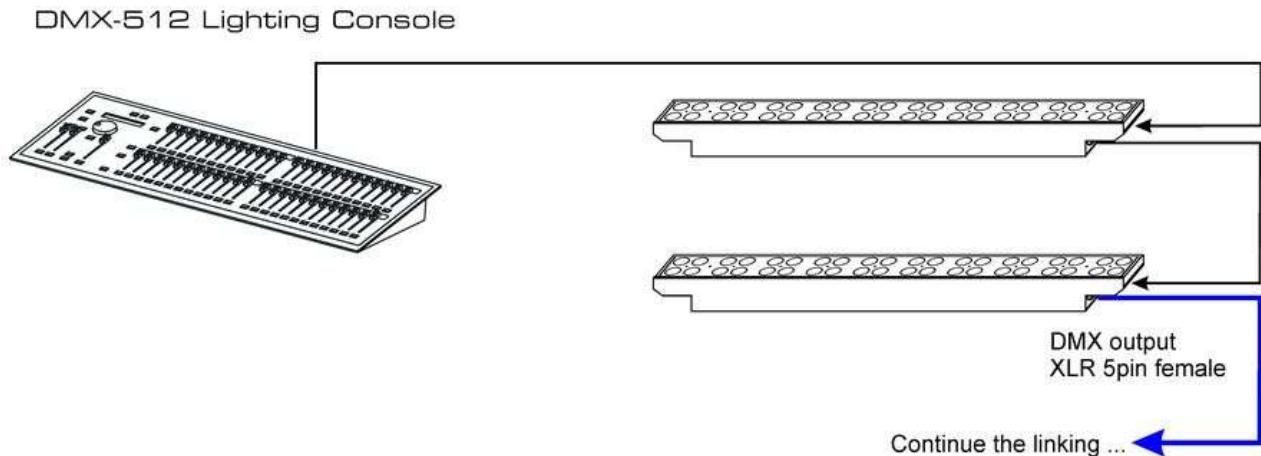
If using a console with a 3-pin DMX output connector, a 3-pin to 5-pin adapter is needed. The chart below details a proper cable conversion:

3-PIN TO 5-PIN CONVERSION CHART

Conductor	3 Pin Female (output)	5 Pin Male (Input)
Ground / Shield	Pin 1	Pin 1
Data (-) signal	Pin 2	Pin 2
Data (+) signal	Pin 3	Pin 3
Do not use		Do not use
Do not use		Do not use

SETTING UP A DMX SERIAL DATA LINK

- 1) Connect the male 5-pin XLR connector of the data cable to the female 5-pin XLR output of the DMX console. Connect the other end of the data cable (female 5-pin XLR) to the male 5-pin XLR connector located on the Solaris LED.
- 2) Connect from the fixture output as stated above to the input of the following fixture, and so forth.
- 3) Continue linking until the last fixture is connected in your DMX signal data chain.



IMPORTANT: In the AutoLink control modes, if the first fixture in chain is set to work in AutoLink 1 or 2 mode, it will take a priority over all subsequent fixtures in the chain. Note! In this case communication between fixtures is done using a proprietary protocol, other DMX devices in the chain after the first Solaris LED fixture will not run properly. Powering off one of the fixtures in data chain, will result in a loss of signal for the remainder of the chain. When using an AutoLink mode, do not connect any other type of fixtures in your Solaris LED fixture data link.

Fixture Mounting/Rigging

Orientation

Solaris LED fixtures may be mounted in any position. Always make sure there is adequate room for ventilation. Do not obstruct unit's fan or vents.

Support Stand

Always use a professional stand rated to support weight greater than the Solaris LED weight (see specifications). Attach a TVMP spigot to the yoke of the Solaris LED and mount on the stand.

Rigging – Always consult a qualified, certified rigging engineer before suspending any fixture overhead.

Use ProBurger® couplers or equivalent C- or O-type clamps for attaching to truss. Do not obstruct vents. Adjust the fixture angle by loosening both knobs and tilting the fixture as needed. After establishing the desired position, retighten both knobs.

- Always use safety cables!
- When selecting installation location, consider routine maintenance.
- Never mount fixture where it will be exposed to moisture, high humidity, extreme temperatures, or restricted ventilation.



3. OPERATING INSTRUCTIONS

CONTROL PANEL NAVIGATION

Access control panel functions via four control panel buttons surrounding the LCD display. Buttons are indicated by a concentric circle.



The Control Panel LCD Display shows the menu items selected from the menu map (see page 9). When a menu function is selected, the display will show the first available option for the selected menu function. To select a menu item, press <**MENU**>.

Press and hold the <**MENU**> button to scroll through the top level menu items. Use the <**UP**> and <**DOWN**> buttons, located to the right of the LCD screen, to navigate the menu map and menu options. Press the <**MENU**> button to access the menu function currently displayed or to enable a menu option. To return to the top of the menu map or menu without changing the value, press the <**X**> button.

Main Menu Functions:

DMX Address – DMX address selection

Control – Control mode selection menu

Manual – Manual Control

Demo – Demonstration scenes

Config – Configuration Menu

During normal operation, the Control Panel LED Display indicates DMX start address. When the DMX signal is not connected, or if the Solaris LED is not receiving a DMX signal, the address blinks RED.

MENU MAP – SOLARIS LED LINEAR RGBW 10x4

Back- Enter			
Level 1	Level 2	Level 3	Notes
DMX Address			Set the DMX start address
Control			Set Fixture operating mode
	Basic		Simple control as RGB or RGBW wash fixture
		RGB 1pix	RGB 1 pixel 8-bit control mode
		RGBW 1pix	RGBW 1 pixel 8-bit control mode
		RGB 1pix 16bit	RGB 1 pixel 16-bit control mode
		RGBW 1pix 16bit	RGBW 1 pixel 16-bit control mode
		RGB 2pix	RGB 2 pixel 8-bit control mode
		RGBW 2pix	RGBW 2 pixel 8-bit control mode
		RGB 2pix 16bit	RGB 2 pixel 16-bit control mode
		RGBW 2pix 16bit	RGBW 2 pixel 16-bit control mode
		RGB 5pix	RGB 5 pixel 8-bit control mode
		RGBW 5pix	RGBW 5 pixel 8-bit control mode
		RGB 5pix 16bit	RGB 5 pixel 16-bit control mode
		RGBW 5pix 16bit	RGBW 5 pixel 16-bit control mode
		RGB 10pix	RGB 10 pixel 8-bit control mode
		RGBW 10pix	RGBW 10 pixel 8-bit control mode
		RGB 10pix 16bit	RGB 10 pixel 16-bit control mode
		RGBW 10pix 16bit	RGBW 10 pixel 16-bit control mode
		AutoLink mode 1	Parametric control mode 1
		AutoLink mode 2	Parametric control mode 2
	Advanced		Control all fixtures as strobe and wash light with pixels at the same time
		Strobe + RGB 1pix	Strobe + RGB 1 pixel 8-bit mode
		Strobe + RGBW 1pix	Strobe + RGBW 1 pixel 8-bit mode
		Strobe + RGB 2pix	Strobe + RGB 2 pixel 8-bit mode
		Strobe + RGBW 2pix	Strobe + RGBW 2 pixel 8-bit mode
		Strobe + RGB 5pix	Strobe + RGB 5 pixel 8-bit mode
		Strobe + RGBW 5pix	Strobe + RGBW 5 pixel 8-bit mode
		Strobe + RGB 10 pix	Strobe + RGB 10 pixel 8-bit mode
		Strobe + RGBW 10pix	Strobe + RGBW 10 pixel 8-bit mode
Manual			Manual control for stand-alone operation
	RED	0-255	Red intensity
	GREEN	0-255	Green intensity
	BLUE	0-255	Blue intensity
	WHITE	0-255	White intensity
Demo			Will activate preprogrammed self-test
	Demo 1		Red color test

Demo 2		Green color test
Demo 3		Blue color test
Demo 4		White color test
Demo 5		Yellow color test
Demo 6		Cyan color test
Demo 7		Pink color test
Demo 8		White color test
Demo 9		Color Amplitude Modulation soft transition test
Demo 10		Color Amplitude Modulation sharp transition test
Demo 11		Color + Intensity Amplitude Modulation test
Demo 12		Color + Intensity Amplitude Modulation test
Demo 13		White Intensity Amplitude Modulation test
Demo 14		Red color strobe test
Demo 15		Green color strobe test
Demo 16		Blue color strobe test
Demo 17		White color strobe test
Demo 18		Red flash delay test
Demo 19		Green flash delay test
Demo 20		Blue flash delay test
Auto		Automatic selection of all tests 1- 20
Config		
DMX Loss		Desired function should Solaris LED lose DMX signal
	OFF	Do not hold the last-received DMX values, stop light output.
	ON	Hold the last-received DMX values when DMX signal is lost.
Fan		This function offers to limit the cooling fan operation.
	OFF	Fan off
	ON	Fan on
Display		Display backlight control
	ON	Backlight on all the time
	10s	Backlight will turn off after 10 seconds
	30s	Backlight will turn off after 30 seconds
Fade Time		Fade time setup. Set the way the Solaris LED reacts to change of DMX values. Designed to allow the light output to react as smoothly as possible when crossfading DMX values.
	OFF	Solaris LED will not change the smoothness of crossfading of values coming from the lighting control.
	SmartFade	To add smoothness to slow crossfading DMX values coming from the lighting controller, but will also allow for very quick changing of values where smoothness is not applicable.
	Fixed fade	Fade time for any change in DMX values can be set manually. Timing values can be set between 0.00 and 2.50 seconds.

DONW - UP

Gamma		
Gamma	Gamma 8	Gamma correction for 8-bit parameter width
	Gamma 16	Gamma correction for 16-bit parameter width
Async Strobe		In Advanced control modes where there are Strobe controls, when set to ON, a change in strobe intensity will one-shot the strobe and/or effect when strobe rate is set at 0.
	OFF	
Thermometer		Display internal temperature
		Line Frequency. Setting depends on the country you are using the Solaris LED in and power provided.
Line Freq.	50 Hz	
	60 Hz	
Upload	Password	If fixture has newer firmware, it can update other Solaris LED fixtures connected to DMX output. Password: 111. <i>Warning: Do not use splitters or any other devices, or disconnect power while updating. This can permanently damage the fixtures.</i>
Reset		Reset fixture to factory defaults
Reset	NO	
	YES	

DMX CONTROL MODES SUMMARY – 10x4

BASIC CONTROL MODES

- **RGB Xpix** – RGB control mode, use fixture as 1, 2, 5, or 10 independent pixels. 8 or 16 bit parameter width.
- **RGBW Xpix** – RGBW control mode, use fixture as 1, 2, 5, or 10 independent pixels. 8 or 16 bit parameter width.
- **AutoLink mode 1** – Parametric control mode with various scene, color mixing and effects possibilities, 20 channels per link (link can contain various count of units). Link can contain 2-255 pixel-long fixture chain without repeated segments. One link occupies only 20 DMX channels regardless of fixture count. AutoLink mode 1 uses 8 bit parameter width.
- **AutoLink mode 2** – Second parametric control mode, includes black level control. 17 channels per link (link can contain various numbers of units). Link can contain 2-255 pixel-long fixture chain without repeated segments. One link occupies only 20 DMX channels regardless of fixture count. AutoLink mode 2 uses 8 bit parameter width.

ADVANCED CONTROL MODES

- **Strobe + RGB Xpix** – RGB strobe + RGB pixel control mode. Use fixture as RGB strobe and 1, 2, 5, or 10 independent RGB pixels at the same time. 8 bit parameter width.
- **Strobe + RGBW Xpix** - RGBW strobe + RGBW pixel control mode. Use fixture as RGBW strobe and 1, 2, 5, or 10 independent RGBW pixels at the same time. 8 bit parameter width.

RGB XPIX DMX CHANNELS – 10x4

PIXEL MODE	CHANNEL	DMX VALUE	PERCENT	FUNCTION
RGB 1pix	1	0 - 255	0 - 100	1 pix Red intensity
	2	0 - 255	0 - 100	1 pix Green intensity
	3	0 - 255	0 - 100	1 pix Blue intensity
RGB 2pix	4	0 - 255	0 - 100	2 pix Red intensity
	5	0 - 255	0 - 100	2 pix Green intensity
	6	0 - 255	0 - 100	2 pix Blue intensity
RGB 5 pix	7	0 - 255	0 - 100	3 pix Red intensity
	8	0 - 255	0 - 100	3 pix Green intensity
	9	0 - 255	0 - 100	3 pix Blue intensity
	10	0 - 255	0 - 100	4 pix Red intensity
	11	0 - 255	0 - 100	4 pix Green intensity
	12	0 - 255	0 - 100	4 pix Blue intensity
RGB 10 pix	13	0 - 255	0 - 100	5 pix Red intensity
	14	0 - 255	0 - 100	5 pix Green intensity
	15	0 - 255	0 - 100	5 pix Blue intensity
	16	0 - 255	0 - 100	6 pix Red intensity
	17	0 - 255	0 - 100	6 pix Green intensity
	18	0 - 255	0 - 100	6 pix Blue intensity
	19	0 - 255	0 - 100	7 pix Red intensity
	20	0 - 255	0 - 100	7 pix Green intensity
	21	0 - 255	0 - 100	7 pix Blue intensity
	22	0 - 255	0 - 100	8 pix Red intensity
	23	0 - 255	0 - 100	8 pix Green intensity
	24	0 - 255	0 - 100	8 pix Blue intensity
	25	0 - 255	0 - 100	9 pix Red intensity
	26	0 - 255	0 - 100	9 pix Green intensity
	27	0 - 255	0 - 100	9 pix Blue intensity
	28	0 - 255	0 - 100	10 pix Red intensity
	29	0 - 255	0 - 100	10 pix Green intensity
	30	0 - 255	0 - 100	10 pix Blue intensity

RGB XPIX 16BIT DMX CHANNELS – 10x4

PIXEL MODE	CHANNEL	DMX VALUE	PERCENT	FUNCTION
RGB 1pix 16bit	1	0 - 255	0 - 100	1 pix Red intensity HIGH Byte
	2	0 - 255	0 - 100	1 pix Red intensity LOW Byte
	3	0 - 255	0 - 100	1 pix Green intensity HIGH Byte
	4	0 - 255	0 - 100	1 pix Green intensity LOW Byte
	5	0 - 255	0 - 100	1 pix Blue intensity HIGH Byte
	6	0 - 255	0 - 100	1 pix Blue intensity LOW Byte
RGB 2pix 16bit	7	0 - 255	0 - 100	2 pix Red intensity HIGH Byte
	8	0 - 255	0 - 100	2 pix Red intensity LOW Byte
	9	0 - 255	0 - 100	2 pix Green intensity HIGH Byte
	10	0 - 255	0 - 100	2 pix Green intensity LOW Byte
	11	0 - 255	0 - 100	2 pix Blue intensity HIGH Byte
	12	0 - 255	0 - 100	2 pix Blue intensity LOW Byte
RGB 5pix 16bit	13	0 - 255	0 - 100	3 pix Red intensity HIGH Byte
	14	0 - 255	0 - 100	3 pix Red intensity LOW Byte
	15	0 - 255	0 - 100	3 pix Green intensity HIGH Byte

	16	0 - 255	0 - 100	3 pix Green intensity LOW Byte
	17	0 - 255	0 - 100	3 pix Blue intensity HIGH Byte
	18	0 - 255	0 - 100	3 pix Blue intensity LOW Byte
	19	0 - 255	0 - 100	4 pix Red intensity HIGH Byte
	20	0 - 255	0 - 100	4 pix Red intensity LOW Byte
	21	0 - 255	0 - 100	4 pix Green intensity HIGH Byte
	22	0 - 255	0 - 100	4 pix Green intensity LOW Byte
	23	0 - 255	0 - 100	4 pix Blue intensity HIGH Byte
	24	0 - 255	0 - 100	4 pix Blue intensity LOW Byte
RGB 10pix 16bit	25	0 - 255	0 - 100	5 pix Red intensity HIGH Byte
	26	0 - 255	0 - 100	5 pix Red intensity LOW Byte
	27	0 - 255	0 - 100	5 pix Green intensity HIGH Byte
	28	0 - 255	0 - 100	5 pix Green intensity LOW Byte
	29	0 - 255	0 - 100	5 pix Blue intensity HIGH Byte
	30	0 - 255	0 - 100	5 pix Blue intensity LOW Byte
	31	0 - 255	0 - 100	6 pix Red intensity HIGH Byte
	32	0 - 255	0 - 100	6 pix Red intensity LOW Byte
	33	0 - 255	0 - 100	6 pix Green intensity HIGH Byte
	34	0 - 255	0 - 100	6 pix Green intensity LOW Byte
	35	0 - 255	0 - 100	6 pix Blue intensity HIGH Byte
	36	0 - 255	0 - 100	6 pix Blue intensity LOW Byte
	37	0 - 255	0 - 100	7 pix Red intensity HIGH Byte
	38	0 - 255	0 - 100	7 pix Red intensity LOW Byte
	39	0 - 255	0 - 100	7 pix Green intensity HIGH Byte
	40	0 - 255	0 - 100	7 pix Green intensity LOW Byte
	41	0 - 255	0 - 100	7 pix Blue intensity HIGH Byte
	42	0 - 255	0 - 100	7 pix Blue intensity LOW Byte
	43	0 - 255	0 - 100	8 pix Red intensity HIGH Byte
	44	0 - 255	0 - 100	8 pix Red intensity LOW Byte
	45	0 - 255	0 - 100	8 pix Green intensity HIGH Byte
	46	0 - 255	0 - 100	8 pix Green intensity LOW Byte
	47	0 - 255	0 - 100	8 pix Blue intensity HIGH Byte
	48	0 - 255	0 - 100	8 pix Blue intensity LOW Byte
RGB 10pix 16bit	49	0 - 255	0 - 100	9 pix Red intensity HIGH Byte
	50	0 - 255	0 - 100	9 pix Red intensity LOW Byte
	51	0 - 255	0 - 100	9 pix Green intensity HIGH Byte
	52	0 - 255	0 - 100	9 pix Green intensity LOW Byte
	53	0 - 255	0 - 100	9 pix Blue intensity HIGH Byte
	54	0 - 255	0 - 100	9 pix Blue intensity LOW Byte
	55	0 - 255	0 - 100	10 pix Red intensity HIGH Byte
	56	0 - 255	0 - 100	10 pix Red intensity LOW Byte
	57	0 - 255	0 - 100	10 pix Green intensity HIGH Byte
	58	0 - 255	0 - 100	10 pix Green intensity LOW Byte
	59	0 - 255	0 - 100	10 pix Blue intensity HIGH Byte
	60	0 - 255	0 - 100	10 pix Blue intensity LOW Byte

RGBW XPIX DMX CHANNELS – 10x4

PIXEL MODE	CHANNEL	DMX VALUE	PERCENT	FUNCTION
RGBW 1pix	1	0 - 255	0 - 100	1 pix Red intensity
	2	0 - 255	0 - 100	1 pix Green intensity
	3	0 - 255	0 - 100	1 pix Blue intensity
	4	0 - 255	0 - 100	1 pix White intensity
RGBW 2pix	5	0 - 255	0 - 100	2 pix Red intensity
	6	0 - 255	0 - 100	2 pix Green intensity
	7	0 - 255	0 - 100	2 pix Blue intensity
	8	0 - 255	0 - 100	2 pix White intensity
RGBW 5pix	9	0 - 255	0 - 100	3 pix Red intensity
	10	0 - 255	0 - 100	3 pix Green intensity
	11	0 - 255	0 - 100	3 pix Blue intensity
	12	0 - 255	0 - 100	3 pix White intensity
	13	0 - 255	0 - 100	4 pix Red intensity
	14	0 - 255	0 - 100	4 pix Green intensity

	15	0 - 255	0 - 100	4 pix Blue intensity
	16	0 - 255	0 - 100	4 pix White intensity
RGBW 10pix	17	0 - 255	0 - 100	5 pix Red intensity
	18	0 - 255	0 - 100	5 pix Green intensity
	19	0 - 255	0 - 100	5 pix Blue intensity
	20	0 - 255	0 - 100	5 pix White intensity
	21	0 - 255	0 - 100	6 pix Red intensity
	22	0 - 255	0 - 100	6 pix Green intensity
	23	0 - 255	0 - 100	6 pix Blue intensity
	24	0 - 255	0 - 100	6 pix White intensity
	25	0 - 255	0 - 100	7 pix Red intensity
	26	0 - 255	0 - 100	7 pix Green intensity
	27	0 - 255	0 - 100	7 pix Blue intensity
	28	0 - 255	0 - 100	7 pix White intensity
	29	0 - 255	0 - 100	8 pix Red intensity
	30	0 - 255	0 - 100	8 pix Green intensity
RGBW 10pix	31	0 - 255	0 - 100	8 pix Blue intensity
	32	0 - 255	0 - 100	8 pix White intensity
	33	0 - 255	0 - 100	9 pix Red intensity
	34	0 - 255	0 - 100	9 pix Green intensity
	35	0 - 255	0 - 100	9 pix Blue intensity
	36	0 - 255	0 - 100	9 pix White intensity
	37	0 - 255	0 - 100	10 pix Red intensity
	38	0 - 255	0 - 100	10 pix Green intensity
	39	0 - 255	0 - 100	10 pix Blue intensity
	40	0 - 255	0 - 100	10 pix White intensity

RGBW XPIX 16BIT DMX CHANNELS – 10x4

PIXEL MODE	CHANNEL	DMX VALUE	PERCENT	FUNCTION
RGBW 1pix	1	0 - 255	0 - 100	1 pix Red intensity HIGH byte
	2	0 - 255	0 - 100	1 pix Red intensity LOW byte
	3	0 - 255	0 - 100	1 pix Green intensity HIGH byte
	4	0 - 255	0 - 100	1 pix Green intensity LOW byte
	5	0 - 255	0 - 100	1 pix Blue intensity HIGH byte
	6	0 - 255	0 - 100	1 pix Blue intensity LOW byte
	7	0 - 255	0 - 100	1 pix White intensity HIGH byte
	8	0 - 255	0 - 100	1 pix White intensity LOW byte
RGBW 2pix	9	0 - 255	0 - 100	2 pix Red intensity HIGH byte
	10	0 - 255	0 - 100	2 pix Red intensity LOW byte
	11	0 - 255	0 - 100	2 pix Green intensity HIGH byte
	12	0 - 255	0 - 100	2 pix Green intensity LOW byte
	13	0 - 255	0 - 100	2 pix Blue intensity HIGH byte
	14	0 - 255	0 - 100	2 pix Blue intensity LOW byte
	15	0 - 255	0 - 100	2 pix White intensity HIGH byte
	16	0 - 255	0 - 100	2 pix White intensity LOW byte
RGBW 5pix	17	0 - 255	0 - 100	3 pix Red intensity HIGH byte
	18	0 - 255	0 - 100	3 pix Red intensity LOW byte
	19	0 - 255	0 - 100	3 pix Green intensity HIGH byte
	20	0 - 255	0 - 100	3 pix Green intensity LOW byte
	21	0 - 255	0 - 100	3 pix Blue intensity HIGH byte
	22	0 - 255	0 - 100	3 pix Blue intensity LOW byte
RGBW 5pix	23	0 - 255	0 - 100	3 pix White intensity HIGH byte
	24	0 - 255	0 - 100	3 pix White intensity LOW byte
	25	0 - 255	0 - 100	4 pix Red intensity HIGH byte

	26	0 - 255	0 - 100	4 pix Red intensity LOW byte
	27	0 - 255	0 - 100	4 pix Green intensity HIGH byte
	28	0 - 255	0 - 100	4 pix Green intensity LOW byte
	29	0 - 255	0 - 100	4 pix Blue intensity HIGH byte
	30	0 - 255	0 - 100	4 pix Blue intensity LOW byte
	31	0 - 255	0 - 100	4 pix White intensity HIGH byte
	32	0 - 255	0 - 100	4 pix White intensity LOW byte
RGBW 10pix	33	0 - 255	0 - 100	5 pix Red intensity HIGH byte
	34	0 - 255	0 - 100	5 pix Red intensity LOW byte
	35	0 - 255	0 - 100	5 pix Green intensity HIGH byte
	36	0 - 255	0 - 100	5 pix Green intensity LOW byte
	37	0 - 255	0 - 100	5 pix Blue intensity HIGH byte
	38	0 - 255	0 - 100	5 pix Blue intensity LOW byte
	39	0 - 255	0 - 100	5 pix White intensity HIGH byte
	40	0 - 255	0 - 100	5 pix White intensity LOW byte
	41	0 - 255	0 - 100	6 pix Red intensity HIGH byte
	42	0 - 255	0 - 100	6 pix Red intensity LOW byte
	43	0 - 255	0 - 100	6 pix Green intensity HIGH byte
	44	0 - 255	0 - 100	6 pix Green intensity LOW byte
	45	0 - 255	0 - 100	6 pix Blue intensity HIGH byte
	46	0 - 255	0 - 100	6 pix Blue intensity LOW byte
	47	0 - 255	0 - 100	6 pix White intensity HIGH byte
	48	0 - 255	0 - 100	6 pix White intensity LOW byte
	49	0 - 255	0 - 100	7 pix Red intensity HIGH byte
	50	0 - 255	0 - 100	7 pix Red intensity LOW byte
	51	0 - 255	0 - 100	7 pix Green intensity HIGH byte
	52	0 - 255	0 - 100	7 pix Green intensity LOW byte
	53	0 - 255	0 - 100	7 pix Blue intensity HIGH byte
	54	0 - 255	0 - 100	7 pix Blue intensity LOW byte
	55	0 - 255	0 - 100	7 pix White intensity HIGH byte
	56	0 - 255	0 - 100	7 pix White intensity LOW byte
	57	0 - 255	0 - 100	8 pix Red intensity HIGH byte
	58	0 - 255	0 - 100	8 pix Red intensity LOW byte
	59	0 - 255	0 - 100	8 pix Green intensity HIGH byte
	60	0 - 255	0 - 100	8 pix Green intensity LOW byte
	61	0 - 255	0 - 100	8 pix Blue intensity HIGH byte
	62	0 - 255	0 - 100	8 pix Blue intensity LOW byte
	63	0 - 255	0 - 100	8 pix White intensity HIGH byte
	64	0 - 255	0 - 100	8 pix White intensity LOW byte
RGBW 10pix	65	0 - 255	0 - 100	9 pix Red intensity HIGH byte
	66	0 - 255	0 - 100	9 pix Red intensity LOW byte
	67	0 - 255	0 - 100	9 pix Green intensity HIGH byte
	68	0 - 255	0 - 100	9 pix Green intensity LOW byte
	69	0 - 255	0 - 100	9 pix Blue intensity HIGH byte
	70	0 - 255	0 - 100	9 pix Blue intensity LOW byte
	71	0 - 255	0 - 100	9 pix White intensity HIGH byte
	72	0 - 255	0 - 100	9 pix White intensity LOW byte
	73	0 - 255	0 - 100	10 pix Red intensity HIGH byte
	74	0 - 255	0 - 100	10 pix Red intensity LOW byte
	75	0 - 255	0 - 100	10 pix Green intensity HIGH byte
	76	0 - 255	0 - 100	10 pix Green intensity LOW byte
	77	0 - 255	0 - 100	10 pix Blue intensity HIGH byte
	78	0 - 255	0 - 100	10 pix Blue intensity LOW byte
	79	0 - 255	0 - 100	10 pix White intensity HIGH byte
	80	0 - 255	0 - 100	10 pix White intensity LOW byte

AUTOLINK MODE 1 – 10x4

Channel	Value	Function	DESCRIPTION	
1	000 ↔ 255	RED intensity 0% - 100%	Background color	
2	000 ↔ 255	GREEN intensity 0% - 100%	Background color	
3	000 ↔ 255	BLUE intensity 0% - 100%	Background color	
4	000 ↔ 255	WHITE intensity 0% - 100%	Background color	
5	000 ↔ 255 000 020 030 050 080 100 120 140 170 200 220 230 255	HUE (when Saturation value is 255) Red Orange Yellow Light green Green Blue – Green Cyan Light Blue Blue Lavender Pink Magenta Red	Effect Color	
6	000 ↔ 255	Saturation 0% - 100%	Effect Color	
7	000 ↔ 255	Intensity (for effects) 0% - 100%	Effect Color	
8	000 ↔ 255	Color Deep	Color Amplitude Modulation	
9	000 ↔ 255 000 001 002 003 005 008 012 019 032 073 154 255	Color Length Full data chain length 9/10 from all data chain length 8/10 from all data chain length 7/10 from all data chain length 6/10 from all data chain length 5/10 from all data chain length 4/10 from all data chain length 3/10 from all data chain length 2/10 from all data chain length 1/10 from all data chain length 1/20 from all data chain length 1/30 from all data chain length	Color Amplitude Modulation	Color effect – modifies selected effect color Hue. If value 80 is selected for effect color Hue (ch. 5) and size (ch. 8) is set to 20, color effect will alternate between Hue 80 and 100. Ch. 10 selects soft or hard transition between colors. It is recommended to begin with this channel at full to better see changes made.
10	000 ↔ 255 000 255	Color Ascent (color transition) Soft color transition 0% Sharp color transition 100%	Color Amplitude Modulation	
11	000 ↔ 255 000 000 ↔ 127 128↔254 255	Color Speed and Direction Color Speed 0% Color Speed from 1% to 100% Color Direction: From start to end Color Speed from 100% to 1% Direction: from end to start Color Speed 0%	Color Amplitude Modulation	
12	000 ↔ 255	Intensity Deep	Intensity Amplitude Modulation	Intensity effect – applied on top of color effect. To get solid color with “black” holes, set background color (ch. 1 thru 4) to 0, set desired effect color (ch. 5 thru 7), color effect size to 0 (ch. 8), and intensity effect size to desired level (ch. 12). Controls work the same way as color effect, but size defines intensity effect size – 100% means alternation between 100% and 0% intensity. It is recommended to begin with transition set to 255 to better see effect size.
13	000 ↔ 255 000 001 002 003 005 008 012 019 032 073 154 255	Intensity Length Full data chain length 9/10 from all data chain length 8/10 from all data chain length 7/10 from all data chain length 6/10 from all data chain length 5/10 from all data chain length 4/10 from all data chain length 3/10 from all data chain length 2/10 from all data chain length 1/10 from all data chain length 1/20 from all data chain length 1/30 from all data chain length	Intensity Amplitude Modulation	
14	000 ↔ 255 000 255	Intensity Ascent (intensity transition) Soft intensity transition Sharp intensity transition	Intensity Amplitude Modulation	

15	000 ↔ 255 000 000 ↔ 127 128↔254 255	Intensity Speed and Direction Intensity Speed 0% Intensity Speed from 1% to 100% Intensity Direction: From start to end Intensity Speed from 100% to 1% Intensity Direction: from end to start Intensity Speed 0%	Intensity Amplitude Modulation	
16	000 ↔ 255 000 001 020 030 050 080 100 120 140 170 200 220 230 255	Flash Color White Red Orange Yellow Light green Green Blue – Green Cyan Light Blue Blue Lavender Pink Magenta Red	Flash Controls	Strobe with color select. Flash delay sets delay between devices in DMX chain – if set to value above 0, each unit will delay its flash by a preset time. Flash Forced is to create a single asynchronous flash, similar to other popular strobes when the intensity channel is raised.
17	000 ↔ 255	Flash Level (flash intensity)	Flash Controls	
18	000 ↔ 255	Flash Speed (flash rate)	Flash Controls	
19	000 ↔ 255 000 000 ↔ 254 255	Flash Delay Flash Delay 0% Flash Delay 1% - 100% Flash Delay 0%	Flash Controls	
20	000 ↔ 255 000 ↔ 127 128 129 ↔ 255	Flash Forced Off Flash 1 time Off	Flash Controls	

AUTOLINK MODE 2 – 10x4

CHANNEL	VALUE	FUNCTION	DESCRIPTION	
1	0 - 255	RED intensity 0% - 100%	Background Red	HTP merged to effects, EXCEPT when channel 12 set to >0.
2	0 - 255	GREEN intensity 0% - 100%	Background Green	
3	0 - 255	BLUE intensity 0% - 100%	Background Blue	
4	0 - 255	White intensity 0% - 100%	Background White	
5	0 - 255	Effect Red		Effect color
6	0 - 255	Effect Green		
7	0 - 255	Effect Blue		
8	0 - 255	Effect White		
9	2 - 255		Pixel distance	Selects effect size (distance) in pixels. Min. length, 2 pixels.
10	1 - 255	1 to distance	Pixel width	Effect pixel filling in percent. For example, if pixel distance set to 10 pixels and width set to 30%, effect width is 3 pixels.
11	0 - 127 127 - 255	0 - max speed, right direction max - 0 speed, left direction	Pixel movement speed and direction control	
12	0 - 255	0 - 100%	Pixel soft (blur)	
13	0 - 255	Black level under effect color		Changes merging of background channels to effect channels. If above zero, background channel intensity is reduced. This is to achieve "clean" colors in effects. For example, if background is set to RED and effect to BLUE, the resulting effect color is MAGENTA because the effect is merged to the background. If this channel is set to 100%, the effect color changes from MAGENTA to BLUE.

14	0 - 255	Pixel inverse point		Changes running order
15	0 - 255	Pixel mirror		Changes running direction at 0% – current direction; 1-50% – addition of reversed direction; 50-99% – removal of current direction; 100% – only reversed direction.
16	0 - 255	Flash rate		At 0 – no strobing; 1-100% – strobing speed.
17	0 - 255	Flash random		At 0 – synchronized strobe; 1-100% – strobe randomization.
18		Reserved		
19		Reserved		
20		Reserved		

STROBE MODES – 10x4 AND 3x4

Four channels control the functions of the strobe parameter: Strobe Intensity, Strobe Duration, Strobe Rate and Strobe FX.

There are a number of effects that also use the strobe rate and duration controls to affect the effect's look. Please experiment to find the right duration and rate for your application.

DMX value	%	Flash intensity
0 - 5	0 - 2	Blackout
6 - 255	3 - 100	Intensity level
Flash duration		
0 - 254	0 - 99	0 - 650 ms (50Hz AC)
255	100	HYPER
Flash rate		
0 - 5	0 - 2	No flash
6 - 255	3 - 100	0.5 - 25Hz (50Hz AC); 0.6 - 30Hz (60Hz AC)
Flash effects		
0 - 4	0 - 2	No effect
5	3	Wash Override (only available in RGB Strobe and RGBW Strobe modes) ¹
6 - 42	4 - 16	Ramp up
43 - 85	17 - 33	Ramp down
86 - 128	34 - 50	Ramp up - down
129 - 171	51 - 67	Random
172 - 214	68 - 84	Lighting
215 - 240	85 - 92	Spikes
241 - 245	93 - 95	Burst (use Rate at full) ²
246 - 250	96 - 98	"Meltdown" Random Pixels w/ Solid Background ³

251 - 255	99 - 100	"Meltdown" Random Pixels w/ Burst Background ⁴
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Notes:

- 1) In RGB Strobe and RGBW Strobe modes, a feature in the Strobe FX channel allows the 10x4 or 3x4 fixtures to become a temporary wash/blinder fixture. If the Strobe FX channel is set to DMX value 5, the Strobe color Channels become strobe wash/blinder color channels.

For example, the fixtures can be strobing in White, and then quickly changed to a Blue Wash fixture.

- a) White strobing: Strobe Color Channels @ DMX 255, Strobing channels as desired.
- b) Blue Wash: Strobe Color channels to Blue-only @ DMX 255, Strobe FX @ DMX 5, the other strobe channels are ignored.

- 2) When Burst is activated, use the rate channel at FULL to access a hyper-speed strobe

- 3) When Meltdown with solid background is active, the Strobe Color determines the random pixel color, and the background color is determined by the pixel colors after the strobe fx channels. There is no background color when in RGB Strobe and RGBW Strobe mode. The background pixels are continuous-on in this mode. The foreground strobe is randomized and not achievable in any other mode, and is difficult to reproduce with most DMX controllers at this rate.

- 4) When Meltdown with Burst background is active, the Strobe Color determines the random pixel color, and the background color is determined by the pixel colors after the strobe fx channels. There is no background color when in RGB Strobe and RGBW Strobe mode. The background pixels run at Burst speed in this mode. The foreground strobe is randomized and not achievable in any other mode, and is difficult to reproduce with most DMX controllers at this rate.

ASYNC STROBO (Found in the CONFIG Menu)

The purpose of this mode is to make quick one-shot effects within the Strobe FX channel much easier.

If the Strobe Rate and Duration channels are at zero, and FX channel is at a value for one of the strobe effects, any change in the strobe intensity channel will cause the Strobe FX effect to one-shot at this intensity value. This feature facilitates firing a single-shot effect, reducing the number of cues by half.

Note: When in this mode, any change to the strobe intensity channel within DMX values 1-255 will cause the fixture to fire a single shot of either an effect or a single strobe at the intensity value you have selected.

STROBE + RGB XPIX – 10x4 AND 3x4

PIXEL MODE	CHANNEL	DMX VALUE	PERCENT	FUNCTION
Strobe + RGB 1pix	1	0 - 255	0 - 100	Strobe Red intensity
	2	0 - 255	0 - 100	Strobe Green intensity
	3	0 - 255	0 - 100	Strobe Blue intensity
	4	0 - 255	0 - 100	Strobe Intensity
	5	0 - 255	0 - 100	Strobe Duration
	6	0 - 255	0 - 100	Strobe Rate
	7	0 - 255	0 - 100	Strobe FX
	8	0 - 255	0 - 100	1 pix Red intensity
	9	0 - 255	0 - 100	1 pix Green intensity
	10	0 - 255	0 - 100	1 pix Blue intensity
	11	0 - 255	0 - 100	2 pix Red intensity

Strobe + RGB 2pix	12	0 - 255	0 - 100	2 pix Green intensity
	13	0 - 255	0 - 100	2 pix Blue intensity
Strobe + RGB 5pix	14	0 - 255	0 - 100	3 pix Red intensity
	15	0 - 255	0 - 100	3 pix Green intensity
	16	0 - 255	0 - 100	3 pix Blue intensity
	17	0 - 255	0 - 100	4 pix Red intensity
	18	0 - 255	0 - 100	4 pix Green intensity
	19	0 - 255	0 - 100	4 pix Blue intensity
Strobe + RGB 5pix	20	0 - 255	0 - 100	5 pix Red intensity
	21	0 - 255	0 - 100	5 pix Green intensity
	22	0 - 255	0 - 100	5 pix Blue intensity
	23	0 - 255	0 - 100	6 pix Red intensity
	24	0 - 255	0 - 100	6 pix Green intensity
	25	0 - 255	0 - 100	6 pix Blue intensity
	26	0 - 255	0 - 100	7 pix Red intensity
	27	0 - 255	0 - 100	7 pix Green intensity
	28	0 - 255	0 - 100	7 pix Blue intensity
	29	0 - 255	0 - 100	8 pix Red intensity
	30	0 - 255	0 - 100	8 pix Green intensity
	31	0 - 255	0 - 100	8 pix Blue intensity
Strobe + RGB 10pix	32	0 - 255	0 - 100	9 pix Red intensity
	33	0 - 255	0 - 100	9 pix Green intensity
	34	0 - 255	0 - 100	9 pix Blue intensity
	35	0 - 255	0 - 100	10 pix Red intensity
	36	0 - 255	0 - 100	10 pix Green intensity
	37	0 - 255	0 - 100	10 pix Blue intensity

STROBE + RGBW XPIX – 10x4 AND 3x4

PIXEL MODE	CHANNEL	DMX VALUE	PERCENT	FUNCTION
Strobe + RGBW 1pix	1	0 - 255	0 - 100	Strobe Red intensity
	2	0 - 255	0 - 100	Strobe Green intensity
	3	0 - 255	0 - 100	Strobe Blue intensity
	4	0 - 255	0 - 100	Strobe White intensity
	5	0 - 255	0 - 100	Strobe Intensity
	6	0 - 255	0 - 100	Strobe Duration
	7	0 - 255	0 - 100	Strobe Rate
	8	0 - 255	0 - 100	Strobe FX
	9	0 - 255	0 - 100	1 pix Red intensity
	10	0 - 255	0 - 100	1 pix Green intensity
	11	0 - 255	0 - 100	1 pix Blue intensity
	12	0 - 255	0 - 100	1 pix White intensity
Strobe + RGBW 2pix	13	0 - 255	0 - 100	2 pix Red intensity
	14	0 - 255	0 - 100	2 pix Green intensity
	15	0 - 255	0 - 100	2 pix Blue intensity
	16	0 - 255	0 - 100	2 pix White intensity
Strobe + RGBW 5pix	17	0 - 255	0 - 100	3 pix Red intensity
	18	0 - 255	0 - 100	3 pix Green intensity
	19	0 - 255	0 - 100	3 pix Blue intensity
	20	0 - 255	0 - 100	3 pix White intensity
	21	0 - 255	0 - 100	4 pix Red intensity
	22	0 - 255	0 - 100	4 pix Green intensity
	23	0 - 255	0 - 100	4 pix Blue intensity
	24	0 - 255	0 - 100	4 pix White intensity
	25	0 - 255	0 - 100	5 pix Red intensity

Strobe + RGBW 10pix	26	0 - 255	0 - 100	5 pix Green intensity
	27	0 - 255	0 - 100	5 pix Blue intensity
	28	0 - 255	0 - 100	5 pix White intensity
	29	0 - 255	0 - 100	6 pix Red intensity
	30	0 - 255	0 - 100	6 pix Green intensity
	31	0 - 255	0 - 100	6 pix Blue intensity
	32	0 - 255	0 - 100	6 pix White intensity
	33	0 - 255	0 - 100	7 pix Red intensity
	34	0 - 255	0 - 100	7 pix Green intensity
	35	0 - 255	0 - 100	7 pix Blue intensity
	36	0 - 255	0 - 100	7 pix White intensity
	37	0 - 255	0 - 100	8 pix Red intensity
	38	0 - 255	0 - 100	8 pix Green intensity
	39	0 - 255	0 - 100	8 pix Blue intensity
	40	0 - 255	0 - 100	8 pix White intensity
Strobe + RGBW 10pix	41	0 - 255	0 - 100	9 pix Red intensity
	42	0 - 255	0 - 100	9 pix Green intensity
	43	0 - 255	0 - 100	9 pix Blue intensity
	44	0 - 255	0 - 100	9 pix White intensity
	45	0 - 255	0 - 100	10 pix Red intensity
	46	0 - 255	0 - 100	10 pix Green intensity
	47	0 - 255	0 - 100	10 pix Blue intensity
	48	0 - 255	0 - 100	10 pix White intensity

MENU MAP – SOLARIS LED LINEAR RGBW 3x4

Back- Enter

Level 1	Level 2	Level 3	Notes
DMX Address			Set the DMX start address
Control			Set Fixture operating mode
Basic	Basic		Simple control as RGB or RGBW wash fixture
		RGB 1pix	RGB 1 pixel 8-bit control mode
		RGBW 1pix	RGBW 1 pixel 8-bit control mode
		RGB 1pix 16bit	RGB 1 pixel 16-bit control mode
		RGBW 1pix 16bit	RGBW 1 pixel 16-bit control mode
		RGB 3pix	RGB 3 pixel 8-bit control mode
		RGBW 3pix	RGBW 3 pixel 8-bit control mode
		RGB 3pix 16bit	RGB 3 pixel 16-bit control mode
		RGBW 3pix 16bit	RGBW 3 pixel 16-bit control mode
		AutoLink mode 1	Parametric control mode 1
	Advanced	AutoLink mode 2	Parametric control mode 2
			Control all fixture as strobe and wash light with pixels at the same time
		Strobe + RGB 1pix	Strobe + RGB 1 pixel 8-bit mode
		Strobe + RGBW 1pix	Strobe + RGBW 1 pixel 8-bit mode
		Strobe + RGB 3pix	Strobe + RGB 3 pixel 8-bit mode
		Strobe + RGBW 3pix	Strobe + RGBW 3 pixel 8-bit mode
Manual			Manual control for standalone operation
	RED	0-255	Red intensity
	GREEN	0-255	Green intensity
	BLUE	0-255	Blue intensity

	WHITE	0-255	White intensity
Demo			Will activate pre-programmed self-test.
	Demo 1		Red color test
	Demo 2		Green color test
	Demo 3		Blue color test
	Demo 4		White color test
	Demo 5		Yellow color test
	Demo 6		Cyan color test
	Demo 7		Pink color test
	Demo 8		White color test
	Demo 9		Color Amplitude Modulation soft transition test
	Demo 10		Color Amplitude Modulation sharp transition test
	Demo 11		Color + Intensity Amplitude Modulation test
	Demo 12		Color + Intensity Amplitude Modulation test
	Demo 13		White Intensity Amplitude Modulation test
	Demo 14		Red color strobe test
	Demo 15		Green color strobe test
	Demo 16		Blue color strobe test
	Demo 17		White color strobe test
	Demo 18		Red flash delay test
	Demo 19		Green flash delay test
	Demo 20		Blue flash delay test
	Auto		Automatic selection of all tests 1- 20
Config			
	DMX Loss		Desired function should Solaris LED lose DMX signal
		OFF	Do not hold the last-received DMX values, stop light output.
		ON	Hold the last-received DMX values when DMX signal is lost.
	Fan		This function offers to limit the cooling fan operation.
		OFF	Fan off
		ON	Fan on
	Display		Display backlight control
		ON	Backlight on all the time
		10s	Backlight will turn off after 10 seconds
		30s	Backlight will turn off after 30 seconds
	Fade Time		Fade time setup. In this setup you can set the way the Solaris LED reacts to change of DMX values. This is designed to allow the light output to react as smoothly as possible when crossfading DMX values.
		OFF	Solaris LED will not change the smoothness of crossfading of values coming from the lighting control.



	SmartFade	To add smoothness to slow crossfading DMX values coming from the lighting controller, but will also allow for very quick changing of values where smoothness is not applicable.
	Fixed fade	The fade time for any change in DMX values can be set manually. The timing values can be set between 0.00 and 2.50 seconds.
Gamma	Gamma 8	Gamma correction for 8-bit parameter width
	Gamma 16	Gamma correction for 16-bit parameter width
Async Strobo		In Advanced control modes where there are Strobe controls, when set to ON, a change in strobe intensity will one-shot the strobe and/or effect when strobe rate is set at 0.
Thermometer	OFF	
	ON	
Line Freq.		Display internal temperature
	50 Hz	Line Frequency. Setting depends on the country you are using the Solaris LED in and power provided.
	60 Hz	
Upload	Password	If fixture has newer firmware, it can update other Solaris LED fixtures connected to DMX output. Password: 111. <i>Warning: Do not use splitters or any other devices, or disconnect power while updating. This can permanently damage the fixtures.</i>
Reset	NO	
	YES	Reset fixture to factory defaults

DMX CONTROL MODES SUMMARY – 3x4

BASIC CONTROL MODES

- **RGB Xpix** – RGB control mode, use fixture as 1, or 3 independent pixels. 8 or 16 bit parameter width.
- **RGBW Xpix** – RGBW control mode, use fixture as 1, or 3 independent pixels. 8 or 16 bit parameter width.
- **AutoLink mode 1** – Parametric control mode with various scene, color mixing and effects possibilities, 20 channels per link (link can contain various count of units). Link can contain 2-255 pixel-long fixture chain without repeated segments. One link occupies only 20 DMX channels regardless of fixture count. AutoLink mode 1 uses 8 bit parameter width.
- **AutoLink mode 2** – Second parametric control mode, includes black level control. 17 channels per link (link can contain various numbers of units). Link can contain 2-255 pixel-long fixture chain without repeated

segments. One link occupies only 20 DMX channels regardless of fixture count. AutoLink mode 2 uses 8 bit parameter width.

ADVANCED CONTROL MODES

- **Strobe + RGB Xpix** – RGB strobe + RGB pixel control mode. Use fixture as RGB strobe and 1 or 3 independent RGB pixels at the same time. 8 bit parameter width.
- **Strobe + RGBW Xpix** – RGBW strobe + RGBW pixel control mode. Use fixture as RGBW strobe and 1 or 3 independent RGBW pixels at the same time, 8 bit parameter width.

RGB XPIX DMX CHANNELS – 3x4

PIXEL MODE	CHANNEL	DMX VALUE	PERCENT	FUNCTION
RGB 1pix	1	0 - 255	0 - 100	1 pix Red intensity
	2	0 - 255	0 - 100	1 pix Green intensity
	3	0 - 255	0 - 100	1 pix Blue intensity
RGB 3pix	4	0 - 255	0 - 100	2 pix Red intensity
	5	0 - 255	0 - 100	2 pix Green intensity
	6	0 - 255	0 - 100	2 pix Blue intensity
RGB 3pix	7	0 - 255	0 - 100	3 pix Red intensity
	8	0 - 255	0 - 100	3 pix Green intensity
	9	0 - 255	0 - 100	3 pix Blue intensity

RGB XPIX 16BIT DMX CHANNELS – 3x4

PIXEL MODE	CHANNEL	DMX VALUE	PERCENT	FUNCTION
RGB 1pix 16bit	1	0 - 255	0 - 100	1 pix Red intensity HIGH Byte
	2	0 - 255	0 - 100	1 pix Red intensity LOW Byte
	3	0 - 255	0 - 100	1 pix Green intensity HIGH Byte
	4	0 - 255	0 - 100	1 pix Green intensity LOW Byte
	5	0 - 255	0 - 100	1 pix Blue intensity HIGH Byte
	6	0 - 255	0 - 100	1 pix Blue intensity LOW Byte
RGB 3pix 16bit	7	0 - 255	0 - 100	2 pix Red intensity HIGH Byte
	8	0 - 255	0 - 100	2 pix Red intensity LOW Byte
	9	0 - 255	0 - 100	2 pix Green intensity HIGH Byte
	10	0 - 255	0 - 100	2 pix Green intensity LOW Byte
	11	0 - 255	0 - 100	2 pix Blue intensity HIGH Byte
	12	0 - 255	0 - 100	2 pix Blue intensity LOW Byte
RGB 3pix 16bit	13	0 - 255	0 - 100	3 pix Red intensity HIGH Byte
	14	0 - 255	0 - 100	3 pix Red intensity LOW Byte
	15	0 - 255	0 - 100	3 pix Green intensity HIGH Byte
	16	0 - 255	0 - 100	3 pix Green intensity LOW Byte
	17	0 - 255	0 - 100	3 pix Blue intensity HIGH Byte
	18	0 - 255	0 - 100	3 pix Blue intensity LOW Byte

RGBW XPIX DMX CHANNELS – 3x4

PIXEL MODE	CHANNEL	DMX VALUE	PERCENT	FUNCTION
RGBW 1pix	1	0 - 255	0 - 100	1 pix Red intensity
	2	0 - 255	0 - 100	1 pix Green intensity
	3	0 - 255	0 - 100	1 pix Blue intensity

	4	0 - 255	0 - 100	1 pix White intensity
RGBW 3pix	5	0 - 255	0 - 100	2 pix Red intensity
	6	0 - 255	0 - 100	2 pix Green intensity
	7	0 - 255	0 - 100	2 pix Blue intensity
	8	0 - 255	0 - 100	2 pix White intensity
	9	0 - 255	0 - 100	3 pix Red intensity
RGBW 3pix	10	0 - 255	0 - 100	3 pix Green intensity
	11	0 - 255	0 - 100	3 pix Blue intensity
	12	0 - 255	0 - 100	3 pix White intensity

RGBW XPIX 16BIT DMX CHANNELS – 3x4

PIXEL MODE	CHANNEL	DMX VALUE	PERCENT	FUNCTION
RGBW 1pix	1	0 - 255	0 - 100	1 pix Red intensity HIGH byte
	2	0 - 255	0 - 100	1 pix Red intensity LOW byte
	3	0 - 255	0 - 100	1 pix Green intensity HIGH byte
	4	0 - 255	0 - 100	1 pix Green intensity LOW byte
	5	0 - 255	0 - 100	1 pix Blue intensity HIGH byte
	6	0 - 255	0 - 100	1 pix Blue intensity LOW byte
	7	0 - 255	0 - 100	1 pix White intensity HIGH byte
	8	0 - 255	0 - 100	1 pix White intensity LOW byte
RGBW 3pix	9	0 - 255	0 - 100	2 pix Red intensity HIGH byte
	10	0 - 255	0 - 100	2 pix Red intensity LOW byte
	11	0 - 255	0 - 100	2 pix Green intensity HIGH byte
	12	0 - 255	0 - 100	2 pix Green intensity LOW byte
	13	0 - 255	0 - 100	2 pix Blue intensity HIGH byte
	14	0 - 255	0 - 100	2 pix Blue intensity LOW byte
	15	0 - 255	0 - 100	2 pix White intensity HIGH byte
	16	0 - 255	0 - 100	2 pix White intensity LOW byte
RGBW 3pix	17	0 - 255	0 - 100	3 pix Red intensity HIGH byte
	18	0 - 255	0 - 100	3 pix Red intensity LOW byte
	19	0 - 255	0 - 100	3 pix Green intensity HIGH byte
	20	0 - 255	0 - 100	3 pix Green intensity LOW byte
	21	0 - 255	0 - 100	3 pix Blue intensity HIGH byte
	22	0 - 255	0 - 100	3 pix Blue intensity LOW byte
	23	0 - 255	0 - 100	3 pix White intensity HIGH byte
	24	0 - 255	0 - 100	3 pix White intensity LOW byte

AUTOLINK MODE 1 – 3x4

Channel	Value	Function	DESCRIPTION
1	000 ↔ 255	RED intensity 0% - 100%	Background color
2	000 ↔ 255	GREEN intensity 0% - 100%	Background color
3	000 ↔ 255	BLUE intensity 0% - 100%	Background color
4	000 ↔ 255	WHITE intensity 0% - 100%	Background color

5	000 ↔ 255 000 020 030 050 080 100 120 140 170 200 220 230 255	HUE (when Saturation value is 255) Red Orange Yellow Light green Green Blue – Green Cyan Light Blue Blue Lavender Pink Magenta Red	Effect Color	
6	000 ↔ 255	Saturation 0% - 100%	Effect Color	
7	000 ↔ 255	Intensity (for effects) 0% - 100%	Effect Color	
8	000 ↔ 255	Color Depth	Color Amplitude Modulation	
9	000 ↔ 255 000 001 002 003 005 008 012 019 032 073 154 255	Color Length Full data chain length 9/10 from all data chain length 8/10 from all data chain length 7/10 from all data chain length 6/10 from all data chain length 5/10 from all data chain length 4/10 from all data chain length 3/10 from all data chain length 2/10 from all data chain length 1/10 from all data chain length 1/20 from all data chain length 1/30 from all data chain length	Color Amplitude Modulation	Color effect – modifies selected effect color Hue. If value 80 is selected for effect color Hue (ch. 5) and size (ch. 8) is set to 20, color effect will alternate between Hue 80 and 100. Ch. 10 selects soft or hard transition between colors. It is recommended to begin with this channel at full to better see changes made.
10	000 ↔ 255 000 255	Color Ascent (color transition) Soft color transition 0% Sharp color transition 100%	Color Amplitude Modulation	
11	000 ↔ 255 000 000 ↔ 127 128↔254 255	Color Speed and Direction Color Speed 0% Color Speed from 1% to 100% Color Direction: From start to end Color Speed from 100% to 1% Direction: from end to start Color Speed 0%	Color Amplitude Modulation	
12	000 ↔ 255	Intensity Deep	Intensity Amplitude Modulation	Intensity effect – applied on top of color effect. To get solid color with “black” holes, set background color (ch. 1 thru 4) to 0, set desired effect color (ch. 5 thru 7), color effect size to 0 (ch. 8), and intensity effect size to desired level (ch. 12). Controls work the same way as color effect, but size defines intensity effect size – 100% means alternation between 100% and 0% intensity. It is recommended to begin with transition set to 255 to better see effect size.
13	000 ↔ 255 000 001 002 003 005 008 012 019 032 073 154 255	Intensity Length Full data chain length 9/10 from all data chain length 8/10 from all data chain length 7/10 from all data chain length 6/10 from all data chain length 5/10 from all data chain length 4/10 from all data chain length 3/10 from all data chain length 2/10 from all data chain length 1/10 from all data chain length 1/20 from all data chain length 1/30 from all data chain length	Intensity Amplitude Modulation	
14	000 ↔ 255 000 255	Intensity Ascent (intensity transition) Soft intensity transition Sharp intensity transition	Intensity Amplitude Modulation	
15	000 ↔ 255 000 000 ↔ 127 128↔254 255	Intensity Speed and Direction Intensity Speed 0% Intensity Speed from 1% to 100% Intensity Direction: From start to end Intensity Speed from 100% to 1% Intensity Direction: from end to start Intensity Speed 0%	Intensity Amplitude Modulation	

16	000 ↔ 255 000 001 020 030 050 080 100 120 140 170 200 220 230 255	Flash Color White Red Orange Yellow Light green Green Blue – Green Cyan Light Blue Blue Lavender Pink Magenta Red	Flash Controls	Strobe with color select. Flash delay sets delay between devices in DMX chain – if set to value above 0, each unit will delay its flash by a preset time. Flash Forced is to create a single asynchronous flash, similar to other popular strobes when the intensity channel is raised.
17	000 ↔ 255	Flash Level (flash intensity)	Flash Controls	
18	000 ↔ 255	Flash Speed (flash rate)	Flash Controls	
19	000 ↔ 255 000 000 ↔ 254 255	Flash Delay Flash Delay 0% Flash Delay 1% - 100% Flash Delay 0%	Flash Controls	
20	000 ↔ 255 000 ↔ 127 128 129 ↔ 255	Flash Forced Off Flash 1 time Off	Flash Controls	

AUTOLINK MODE 2 – 3x4

CHANNEL	VALUE	FUNCTION	DESCRIPTION	
1	0 - 255	RED intensity 0% - 100%	Background Red	HTP merged to effects, EXCEPT when channel 12 set to >0
2	0 - 255	GREEN intensity 0% - 100%	Background Green	
3	0 - 255	BLUE intensity 0% - 100%	Background Blue	
4	0 - 255	White intensity 0% - 100%	Background White	
5	0 - 255	Effect Red		Effect color
6	0 - 255	Effect Green		
7	0 - 255	Effect Blue		
8	0 - 255	Effect White		
9	2 - 255		Pixel distance	Selects effect size (distance) in pixels. Min. length – 2 pixels
10	1 - 255	1 to distance	Pixel width	Effect pixel filling in percent. For example, if pixel distance set to 10 pixels and width set to 30%, effect width is 3 pixels.
11	0 - 127 127 - 255	0 - max speed, right direction max - 0 speed, left direction	Pixel movement speed and direction control	
12	0 - 255	0 - 100%	Pixel soft (blur)	
13	0 - 255	Black level under effect color		Changes merging of background channels to effect channels. If above zero, background channel intensity is reduced. This is to achieve “clean” colors in effects. For example, if background is set to RED and effect to BLUE, the resulting effect color is MAGENTA because the effect is merged to the background. If this channel is set to 100%, the effect color changes from MAGENTA to BLUE.
14	0 - 255	Pixel inverse point		Changes running order
15	0 - 255	Pixel mirror		Changes running direction at 0% – current direction; 1-50% – addition of reversed direction; 50-99% – removal of current direction; 100% – only reversed direction.

16	0 - 255	Flash rate		At 0 – no strobing; 1-100% – strobing speed
17	0 - 255	Flash random		At 0 – synchronized strobe; 1-100% – strobe randomization.
18		Reserved		
19		Reserved		
20		Reserved		

STROBE + RGB XPIX – 3x4

PIXEL MODE	CHANNEL	DMX VALUE	PERCENT	FUNCTION
Strobe + RGB 1pix	1	0 - 255	0 - 100	Strobe Red intensity
	2	0 - 255	0 - 100	Strobe Green intensity
	3	0 - 255	0 - 100	Strobe Blue intensity
	4	0 - 255	0 - 100	Strobe Intensity
	5	0 - 255	0 - 100	Strobe Duration
	6	0 - 255	0 - 100	Strobe Rate
	7	0 - 255	0 - 100	Strobe FX
	8	0 - 255	0 - 100	1 pix Red intensity
	9	0 - 255	0 - 100	1 pix Green intensity
	10	0 - 255	0 - 100	1 pix Blue intensity
Strobe + RGB 3pix	11	0 - 255	0 - 100	2 pix Red intensity
	12	0 - 255	0 - 100	2 pix Green intensity
	13	0 - 255	0 - 100	2 pix Blue intensity
	14	0 - 255	0 - 100	3 pix Red intensity
	15	0 - 255	0 - 100	3 pix Green intensity
	16	0 - 255	0 - 100	3 pix Blue intensity

STROBE + RGBW XPIX – 3x4

PIXEL MODE	CHANNEL	DMX VALUE	PERCENT	FUNCTION
Strobe + RGBW 1pix	1	0 - 255	0 - 100	Strobe Red intensity
	2	0 - 255	0 - 100	Strobe Green intensity
	3	0 - 255	0 - 100	Strobe Blue intensity
	4	0 - 255	0 - 100	Strobe White intensity
	5	0 - 255	0 - 100	Strobe Intensity
	6	0 - 255	0 - 100	Strobe Duration
	7	0 - 255	0 - 100	Strobe Rate
	8	0 - 255	0 - 100	Strobe FX
	9	0 - 255	0 - 100	1 pix Red intensity
	10	0 - 255	0 - 100	1 pix Green intensity
Strobe + RGBW 1pix	11	0 - 255	0 - 100	1 pix Blue intensity
	12	0 - 255	0 - 100	1 pix White intensity
	13	0 - 255	0 - 100	2 pix Red intensity
	14	0 - 255	0 - 100	2 pix Green intensity
	15	0 - 255	0 - 100	2 pix Blue intensity
	16	0 - 255	0 - 100	2 pix White intensity
	17	0 - 255	0 - 100	3 pix Red intensity
	18	0 - 255	0 - 100	3 pix Green intensity
	19	0 - 255	0 - 100	3 pix Blue intensity
	20	0 - 255	0 - 100	3 pix White intensity

4. APPENDIX

BASICS OF DMX CONTROL

There are 512 channels in a DMX-512 connection. Channels may be assigned in any manner. A fixture capable of receiving DMX-512 will require one or a number of sequential channels. The user must assign a starting address on the fixture that indicates the first channel reserved in the lighting console. There are many different types of DMX controllable fixtures and they all may vary in the total number of channels required. Choosing a start address should be planned in advance. Channels should never overlap. If they do, this will result in erratic operation of the overlapping fixtures. You can however, control multiple fixtures of the same type using the same starting address as long as the intended result is that of unison movement or operation. In other words, the fixtures will be slaved together and all will respond identically.

DMX fixtures are often designed to receive and transmit data through a DMX daisy-chain. A DMX daisy-chain is where the DMX OUT of one fixture connects to the DMX IN of the next fixture. The order in which the fixtures are connected is not important and has no effect on how a lighting console communicates to each fixture. Use an order that provides for the easiest and most direct cabling. Connect fixtures using shielded two conductor twisted pair cable such as ProPlex® DMX with 5-pin XLR male to female connectors. The shield/ground is pin 1, while pin 2 is Data Negative (D-) and pin 3 is Data positive (D+). Pins 4 and 5 are not used according to the DMX-512 standard.

GENERAL MAINTENANCE

To maintain optimum performance and minimize wear fixtures should be cleaned frequently. Usage and environment are contributing factors in determining frequency. As a general rule, fixtures should be cleaned at least twice a month. Dust build up reduces light output performance and can cause overheating. This can lead to reduced lamp life and increased mechanical wear. Be sure to disconnect power to the fixture before conducting maintenance.

Unplug fixture from power. Use a vacuum or air compressor and a soft brush to remove dust collected on external vents and internal components. Clean all glass when the fixture is cold with a mild solution of glass cleaner or Isopropyl Alcohol and a soft lint free cotton cloth or lens tissue. Apply solution to the cloth or tissue and drag dirt and grime to the outside of the lens. Gently polish optical surfaces until they are free of haze and lint.

The cleaning of internal and external optical lenses and/or mirrors must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates: damp, smoky or particularly dirty surroundings can cause greater accumulation of dirt on the unit's optics. Clean with soft cloth using normal glass cleaning fluid. Always dry the parts carefully. Clean the external optics at least every 20 days. Clean the internal optics at least every 30 to 60 days.

LIMITED WARRANTY

Solaris LED fixtures (the Product) are warranted by TMB against defective materials or workmanship for a period of two (2) years from the date of original sale by TMB. TMB's warranty shall be restricted to the repair or replacement of any part that proves to be defective and for which a claim is submitted to TMB before the expiration of the applicable warranty periods.

This Limited Warranty is void if the defects of the Product are the result of:

- Opening the casing, repair, or adjustment by anyone other than TMB or persons specifically authorized by TMB
- Accident, physical abuse, mishandling, or misapplication of the product.
- Damage due to lightning, earthquake, flood, terrorism, war, or act of God.

TMB will not assume responsibility for any labor expended, or materials used, to replace and/or repair the Product without TMB's prior written authorization. Any repair of the Product in the field, and any associated labor charges, must be authorized in advance by TMB. Freight costs on warranty repairs are split 50/50: Customer pays to ship defective product to TMB; TMB pays to ship repaired product, ground freight, back to Customer. This warranty DOES NOT cover consequential damages or costs of any kind.

A Return Merchandise Authorization (RMA) Number must be obtained from TMB prior to return of any defective merchandise for warranty or non-warranty repair. For all repairs please contact TMB Tech Support Repair using the contact information below or email TechSupportRepairna@tmb.com.

527 Park Ave., San Fernando, CA 91340

Tel: +1 818.899.8818

Fax: +1 818.899.8813

tmb-info@tmb.com

www.tmb.com

RETURN PROCEDURE

Returned merchandise must be sent prepaid and in the original packing, call tags will not be issued. Package must be clearly labeled with a Return Merchandise Authorization Number (RMA #). Products returned without an RMA # will be refused. Please contact TMB and request RMA # prior to shipping the fixture. Be prepared to provide the model number, serial number and a brief description of the cause for the return. Be sure to properly pack fixture, any shipping damage resulting from inadequate packaging is the customer's responsibility. TMB reserves the right to use its own discretion to repair or replace product(s). As a suggestion, proper UPS packing or double-boxing is always a safe method to use.

Note: If you are given an RMA #, please include the following information on a piece of paper inside the box:

- 1) Your name
- 2) Your address
- 3) Your phone number
- 4) The RMA #.
- 5) A brief description of the symptoms

CONTACT INFORMATION

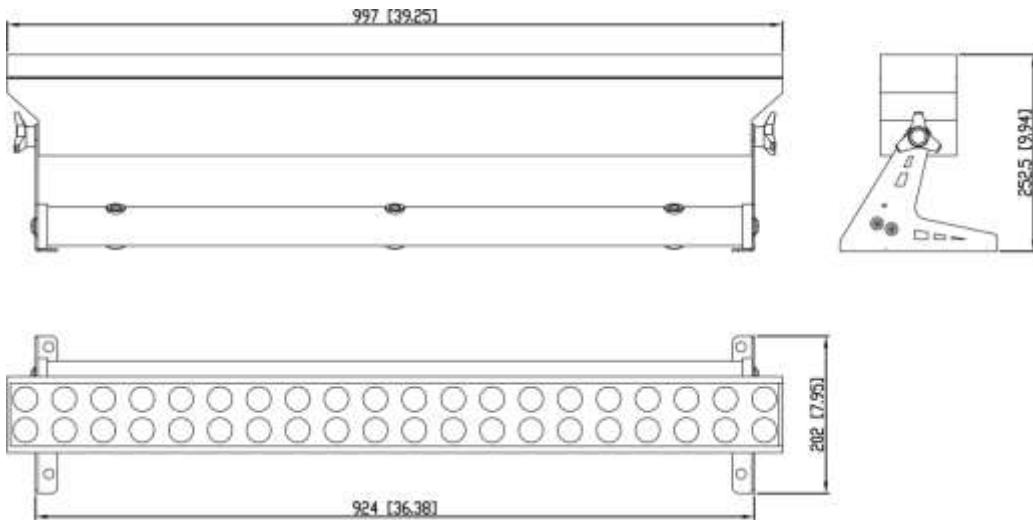
GENERAL INFORMATION

TMB	
US Phone:	+1 818.899.8818
Fax:	+1 818.899.8813
UK Phone:	+44 (0)20.8574.9700
Fax:	+44 (0)20.8574.9701
e-mail:	tmb-info@tmb.com
web:	www.tmb.com

24/7 TECHNICAL SUPPORT

TMB	
US/Canada:	1 877.TMB.DUDE (+1 877.862.3833)
Toll-free UK:	0800.652.5418
International:	+1 818.794.1286
e-mail:	techsupport@tmb.com

TECHNICAL SPECIFICATIONS – SOLARIS LED RGBW 10x4 BATTEN



WEIGHT & DIMENSIONS WITHOUT YOKE

LENGTH	39.3 IN / 998 MM
WIDTH	3.8 IN / 97MM
HEIGHT	4.6 IN / 116 MM
WEIGHT	11.44 LB / 5.2 KG

POWER

OPERATING VOLTAGE	100-240V AC, 50/60 Hz
FUSE	6A, 250V SLOW-BLOW
POWER CONSUMPTION	400W MAX.
POWER CONNECTORS	IN / OUT POWERCON 20A BLUE / GREY

LIGHT SOURCE

LED COUNT	40 CREE LEDs, 10 GROUPS (PIXELS)
COLORS.....	RED , GREEN , BLUE, WHITE
BEAM SPREAD.....	LENS 22°
REFRESH RATE.....	1200Hz
AVERAGE COLOR WAVELENGTH	RED: 625 NM GREEN: 530 NM BLUE: 460 NM WHITE < 5700 K

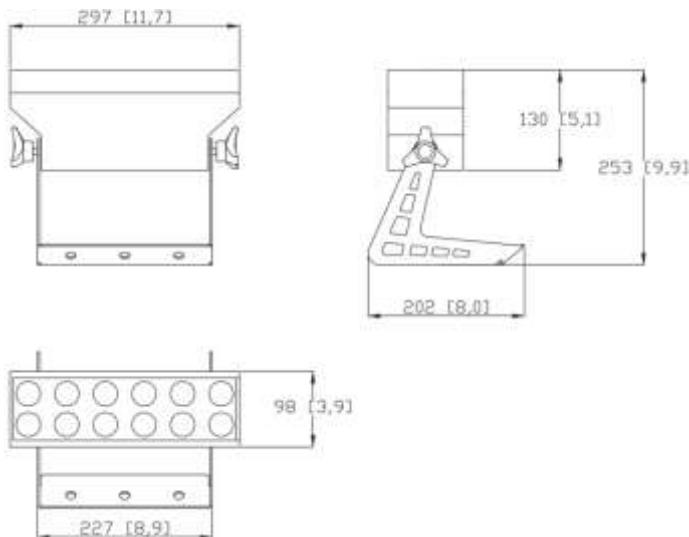
THERMAL

MAXIMUM AMBIENT TEMPERATURE	+40°C
MINIMUM AMBIENT TEMPERATURE	-20°C
COOLING	AIR COOLED FAN

CONTROL & PROGRAMMING

CONTROL.....	DMX-512
DMX CHANNELS	3 - 80
PRE-PROGRAMED TEST	1 - 19 , ALL IN LOOP
DMX INPUT.....	LOCKING 5-PIN XLR MALE SOCKET
DMX OUTPUT.....	LOCKING 5-PIN XLR FEMALE SOCKET
DMX PIN CONFIG.....	PIN 1 SHIELD; PIN 2 (-); PIN 3 (+); PIN 4, PIN 5 N/A

TECHNICAL SPECIFICATIONS – SOLARIS LED RGBW 3x4 BRICK



WEIGHT & DIMENSIONS WITHOUT YOKE

LENGTH.....	11.7 IN / 298 MM
WIDTH.....	3.8 IN / 97MM
HEIGHT.....	3.5 IN / 89 MM
WEIGHT.....	5.1 LB / 2.3 KG

POWER

OPERATING VOLTAGE.....	100-240V AC, 50/60 Hz
FUSE	4A, 250V SLOW-BLOW
POWER CONSUMPTION	120W MAX.
POWER CONNECTORS	IN / OUT POWERCON 20A BLUE / GREY

LIGHT SOURCE

LED COUNT	12 CREE LEDs, 3 GROUPS (PIXELS)
COLORS.....	RED , GREEN , BLUE, WHITE
BEAM SPREAD.....	LENS 22°
REFRESH RATE.....	1200Hz
AVERAGE COLOR WAVELENGTH.....	RED: 625 NM GREEN: 530 NM BLUE: 460 NM WHITE < 5700 K

THERMAL

MAXIMUM AMBIENT TEMPERATURE	+40°C
MINIMUM AMBIENT TEMPERATURE	-20°C
COOLING	AIR COOLED FAN

CONTROL & PROGRAMMING

CONTROL.....	DMX-512
DMX CHANNELS	3 - 24
PRE-PROGRAMED TEST.....	1 - 19 , ALL IN LOOP
DMX INPUT.....	LOCKING 5-PIN XLR MALE SOCKET
DMX OUTPUT.....	LOCKING 5-PIN XLR FEMALE SOCKET
DMX PIN CONFIG.....	PIN 1 SHIELD; PIN 2 (-); PIN 3 (+); PIN 4, PIN 5 N/A