

# SOLARIS Flare LR Q+ Strobe and Blinder Lighting User Guide

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### SOLARIS Flare LR Q+ Strobe and Blinder Lighting User Guide



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#### SAFETY INSTRUCTIONS

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

- Keep this Quick Start Guide for future reference. If unit is sold to another user, make sure they also receive this
  instruction booklet.
- Ensure the unit is connected to proper voltage, and that line voltage is not higher than that stated on the device.
- 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.
- Maximum ambient temperature (Ta) is 40°C (104°F). Do not operate unit 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.

**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.

#### UNPACKING INSTRUCTIONS

Upon receipt of the unit, 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 unit must be returned to the factory, it is important that it 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 unit accommodates 100-240VAC, 50/60Hz. All units 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 for a 0-100% switch.

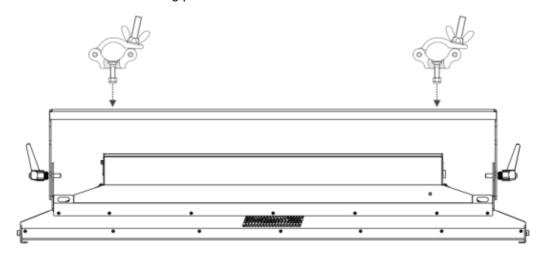
#### RIGGING SOLARIS FLARE Q+ LR



Always consult a certified rigging specialist before suspending any device overhead.

Solaris Flare Q+ LR weighs approx. 24.3 lbs (11 kg) and requires multiple attachment points for safety. Use ProBurger® couplers or equivalent C- or O-type clamps for attaching to truss, rated for fixture weight. After establishing the desired position, tighten all appropriate bolts.

- · Always use safety cables!
- When selecting installation location, consider routine maintenance.
- Team lift the fixture into mounting location, never try to mount fixture with one person.
- Never mount fixture where it will be exposed to excess moisture, high humidity, extreme temperatures, or restricted ventilation for long periods of time



#### **SOLARIS FLARE Q+ LR ATTACHABLE FEET**

Solaris Flare Q+ LR has optional feet attachments which allow for floor mounting applications. The PreSet™ Yoke automatically snaps to 15° increments from -45° to +135° for ease of use and focusing.

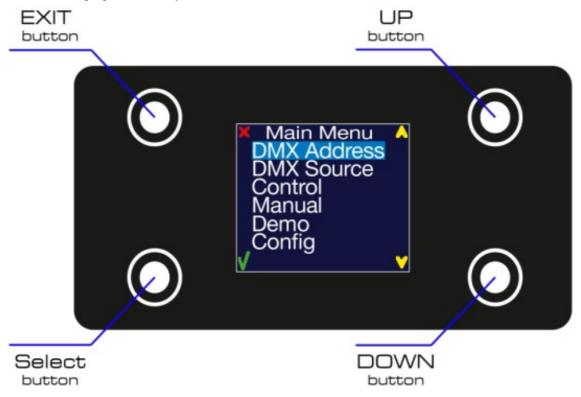


#### **NAVIGATION OVERVIEW**

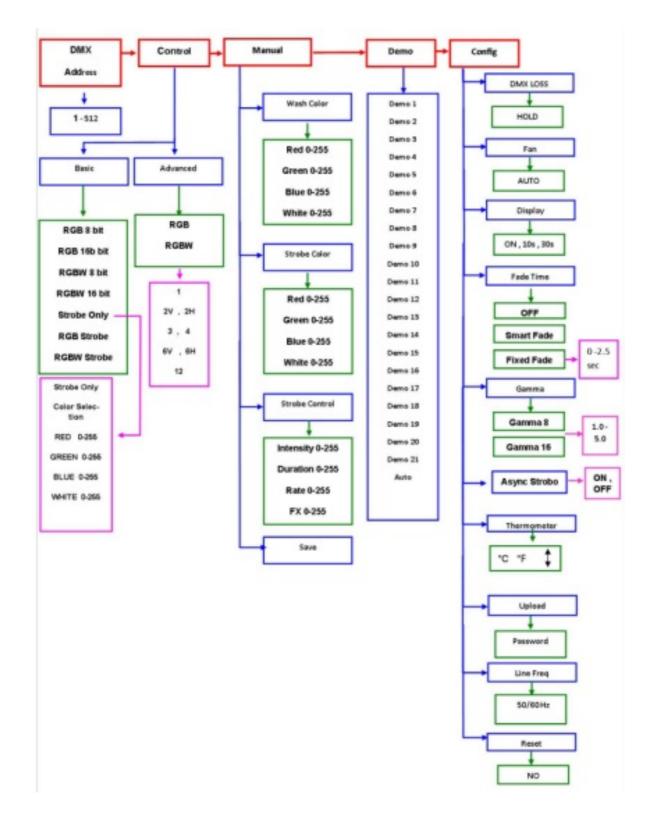
The default menu display shows the current DMX address, mode and footprint, as well as the option to rotate the screen and enter further menu options. Four control panel buttons are located near each corner of the LCD Display.



Press and hold the **<MENU>** button to scroll through the top-level menu items. Use the and buttons, located to the right of the LCD screen, to navigate the menu map and menu options. Press the  $< \checkmark >$  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.



**MENU MAP** 



#### FLARE Q+ LR PIXEL MAP

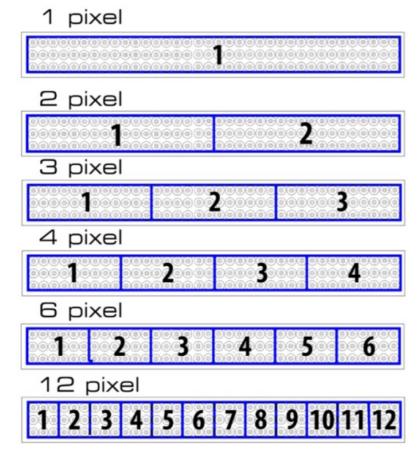
Solaris Flare Q+ LR feature 108 10W Cree LEDs located in 3 rows and 36 columns.

The LEDs have multiple options of control, subdivided into different "pixel" quantities. In Advanced Control Modes the Flare Q+ LR has the additional function of selecting a desired pixel group.

LEDs are grouped into the following pixel options:

- 1-pixel unit 1 group of 108 LEDs
- 2-pixel unit 2 groups of 54 LEDs

- 3-pixel unit 3 groups of 36 LEDs
- 4-pixel unit 4 groups of 27 LEDs
- 6-pixel unit 6 groups of 18 LEDs
- 12-pixel unit 12 groups of 9 LEDs



**Note!** Each mode can be inverted when last pixel becomes the first.

### **BASIC CONTROL MODES**

Basic control modes for RGB and RGBW control the Flare Q+ LR as 1-pixel mode for color wash applications.

Mode	Channel	DMX values	Preset	Function
	1	0 – 255	0 – 100	Red Intensity
RGB 8bit	2	0 – 255	0 – 100	Green Intensity
ODIL	3	0 – 255	0 – 100	Blue Intensity
	1	0 – 255	0 – 100	Red Intensity HI Byte
	2	0 – 255	0 – 100	Red Intensity LOW Byte
	3	0 – 255	0 – 100	Green Intensity HI Byte
RGB 16bit	4	0 – 255	0 – 100	Green Intensity LOW Byte
	5	0 – 255	0 – 100	Blue Intensity HI Byte
	6	0 – 255	0 – 100	Blue Intensity LOW Byte

Mode	Channel	DMX values	Preset	Function
	1	0 – 255	0 – 100	Red Intensity
	2	0 – 255	0 – 100	Green Intensity
RGBW 8bit	3	0 – 255	0 – 100	Blue Intensity
	4	0 – 255	0 – 100	White Intensity
	1	0 – 255	0 – 100	Red Intensity HI Byte
	2	0 – 255	0 – 100	Red Intensity LOW Byte
	3	0 – 255	0 – 100	Green Intensity HI Byte
	4	0 – 255	0 – 100	Green Intensity LOW Byte
RGBW 16bit	5	0 – 255	0 – 100	Blue Intensity HI Byte
	6	0 – 255	0 – 100	Blue Intensity LOW Byte
	7	0 – 255	0 – 100	White Intensity HI Byte
	8	0 – 255	0 – 100	White Intensity LOW Byte

# **STROBE MODES**

Strobe Only Mode	1	0 – 255	0 – 100	Strobe Intensity
	2	0 – 255	0 – 100	Strobe Duration
	3	0 – 255	0 – 100	Strobe Rate
	4	0 – 255	0 – 100	Strobe FX

### **Strobe Value Breakdown:**

DMX Value	DMX Percent	Strobe Intensity
0-5	0-2	Blackout
6 – 255	3 – 100	Intensity level
		Strobe Duration
0 – 254	0 – 99	0 – 650ms (50Hz AC)
255	100	HYPER
		Strobe Rate
0 – 5	0-2	No flash
6 – 255	3 – 100	0.5 – 25Hz (50Hz AC); 0.6 – 30Hz (60Hz AC)
		Strobe 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 Background4

Mode	Channel	DMX Value	Percent	Function
	1	0 – 255	0 – 100	Red Strobe Intensity
	2	0 – 255	0 – 100	Green Strobe Intensity

	3	0 – 255	0 – 100	Blue Strobe Intensity
RGB	4	0 – 255	0 – 100	Strobe Intensity
Strobe	5	0 – 255	0 – 100	Strobe Duration
	6	0 – 255	0 – 100	Strobe Rate
	7	0 – 255	0 – 100	Strobe FX
	1	0 – 255	0 – 100	Red Strobe Intensity
	2	0 – 255	0 – 100	Green Strobe Intensity
	3	0 – 255	0 – 100	Blue Strobe Intensity
	4	0 – 255	0 – 100	White Strobe Intensity
RGBW Strobe	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

### **ADVANCED RGB STROBE MODES**

RGBW PIXEL MODE 11 RGBW PIXEL MODE 213 RGBW PIXEL MODE 317 RGBW PIXEL MODE 421 RGBW PIXEL MODE 625 RGBW PIXEL MODE 1233

PIXEL MODE	CHANNEL	DMX VALUE	PERCENT	FUNCTION
	1	0 – 255	0 – 100	Red Strobe Intensity
	2	0 – 255	0 – 100	Green Strobe Intensity
	3	0 – 255	0 – 100	Blue Strobe Intensity
	4	0 – 255	0 – 100	Strobe Intensity
RGB PIXEL M	5	0 – 255	0 – 100	Strobe Duration
ODE 1	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
RGB PIXEL M ODE 2	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
RGB PIXEL M ODE 3	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
RGB PIXEL M ODE 4	18	0 – 255	0 – 100	4 pix Green intensity
	19	0 – 255	0 – 100	4 pix Blue intensity
	20	0 – 255	0 – 100	5 pix Red intensity
	21	0 – 255	0 – 100	5 pix Green intensity
RGB PIXEL M	22	0 – 255	0 – 100	5 pix Blue intensity
ODE 6	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
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
38	0 – 255	0 – 100	11 pix Red intensity
39	0 – 255	0 – 100	11 pix Green intensity
40	0 – 255	0 – 100	11 pix Blue intensity
41	0 – 255	0 – 100	12 pix Red intensity

0 – 255	0 – 100	12 pix Green intensity
0 – 255	0 – 100	12 pix Blue intensity
0 – 100	Red Strobe Intensity	
0 – 255	0 – 100	Green Strobe Intensity
0 – 255	0 – 100	Blue Strobe Intensity
0 – 255	0 – 100	White Strobe Intensity
0 – 255	0 – 100	Strobe Intensity
0 – 255	0 – 100	Strobe Duration
0 – 255	0 – 100	Strobe Rate
0 – 255	0 – 100	Strobe FX
0 – 255	0 – 100	1 pix Red intensity
0 – 255	0 – 100	1 pix Green intensity
0 – 255	0 – 100	1 pix Blue intensity
0 – 255	0 – 100	1 pix White intensity
	0 - 255  0 - 100  0 - 255  0 - 255  0 - 255  0 - 255  0 - 255  0 - 255  0 - 255	0 - 255       0 - 100         0 - 100       Red Strobe Intensity         0 - 255       0 - 100         0 - 255       0 - 100         0 - 255       0 - 100         0 - 255       0 - 100         0 - 255       0 - 100         0 - 255       0 - 100         0 - 255       0 - 100         0 - 255       0 - 100         0 - 255       0 - 100         0 - 255       0 - 100         0 - 255       0 - 100

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
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
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
0 – 255	0 – 100	5 pix Red intensity	
26	0 – 255	0 – 100	5 pix Green intensity

RGB PIXEL M ODE 12

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	
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	- 100 8 pix White intensity		

0 – 255	0 – 100	9 pix Red intensity
0 – 255	0 – 100	9 pix Green intensity
0 – 255	0 – 100	9 pix Blue intensity
0 – 255	0 – 100	9 pix White intensity
0 – 255	0 – 100	10 pix Red intensity
0 – 255	0 – 100	10 pix Green intensity
0 – 255	0 – 100	10 pix Blue intensity
0 – 255	0 – 100	10 pix White intensity
0 – 255	0 – 100	11 pix Red intensity
0 – 255	0 – 100	11 pix Green intensity
0 – 255	0 – 100	11 pix Blue intensity
0 – 255	0 – 100	11 pix White intensity
0 – 255	0 – 100	12 pix Red intensity
0 – 255	0 – 100	12 pix Green intensity
	0 - 255  0 - 255  0 - 255  0 - 255  0 - 255  0 - 255  0 - 255  0 - 255  0 - 255	0 - 255       0 - 100         0 - 255       0 - 100         0 - 255       0 - 100         0 - 255       0 - 100         0 - 255       0 - 100         0 - 255       0 - 100         0 - 255       0 - 100         0 - 255       0 - 100         0 - 255       0 - 100         0 - 255       0 - 100         0 - 255       0 - 100         0 - 255       0 - 100         0 - 255       0 - 100

55	0 – 255	0 – 100	12 pix Blue intensity
56	0 – 255	0 – 100	12 pix White intensity

# **RDM SENSORS AND FUNCTIONS**

Solaris Flare Q+ LR can be operated via Remote Device Management (RDM) that will assist with fixture setup and maintenance.

PID	Name		
Category – Status Collection			
0x0020	QUEUED_MESSAGE		
Category – RDM Information			
0x0050	SUPPORTED_PARAMETERS		
0x0051	PARAMETER_DESCRIPTION		
Category – Product Information			
0x0060	DEVICE_INFO		
0x0080	DEVICE_MODEL_DESCRIPTION		
0x0081	MANUFACTURER_LABEL		
0x0082	DEVICE_LABEL		

0x0090	FACTORY_DEFAULTS		
0x00C0	SOFTWARE_VERSION_LABEL		
Category – DMX512 Setup			
0x00E0	DMX_PERSONALITY		
	DMX_PERSONALITY_DESCRIPTION		
0x00F0	DMX_START_ADDRESS		
Category – Sensors			
0x0200	SENSOR_DEFINITION		
0x0201	SENSOR_VALUE		
0x0202	RECORD_SENSORS		
Category – Control			
0x1000	IDENTIFY_DEVICE		
0x1001	RESET_DEVICE		

### **LIMITED WARRANTY**

Solaris fixtures 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 <a href="mailto:TechSupportRepairNA@tmb.com">TechSupportRepairNA@tmb.com</a>.

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#### **Documents / Resources**



**SOLARIS Flare LR Q+ Strobe and Blinder Lighting** [pdf] User Guide Flare LR Q, Strobe and Blinder Lighting

### References

### • tmb TMB

Manuals+,