

# Sunrise 2IP

PROLIGHTS

IP rated modular LED blinder with 2x75W
LED WW and Tungsten emulation



**USER MANUAL** 

REV.02-09/20 English version

## Thank you for choosing PROLIGHTS

Please note that every PROLIGHTS product has been designed in Italy to meet quality and performance requirements for professionals and designed and manufactured for the use and application as shown in this document.

Any other use, if not expressly indicated, could compromise the good condition/operation of the product and/or be a source of danger.

This product is meant for professional use. Therefore, commercial use of this equipment is subject to the respectively applicable national accident prevention rules and regulations.

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Product user manual can be downloaded from the website www.prolights.it, or can be inquired to the official PROLIGHTS distributors of your territory (https://www.prolights.it/sales\_network.html).

Scanning the below **QR Code**, you will access the download area of the product page, where you can find a broad set of always updated technical documentation: specifications, user manual, technical drawings, photometrics, personalities, fixture firmware updates.



Visit the download area of the product page



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## **INDEX**

SAFETY INFORMATION	02
1 - PACKAGING	05
PACKAGE CONTENT	05
OPTIONAL ACCESSORIES	05
2 - TECHNICAL DRAWING	05
3 - INSTALLATION	06
MOUNTING	06
4 - CONNECTION TO THE MAINS SUPPLY	07
5 - START UP	07
CONNECT AND DISCONNECT POWER FROM THE PRODUCT	07
6 - PRODUCT OVERVIEW	08
7 - DMX CONNECTION	09
CONNECTION OF THE CONTROL SIGNAL: DMX LINE	09
INSTRUCTIONS FOR A RELIABLE DMX CONNECTION	09
CONNECTION DAISY CHAIN	09
CONNECTION OF THE DMX LINE	09
CONSTRUCTION OF THE DMX TERMINATION	
DMX ADDRESSING	10
8 - CONTROL PANEL	11
DISPLAY AND BUTTONS LAYOUT	11
9 - MENU STRUCTURE	12
10 - RDM FUNCTIONS	14
11 - ERROR MESSAGES	15
12 - DMX CHARTS	16
13 - ACCESSORIES INSTALLATION	18
HANGING BRACKET (CODE SR2IPHB02H)	18
HANGING BRACKET (CODE SR2IPHB04H)	
HANGING BRACKET (CODE SR2IPHB01V)	20
14 - MAINTENANCE	21
MAINTENANCE AND CLEANING THE PRODUCT	
REPLACING THE FUSE	
VISUAL CHECK OF PRODUCT HOUSING	
TROUBLESHOOTING	22

## SAFETY INFORMATION



#### WARNING!

Please read carefully the instruction reported in this section before installing, powering, operating or servicing the product and observe the indications also for its future handling.



This unit is not for household use, only professional applications.



#### Connection to mains supply

- The Connection to the mains supply must be carried out by a qualified electrical installer
- Use only AC supplies 100-240V 50-60 Hz, the fixture must be electrically connected to ground (earth).
- Select the cable cross section in according with the maximum current draw of the product and the possible number of products connected at the same power line.
- The AC mains power distribution circuit must be equipped with magnetic+residual current circuit breaker protection.
- Do not connect it to a dimmer system; doing so may damage the product.



## Protection and Warning against electrical shock

- Do not remove any cover from the product, always disconnect the product from AC power before servicing.
- Ensure that the fixture is electrically connected to ground (earth). And use only a source of AC power that complies with local building and electrical codes and has both overload and ground-fault (earth-fault) protection.
- Before using the fixture, check that all power distribution equipment and cables are in perfect condition and rated for the current requirements of all connected devices.
- Isolate the fixture from power immediately if the power plug or any seal, cover, cable, or other components are damaged, defective, deformed or showing signs of overheating.
- Do not reapply power until repairs have been completed.
- Refer any service operation not described in this manual to PROLIGHTS Service team or an authorized PROLIGHTS service center.



### Installation

- Make sure that all visible parts of the product are in good visible condition before its use or installation.
- Make sure the point of anchorage is stable before positioning the projector.
- When suspending the fixture above ground level, secure it against failure of primary attachments by attaching a safety cable that is approved as a safety attachment for the weight of the fixture to the attachment point on the main frame of the product. In case the safety cable, enter in action, it needs to be replaced with a new one.
- Install the product only in well ventilated places.
- For non temporary installations, ensure that the fixture is securely fastened to a load-bearing surface with suitable corrosionresistant hardware.
- For a temporary installation with clamps, ensure that the quarter-turn fastener and/or screws are turned fully, and secured with a suitable safety cable.



#### Minimum distance of illuminated objects

• The projector needs to be positioned so that the objects hit by the beam of light are at least 0.5 meters (1.64 ft) from the lens of the projector.

#### Ta45°C

## Max operating ambient temperature (Ta)

Do not operate the fixture if the ambient temperature (Ta) exceeds 45 °C (113 °F).

## Ta-20°C

## Minimum operating ambient temperature (Ta)

Do not operate the fixture if the ambient temperature (Ta) is below -20 °C (-4 °F).



#### Protection from burns and fire

- The exterior of the fixture becomes hot during use. Avoid contact by persons and materials.
- Ensure that there is free and unobstructed airflow around the fixture.
- Keep flammable materials well away from the fixture
- Do not expose the front glass to sunlight or any other strong light source from any angle. Lenses can focus the sun's rays inside the fixture, creating a potential fire hazard.
- Do not attempt to bypass thermostatic switches or fuses.

## IP65

## Permanent Outdoor use

- This product is rated with an IP (Ingress protection) for permanent outdoor use when used and serviced according to the instruction contained in this document.
- Never use the fixture in places subject to vibrations or bumps.
- Make certain that no inflammable liquids, water or metal objects enter the fixture.
- Excessive dust, smoke fluid, and particle build up degrades performance, causes overheating and will damage the fixture.
- Damages caused by inadequate cleaning or maintenance are not covered by the product warranty.

## T<sub>C</sub>75°C

## Temperature of the external surface

 The surface of the fixture can reach up to 75 °C (167 °F) during operation. Avoid contact with people and materials.



#### Maintenance

- Warning! Disconnect the fixture from AC mains power and allow to cool for at least 10 minutes before handling.
- Only technicians who are authorized by PROLIGHTS or Authorised service partners are permitted to open the fixture.
- Users may carry out external cleaning, following the warnings and instructions provided, but any service operation not described in this manual must be referred to a qualified service technician.
- Important! Excessive dust, smoke fluid, and particle build up degrades performance, causes overheating and will damage the fixture. Damages caused by inadequate cleaning or maintenance is not covered by the product warranty.



## Photobiological safety

This device emits potentially dangerous optical radiation and is identified in the category of Risk Group 1 according to EN 62471.



## Do not stare at the operating light source

- Do not look directly at the LED source during operation. It can be harmful to the eyes and skin.
- During Installation, operation and maintenance, be prepared for the fixture to light and move suddenly when connected to power.



## Disposal

- This product is supplied in compliance with European Directive 2012/19/EU Waste Electrical and Electronic Equipment
- (WEEE). To preserve the environment please dispose/ recycle this product at the end of its life according to the local regulation.



## The product contains a lithium ion battery

- Don't throw the unit into the garbage at the end of its lifetime.
- Make sure to dispose according to your local ordinances and/or regulations, to avoid polluting the environment!
- The packaging is recyclable and can be disposed.



## The products to which this manual refers comply with:

- 2014/35/EU Safety of electrical equipment supplied at low voltage (LVD).
- 2014/30/EU Electromagnetic Compatibility (EMC).
- 2011/65/EU Restriction of the use of certain hazardous substances (RoHS).

## 1 - PACKAGING

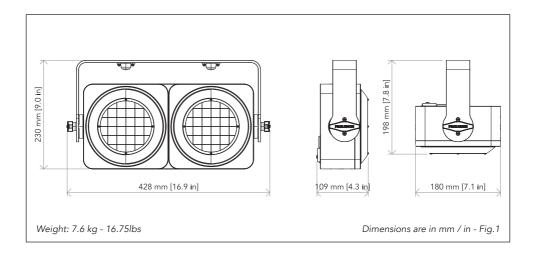
## PACKAGE CONTENT

- SUNRISE2IP;
- Power cable 1.5 m, Schuko PowerCon True1;
- SR2IPOS: Quick-lock omega bracket for SUNRISE2IP (1 pc);
- User manual.

#### OPTIONAL ACCESSORIES

- SR2IPHB01V: Hanging bracket for SUNRISE2IP, mounting for 1 vertical column of LEDs;
- SR2IPHB04H: Hanging bracket for SUNRISE2IP, mounting for 4 horizontal columns of LEDs;
- FCLSUNRISE2IP: Flight case with internal compartments for 4 pcs of SUNRISE2IP:
- UPBOX1U: Firmware uploader kit, USB IN, 3pin XLR DMX OUT,;
- RSR1235A/B: Steel security cable for hanging bodies, inox steel shackle, L=120 cm, silver/black;
- C6002: Slim aluminium clamp, 200 kg loading, 48-51 mm tubes, M10 bolt.

## 2 - TECHNICAL DRAWING



## 3 - INSTALLATION

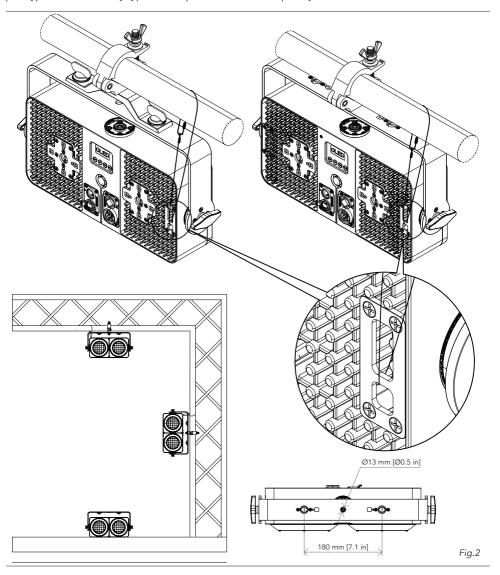
## MOUNTING

Check that the supporting structure can safely bear the weight of all installed fixtures, clamps, cables, auxiliary equipment, etc. and complies with locally applicable regulations.

When suspending the fixture above ground level, secure it against failure of primary attachments by attaching a safety wire that is approved as a safety attachment for the weight of the fixture to an anchor point on the product main frame.

Do not use removable parts or weak anchors for secondary attachment.

Warning! When clamping the fixture to a truss or other structure at any angle, use clamps of half-coupler type. Do not use any type of clamp that does not completely encircle the structure when fastened.



## 4 - CONNECTION TO THE MAINS SUPPLY

WARNING: For protection from electric shock, the fixture must be earthed!

The product is equipped with auto-switching power supply that automatically adjusts to any 50-60Hz AC power source from 100-240 Volts.

If you need to install a power plug on the power cable to allow connection to power outlets, install a grounding-type (earthed) plug, following the plug manufacturer's instructions. If you have any doubts about proper installation, consult a qualified electrician.

The max power consumption is 160W.

Core (EU)	Core (US)	Connection	Plug terminal marking
Brown	Black	Live	L
Blue	White	Neutral	N
Yellow+green	Green	Earth	

## 5 - START UP

## CONNECT AND DISCONNECT POWER FROM THE PRODUCT

To apply and disconnect power to the product:

- Check that the product is installed and secured as indicated in the Safety Informations, and that personal safety will not be put at risk when the fixture lights up.
- Connect the power connector into the Mains input socket (100-240 VAC-50/60 Hz).
- The product is then ready for its operations and can be controlled through the available input signals on board.
- To disconnect power from the product, disconnect the Mains from the socket.

## 6 - PRODUCT OVERVIEW

- 1. BRACKET:
- 2. KNOB for bracket;
- 3. USER INTERFACE with display and buttons for access to the control panel functions;
- 4. HOLES for fast-lock omega brackets;
- 5. SAFETY EYE to attach safety cable;
- 6. DMX IN (5-p XLR): 1 = GND, 2 = sign-, 3 = sign+, 4 N/C, 5 N/C;
- 7. DMX OUT (5-p XLR): 1 = GND, 2 = sign-, 3 = sign+, 4 N/C, 5 N/C;
- 8. GORE VALVE;
- 9. POWER IN: for connection to the Mains 100-240V~/50-60Hz;
- 10.POWER OUT: power output for connection of multiple units in series.

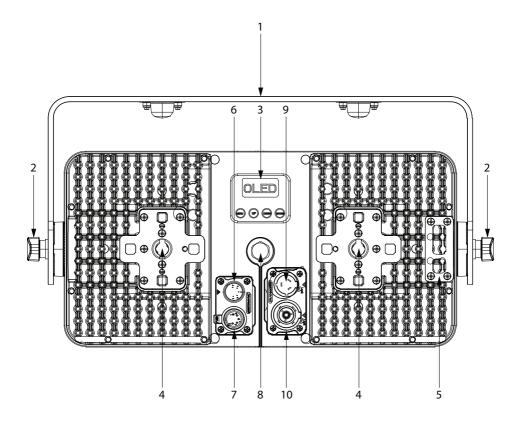


Fig.3

## 7 - DMX CONNECTION

## CONNECTION OF THE CONTROL SIGNAL: DMX LINE

The product has XLR sockets for DMX input and output.

The default pin-out on both socket is as the following diagram:

## DMX - INPUT XLR plug



Pin1 : GND - Shield Pin2 : - Signal Pin3 : + Signal Pin4 : N/C Pin5 : N/C

## DMX - OUTPUT XLR socket



Fig.4

#### INSTRUCTIONS FOR A RELIABLE DMX CONNECTION

Use shielded twisted-pair cable designed for RS-485 devices: standard microphone cable cannot transmit control data reliably over long runs. 24 AWG cable is suitable for runs up to 300 meters (1000 ft). Heavier gauge cable and/or an amplifier is recommended for longer runs.

To split the data link into branches, use splitter-amplifiers in the connection line.

Do not overload the link. Up to 32 devices may be connected on a serial link.

#### CONNECTION DAISY CHAIN

Connect the DMX data output from the DMX source to the product DMX input (male connector XLR) socket.

Run the data link from the product XLR output (female connector XLR) socket to the DMX input of the next fixture.

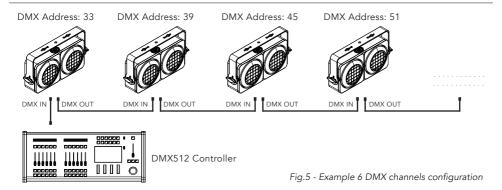
Terminate the data link by connecting a 120 Ohm signal termination. If a splitter is used, terminate each branch of the link.

Install a DMX termination plug on the last fixture on the link.

#### CONNECTION OF THE DMX LINE

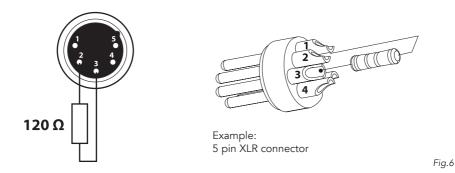
DMX connection employs standard XLR connectors. Use shielded pair-twisted cables with  $120\Omega$  impedance and low capacity.

The following diagram shows the connection mode:



#### CONSTRUCTION OF THE DMX TERMINATION

The termination is prepared by soldering a  $120\Omega$  1/4 W resistor between pins 2 and 3 of the male XLR connector, as shown in figure.



#### DMX ADDRESSING

In order to start controlling the product via DMX, the first step is to select a DMX address, also known as the start channel, this is the first channel used to receive instructions from a DMX controller. If you wish to control the product individually, it is necessary to assign a different starting address channel to each fixture.

The number of channels occupied from the product depends on the DMX mode selected, so always verify the DMX Mode in the MENU before start addressing.

If you assign two fixtures the same address, they will be executing the same behaviour. Selecting the same address to multiple fixtures can be useful for diagnostic purposes and symmetrical control.

DMX addressing is limited to make it impossible to set the DMX address so high that you are left without enough control channels for the product.

To set the fixture's DMX address:

- 1. Press MENU to open the main menu.
- 2. Reach the addressing menu, then select the DMX ADDRESS settings.
- 3. Select the address from 1 to 512 using the navigation arrows/buttons and confirm by pressing ENTER.
- 4. Press Menu to exit and return to the Home screen.

## 8 - CONTROL PANEL

The product has a display and buttons for access to the control panel functions.

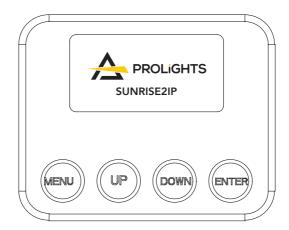


Fig.7

#### **DISPLAY AND BUTTONS LAYOUT**

The product has a display and buttons for access to the control panel functions:

- MENU: Used to access the menu tree or to return a previous menu window;
- UP: Browse upwards through the menu list and increases the numeric value displayed;
- DOWN: Browse downwards through the menu list and decreases the numeric value displayed;
- ENTER: Used to confirm the current menu or confirm the current function value or option within a menu.

## 9 - MENU STRUCTURE

The following chart describes the MENU tree of the product, the terms shown in **BOLD** indicates the default settings.

	MENU						
1	CONNECT	DMX ADDRESS	<b>001-</b> 512				
		DMX MODE	UNO	TUNGSTEN EMULATION ON TUNGSTEN EMULATION OFF			
			BASIC	TUNGSTEN EMULATION ON TUNGSTEN EMULATION OFF			
			STANDARD				
			EXTENDED				
2	SETUP	SCREEN	BACKLIGHT	ON 10 s 20 s 30 s	Allows you to select the timing after that display will switch automatically off when unactive.		
			FLIP DISPLAY	ON OFF	Allows you to rotate the display by 180°.		
			KEY LOCK	ON OFF	Allows you lock the buttons on the control panel by a password. Press following combinations (password) in order to access to the user menu: UP, DOWN, UP, DOWN, ENTER,		
			TEMPERATURE UNIT	<b>°C</b> °F	To choose the desired unit of temperature measurement.		
		TRANSFER CONFIGURATION	NO DMX ADDRESS WITH DMX ADDRESS		To transfer the same menu settings of one fixtures to all the other in the daisy chain, including or not the dmx address.		
3		DIMMER CURVE	LINEAR S-CURVE SQUARE LAW INVERSE SQUARE LAW		To choose the dimmer curve.		
		DIMMER SPEED	AUTO FAST MEDIUM SLOW		To choose the dimmer speed.		
		WHITE CALIBRATION	OFF		Disable the White Calibration.		
			MANUAL	TUNGSTEN 1 <125 ÷ 255> TUNGSTEN 2 <125 ÷ 255> AMBER <125 ÷ 255>	To adjust the max level for each color.		
		TUNGSTEN EMU- LATION	ON OFF		Emulation of halogen lamp.		
		LED FREQUENCY	600Hz 1200Hz 2000Hz 4000Hz 6000Hz 25KHz		Select PWM frequency		
		DMX FAULT	HOLD BLACKOUT STAND ALONE		To choose the behaviour of fixture in case of dmx signal lost.		
		INVERT MAPPING	ON OFF		To invert the pixel layout of the fixture.		
	L	FACTORY RELOAD	NO YES	L <u> </u>	To reset the unit to factory default settings.		

4	INFORMATION	DEVICE TIME	FIXTURE HOURS	TOTAL PARTIAL		
			CURRENT HOURS	TOTAL PARTIAL		
			SOURCE HOURS	TOTAL PARTIAL		
			POWER ON CYCLE	TOTAL PARTIAL		
			MAINTENANCE TIME	ELAPSED TIME ALERT PERIOD	10 ÷ 300	
		TEMPERATURE	NEAR SOURCE TEMP, DRIVER PCB TEMP, LED PCB TEMP,			
		CHANNEL VALUES				
		ERROR MESSAGE				
		FIXTURE MODEL				
		DEVICE LABEL				
		SOFTWARE VER- SION				
		RDM UID	15D00228****			
5	STAND ALONE	MASTER/SLAVE	MASTER SLAVE			Allow you to link and operating in synk multiple units without a DMX console. Choose a unit to perform as the Master. This unit must be the first unit in line; Set the successive units to be slave.
		EFFECTS	EFFECT 1 EFFECT 2 EFFECT 3 EFFECT 4 EFFECT 5	1 ÷ 100 1 ÷ 100 1 ÷ 100 1 ÷ 100 1 ÷ 100		To select the desired effect and speed.
		STATIC	TUNGTEN 1 TUNGTEN 2 STROBE	000 ÷ <b>255</b> 000 ÷ <b>255</b> <b>000</b> ÷ 255		To choose the desidered level of each color in static mode.

## 10 - RDM FUNCTIONS

The product can communicate using RDM (Remote Device Management) protocol over a DMX512 Networks.

RDM is a bi-directional communications protocol for use in DMX512 control systems, it is the open standard for DMX512 device configuration and status monitoring.

The RDM protocol allows data packets to be inserted into a DMX512 data stream without affecting existing non-RDM equipment. It allows a console or dedicated RDM controller to send commands to and receive messages from specific fixtures.

The PIDs in the following tables are supported in the product.

Category	Parameter	PID	GET	SET
Supported	Curve	0x0343	х	х
<b>Parameters</b>	Curve Description	0x0344	х	
	Device Hours	0x0400	х	х
	Device Info	0x0060	x	
	Device Label	0x0082	x	Х
	Device Model Description	0x0080	x	
	Device Power Cycles	0x0405	х	х
	Dimmer Information	0x0340	х	
	Discovery Mute	0x0002	x	
	Discovery Unique Branch	0x0001	x	х
	Discovery Un-Mute	0x0003	х	х
	Display Invert	0x0500	x	х
	DMX Personality	0x00E0	x	х
	DMX Personality Description	0x00E1	x	
	DMX Start Address	0x00F0	х	х
	Factory Defaults	0x0090	х	х
	Identify Device	0x1000	x	х
	Identify Mode	0x1040	x	х
	Lamp Hours	0x0401	x	х
	Lamp Mode	0x0404	x	х
	Lamp State	0x0403	x	х
	Lamp Strikes	0x0402	x	Х
	Manufacturer Label	0x0081	x	
	Modulation Frequency	0x0347	x	
	Modulation Frequency Description	0x0348	х	х
	Output Response Time	0x0345	х	Х
	Output Response Time Description	0x0346	x	
	Parameter Description	0x0051	x	х
	Product Detail ID List	0x0070	x	
	Sensor Definition	0x0200	х	
	Sensor Value	0x0201	х	
	Software Version Label	0x00C0	x	
	Supported Parameters	0x <u>00</u> 50	_ x _	L [

Manufac	cturer
Specific	PID

0:BLACKOUT,1:HOLD,2:STANDALONE	0x82DD	Х
CLEAN ALL DATA 0:NO,1:YES	0x82C8	Х
CURRENT HOURS	0x82C5	Х
EFFECT	0x8209	Х
EFFECT_SPEED	0x8210	Х
INVERT MAPPING 0:OFF 1:ON	0x82E1	Х
MAINTENANCE TIME:ALERT PERIOD	0x82DF	Х
MAINTENANCE TIME:ELAPSED TIME	0x82E0	Х
MASTER/SLAVE 0:MASTER 1:SLAVE	0x8211	Х
STATIC STROBE	0x8208	Х
STATIC TUNGTEN 1	0x82E2	Х
STATIC TUNGTEN 2	0x82E3	Х
TUNGSTEN EMULATION 0:OFF 1:ON	0x82BC	Х
WHITE CALIBRATION-AMBER1	0x8228	Х
WHITE CALIBRATION-AMBER2	0x822D	Х
WHITE CALIBRATION-TUNGSTEN1	0x8226	Х
WHITE CALIBRATION-TUNGSTEN2	0x822C	Х

## 11 - ERROR MESSAGES

ERROR SHOWED ON SCREEN	POSSIBLE CAUSES
[TEMPERATURE TOO HIGH]	This error message indicates that an overheating has oc- curred and the led has been switched OFF by the product protection system.
[MAINTENANCE TIME]	Need to be done standard maintenance and also reset of elipsed time.
[DMX ACTIVE]	If transfer configuration is used with dmx signal connected.

## 12 - DMX CHARTS

Channel	UNO	BASIC	STANDARD	EXTENDED
1	DIMMER	DIMMER 1	MASTER DIMMER	MASTER DIMMER
2		DIMMER 2	STROBE	MASTER DIMMER FINE
3			DIMMER SPEED	STROBE
4			TUNGSTEN EMULATION	DIMMER SPEED
5			DIMMER 1	TUNGSTEN EMULATION
6			DIMMER 2	DIMMER 1
7				DIMMER 1 FINE
8				DIMMER 2
9				DIMMER 2 FINE
10				EFFECT
11				EFFECT SPEED
12				FUNCTION

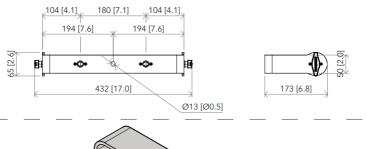
UNO	BASIC	STANDARD	EXTENDED	Function	DMX Value	Default
1				DIMMER	000 ÷ 255	000
	1			DIMMER 1	000 ÷ 255	000
	2			DIMMER 2	000 ÷ 255	000
		1	1	MASTER DIMMER	000 ÷ 255	000
			2	MASTER DIMMER FINE	000 ÷ 255	000
		2	3	STROBE Close Strobe from slow to fast Open Pulse in from slow to fast Open Pulse out from slow to fast Open Randon from slow to fast Open Randon from slow to fast Open	000 ÷ 001 002 ÷ 062 063 ÷ 064 065 ÷ 125 126 ÷ 127 128 ÷ 188 189 ÷ 190 191 ÷ 251 252 ÷ 255	255
		3	4	DIMMER SPEED Preset dimmer speed from display menu Dimmer speed off Dimmer speed fast Dimmer speed medium Dimmer speed slow	000 ÷ 051 052 ÷ 101 102 ÷ 152 153 ÷ 203 204 ÷ 255	000
		4	5	TUNGSTEN EMULATION OFF ON	000 ÷ 127 128 ÷ 255	000
		5		DIMMER 1	000 ÷ 255	255
		6		DIMMER 2	000 ÷ 255	255
			6	DIMMER 1	000 ÷ 255	255
			7	DIMMER 1 FINE	000 ÷ 255	255
			8	DIMMER 2	000 ÷ 255	255
			9	DIMMER 2 FINE	000 ÷ 255	255
			10	EFFECT No function Effect 1 Effect 2 Effect 3 Effect 4 Effect 5	000 ÷ 045 046 ÷ 087 088 ÷ 129 130 ÷ 171 172 ÷ 213 214 ÷ 255	000

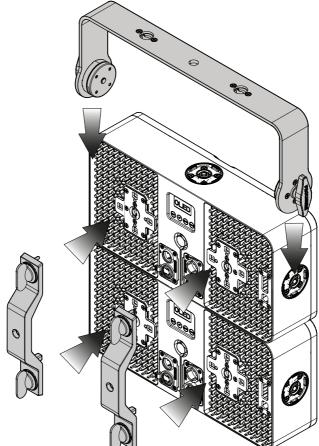
FUNCTION   No function/safe	11	EFFECT SPEED	000 ÷ 255	000
Display on Display 10s Display 20s Display 30s Pilp display on Display 30s Filp display on Display 30s Filp display on Display 60s Filp display on Display 30s		FUNCTION		
Display 10s		No function/safe	000 ÷ 001	
Display 20s   Display 30s   O06 ÷ 007		Display on	002 ÷ 003	
Display 20s   Display 30s   Display 30s   O08 ÷ 009		Display 10s	004 ÷ 005	
Flip display on   010 + 011   012 + 013		Display 20s	006 ÷ 007	
Flip display off		Display 30s	008 ÷ 009	
Key lock on   014 ÷ 015   Ney lock off   016 + 017   Ney lock off   016 + 017   Ney lock off   018 ÷ 019   018 ÷ 019   018 ÷ 019   018 ÷ 019   020 ÷ 021   020 ÷ 021   021   022 ÷ 023   023 × 024 ÷ 025   024 ÷ 025   024 ÷ 025   024 ÷ 025   026 × 029 × 029   026 × 029   026 × 029   026 × 029   027   028 × 029 × 029   029 × 029 × 029   029 ×		Flip display on	010 ÷ 011	
Key lock off   Dimmer curve linear   Dimmer curve securve   O20 + O21		Flip display off	012 ÷ 013	
Dimmer curve linear   Dimmer curve s-curve   O20 + O21		Key lock on	014 ÷ 015	
Dimmer curve s-curve		Key lock off	016 ÷ 017	
Dimmer curve square law   022 ÷ 023   Dimmer speed auto   026 ÷ 027   Dimmer speed fast   028 + 029   Dimmer speed fast   028 + 029   Dimmer speed fast   030 ÷ 031   Dimmer speed slow   032 ÷ 033   White calibration off   034 ÷ 035   White calibration manual   036 ÷ 037   Tungsten emulation on   038 ÷ 039   Tungsten emulation off   040 ÷ 041   000   Led frequency 600hz   042 ÷ 043   Led frequency 1200hz   044 ÷ 045   Led frequency 2000hz   046 ÷ 047   Led frequency 4000hz   050 ÷ 051   Led frequency 4000hz   050 ÷ 051   Led frequency 50hz   052 ÷ 053   Dmx fault blackout   056 ÷ 057   Dmx fault stand alone   058 ÷ 059   Invert mapping on   060 ÷ 061   Invert mapping off   062 ÷ 063   Stand alone master   064 ÷ 065   Stand alone master   066 ÷ 067   Stand alone master   066 ÷ 067   Stand alone master   066 ÷ 067   Stand alone slave   066 ÷ 067		Dimmer curve linear	018 ÷ 019	
Dimmer curve inverse square law   024 ÷ 025   026 + 027   026 + 027   028 + 029   028 + 029   028 + 029   028 + 029   028 + 029   028 + 029   028 + 029   028 + 029   028 + 029   028 + 029   028 + 029   028 + 029   028 + 029   028 + 029   028 + 029   028 + 029   028 + 028   028 +		Dimmer curve s-curve	020 ÷ 021	
Dimmer speed auto		Dimmer curve square law	022 ÷ 023	
Dimmer speed fast   028 ÷ 029   030 + 031   030 + 031   030 + 031   030 + 031   032 ÷ 033   032 ÷ 033   034 + 035   034 + 035   034 + 035   036 + 037   036 + 037   038 + 039   038 + 039   038 + 039   038 + 039   038 + 039   038 + 039   040 + 041   040 + 041   040   040 + 041   040   040 + 041   040   040 + 041   040   040 + 041   040   040 + 045   040 + 045   040 + 045   040 + 045   040 + 045   040 + 045   040 + 045   040 + 045   040 + 045   040 + 047   040 + 045   040 + 047   040 + 045   040 + 047   040 + 045   040 + 047   040 + 045   04		Dimmer curve inverse square law	024 ÷ 025	
Dimmer speed medium   030 ÷ 031   032 ÷ 033   032 + 033   034 ÷ 035   034 ÷ 035   034 ÷ 035   036 ÷ 037   036 ÷		Dimmer speed auto	026 ÷ 027	
Dimmer speed slow   032 ÷ 033   White calibration off   034 ÷ 035   White calibration manual   036 ÷ 037   Tungsten emulation on   038 ÷ 039   12   Tungsten emulation off   040 + 041   000   042 ÷ 043   044 ÷ 045   044 + 045   044 + 045   044 + 045   044 + 045   044 + 045   044 + 047   046   047   048 + 049   049   048 + 049   049			028 ÷ 029	
White calibration off White calibration manual Tungsten emulation on 12 Tungsten emulation off Led frequency 600hz Led frequency 1200hz Led frequency 2000hz Led frequency 4000hz Led frequency 4000hz Led frequency 4000hz Led frequency 500hz Led frequency 500hz Led frequency 4000hz Led frequency 4000hz Led frequency 4000hz Led frequency 500hz Led			030 ÷ 031	
White calibration manual Tungsten emulation on 12 Tungsten emulation off Led frequency 600hz Led frequency 1200hz Led frequency 2000hz Led frequency 4000hz Led frequency 4000hz Led frequency 4000hz Led frequency 4000hz Led frequency 6000hz Led frequency 6000hz Led frequency 5000hz Led frequency 5000hz Led frequency 5000hz Dmx fault hold Dmx fault blackout Dmx fault stand alone Invert mapping on Invert mapping off Stand alone master Stand alone master U64 + 065 Stand alone slave U33 + 037 U33 + 037 U34 + 037 U35 + 037 U36 + 037 U37 + 037 U38			032 ÷ 033	
Tungsten emulation on 038 ÷ 039 12 Tungsten emulation off 040 + 041 000 Led frequency 600hz Led frequency 1200hz Led frequency 2000hz Led frequency 2000hz Led frequency 4000hz Led frequency 600hz Led frequency 600hz Led frequency 600hz Led frequency 5000hz David frequency 5000hz Led frequency 5000hz Led frequency 500hz Led frequency 500hz Dmx fault hold Dmx fault blackout Dmx fault blackout Dmx fault stand alone Invert mapping on Invert mapping off Stand alone master 064 ÷ 065 Stand alone slave 066 ÷ 067				
12 Tungsten emulation off 040 ÷ 041 000 Led frequency 600hz 042 ÷ 043 044 ÷ 045 Led frequency 1200hz 044 ÷ 045 Led frequency 1200hz 046 ÷ 047 Led frequency 4000hz 046 ÷ 047 Led frequency 4000hz 050 ÷ 051 Led frequency 6000hz 050 ÷ 051 Led frequency 25khz 052 ÷ 053 Dmx fault hold 054 ÷ 055 Dmx fault blackout 056 ÷ 057 Dmx fault stand alone 058 * 059 Invert mapping on 060 ÷ 061 Invert mapping off 062 * 063 Stand alone master 064 ÷ 065 Stand alone slave 066 ÷ 067				
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Led frequency 1200hz Led frequency 2000hz Led frequency 4000hz Led frequency 4000hz Led frequency 6000hz Led frequency 6000hz Led frequency 25khz Dmx fault hold Dmx fault blackout Dmx fault stand alone Invert mapping on Invert mapping off Stand alone master Stand alone master U64 ÷ 065 Stand alone master U64 ÷ 065 Stand alone slave U44 ÷ 045 U45 U45 U46 ÷ 047 U47 U47 U48 ÷ 045 U48 ÷ 046 U48 ÷ 047 U48 ÷ 047 U48 ÷ 048 U48 ÷	12			000
Led frequency 2000hz				
Led frequency 4000hz Led frequency 6000hz Led frequency 25khz Dmx fault hold Dmx fault blackout Dmx fault stand alone Invert mapping on Invert mapping off Stand alone master Stand alone master Stand alone slave  048 ÷ 049 050 + 051 052 ÷ 053 054 ÷ 055 056 + 057 066 ÷ 061 062 ÷ 063 064 + 065 065 066 ÷ 067				
Led frequency 6000hz Led frequency 25khz Description Dmx fault hold Dmx fault blackout Dmx fault blackout Dmx fault stand alone Invert mapping on Invert mapping off Stand alone master Stand alone master Stand alone slave  060 ÷ 067  060 ÷ 067				
Led frequency 25khz 052 ÷ 053  Dmx fault hold 054 + 055  Dmx fault blackout 056 ÷ 057  Dmx fault stand alone 058 + 059  Invert mapping on 060 ÷ 061  Invert mapping off 062 + 063  Stand alone master 064 ÷ 065  Stand alone slave 066 ÷ 067				
Dmx fault hold   054 ÷ 055     Dmx fault blackout   056 ÷ 057     Dmx fault stand alone   058 ÷ 059     Invert mapping on   060 ÷ 061     Invert mapping off   062 * 063     Stand alone master   064 ÷ 065     Stand alone slave   066 ÷ 067				
Dmx fault blackout				
Dmx fault stand alone   058 ÷ 059   Invert mapping on   060 ÷ 061   Invert mapping off   062 ÷ 063   Stand alone master   064 ÷ 065   Stand alone slave   066 ÷ 067				
Invert mapping on				
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				
Stand alone slave 066 ÷ 067				
Stand alone effect 2				
Stand alone effect 4 074 ÷ 075				
Stand alone effect 5				
Stand alone static   078 ÷ 079				
Factory default of control functions 254 ÷ 255				

## 13 - ACCESSORIES INSTALLATION

## HANGING BRACKET (CODE SR2IPHB02H)

Hanging bracket are available as included accessories.



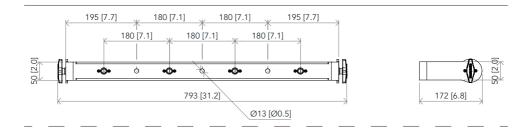


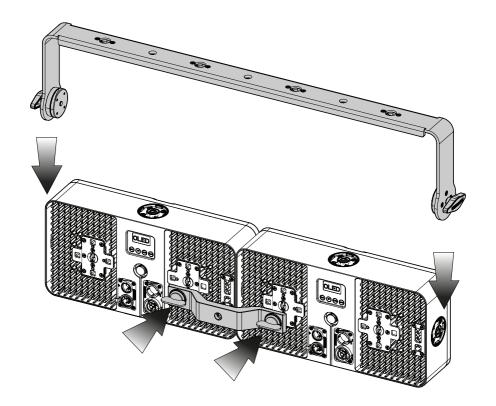
- 1. Using the rear omega bracket SR2IPOS to connect the units.
- 2. Mount the hanging bracket and tighten the screws and the two knobs on the sides for the hanging of two units placed in vertical position.

Fig.8

## HANGING BRACKET (CODE SR2IPHB04H)

Hanging bracket are available as optional accessories.



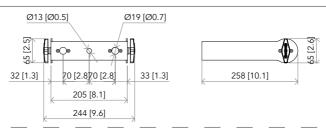


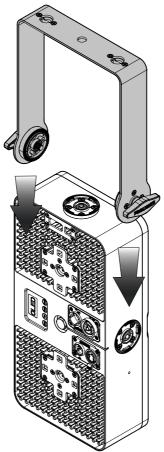
- 1. Using the rear bracket SR2IPOS to connect the units.
- 2. Mount the hanging bracket and tighten the screws and the two knobs on the sides for the hanging of two units placed in horizontal position.

Fig.9

## HANGING BRACKET (CODE SR2IPHB01V)

Hanging bracket are available as optional accessories.





- 1. Using the rear bracket SR2IPOS to connect the units.
- 2. Mount the hanging bracket and tighten the screws and the two knobs on the sides for the hanging a single unit placed in vertical position.

Fig.10

## 14 - MAINTENANCE

## MAINTENANCE AND CLEANING THE PRODUCT

WARNING: Disconnect from the mains before starting any maintenance work

It is recommended to clean the front at regular intervals, from impurities caused by dust, smoke, or other particles to ensure that the light is radiated at maximum brightness.

- For cleaning, disconnect the main plug from the socket. Use a soft, clean cloth moistened with a mild detergent. Then carefully wipe the part dry. For cleaning other housing parts use only a soft, clean cloth. Never use a liquid, it might penetrate the unit and cause damage to it.
- The user must clean the product periodically to maintain optimum performance and cooling. The user may also upload firmware (product software) to the fixture via the DMX signal input port or USB port using firmware and instructions from PROLIGHTS.
- The frequency of such maintenance operations is to be performed according to various factors, such
  as the amount of the use and the condition of the installation environment (air humidity, presence
  of dust, salinity, etc.). It is recommended that the product is subject to annual service by a qualified
  technician for special maintenance involving at least the following procedures:
- General cleaning of internal parts.
- For all the parts subject to friction, using lubricants specifically supplied by PROLIGHTS.
- General visual check of the internal components, cabling, mechanical parts, etc.
- Electrical, photometric and functional checks; eventual repairs.
- Cleaning the lenses. Only use neutral soap and water to clean the lenses, then dry it carefully with a soft, non-abrasive cloth.

WARNING: the use of alcohol or any other detergent could damage the lenses.

- All other service operations on the product must be carried out by PROLIGHTS, its approved service
  agents or trained and qualified personnel.
- It is PROLIGHTS policy to apply the strictest possible calibration procedures and use the best quality materials available to ensure optimum performance and the longest possible component lifetimes. However, optical components are subject to wear and tear over the life of the product, resulting in gradual changes in colours over many thousands of hours of use. The extent of wear and tear depends heavily on operating conditions and environment, so it is impossible to specify precisely whether and to what extent performance will be affected. However, you may eventually need to replace optical components if their characteristics are affected by wear and tear after an extended period of use and if you require fixtures to perform within very precise optical and colour parameters.
- Do not apply filters, lenses or other materials on lenses or other optical components. Use only accessories approved by PROLIGHTS.

#### REPLACING THE FUSE

WARNING: Before replacing the fuse, unplug the product from the mains.

• Remove the old fuse from the housing with a suitable screwdriver (anticlockwise) and replace it with one of the same type and of the same classification (5\*20 TBC-3.15A).

### VISUAL CHECK OF PRODUCT HOUSING

- The parts of the product cover/housing should be checked for eventual damages and breaking start at least every two months. In addition, especially the parts of the front lens holder have to be checked mechanically (by means of movement by the part) if it is firmly fastened to the fixture. If hint of a crack is found on some plastic part, do not use the product until the damaged part will be replaced.
- Cracks or another damages of the cover/housing parts can be caused by the product transportation or manipulation and also ageing process may influence materials.
- This checking is necessary for both fixed installations and preparing product for renting. Any free
  moving parts inside of the product, cracked cover/housing or any part of front lens not sitting properly in place need to be immediately replaced.

## **TROUBLESHOOTING**

Problems	Possible causes	Checks and remedies
Product doesn't power ON	No power to the product	Check that power is switched ON and cables are plugged in.
	• Fuse blown or internal fault	Check if the Fuse is intact and eventually replace it if necessary.     Contact the PROLIGHTS Service or authorized service partner. Do not remove parts and/or covers, or carry out any repairs or service that are not described in this Safety and User Manual unless you have both authorization from PROLIGHTS and the service documentation.
Product reset correctly but does not respond correctly	Bad signal connection	Inspect connections and cables. Fix eventual bad connections. Repair or replace damaged cables.
to the contoller.	Signal connection not terminated	Insert DMX termination plug in signal output socket of the last product on the signal line.
	Incorrect addressing of the product	Check the product address and control settings
	One of the product is defective and is corrupt- ing the signal transmis- sion on the signal line	Unplug the XLR in and out connectors and connect them directly together to bypass one product at a time until normal operation is regained. Once found the error, have that fixture serviced by a qualified technician.
Timeout error after fixture reset.	<ul><li>One or more hardware</li><li>components requires</li><li>mechanical adjustments</li></ul>	Check product stored error messages for more information. Contact PROLIGHTS Service or an authorized service partner.
Mechanical effect loses position	Mechanical hardware require cleaning, adjust- ment or lubrification	Check product stored error messages for more information. Contact PROLIGHTS Service or an authorized service partner.
Light output turn OFF Intermittently	Fixture is too hot	<ul> <li>Check product stored error messages.</li> <li>Allow product to cool.</li> <li>Clean the product and airflow filters.</li> <li>Reduce ambient temperature.</li> </ul>
	Hardware failure (tem- perature sensor, fans, Light source)	Check product stored error messages for more information. Contact. PROLIGHTS Service or an authorized service partner.
General low light intensity	<ul><li>Dirty lens assembly</li><li>Dirty or damaged filters</li></ul>	Clean the fixture regularly.     Install lens assembly properly.

Contact an authorized service center in case of technical problems or not reported in the table can not be resolved by the procedure given in the table.

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