



SunRise 4FLXVW

IP65 modular LED blinder with 4x300W
Variable White + Amber LED sources



USER MANUAL

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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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SAFETY INFORMATION



WARNING!

- See <https://www.prolights.it/product/SUNRISE4FLXVW#download> for installation instructions.
- 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 and residential 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.
- The product has XLR sockets for DMX input and output.
- Connection of the control signal: DMX LINE.
- Notice: this control circuit is not isolated.
- Cumulative leakage current of less than 3.5mA on the control circuit.



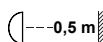
Protection and Warning against electrical shock

- 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.

T_a 45 °C

Max operating ambient temperature (T_a)

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

T_a -20 °C

Minimum operating ambient temperature (T_a)

- Do not operate the fixture if the ambient temperature (T_a) 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_c 70 °C

Temperature of the external surface

- The surface of the fixture can reach up to 70 °C (158 °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.



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 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).



The products to which this manual refers comply with:

- UL 1573 + CSA C22.2 No. 166 - Stage and Studio Luminaires and Connector Strips.
- UL 1012 + CSA C22.2 No. 107.1-16 - Standard for power units other than class 2.



FCC Compliance:

- This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
1. This device may not cause harmful interference, and
 2. This device must accept any interference received, including interference that may cause undesired operation.



Other approvals

- The product meets the safety requirements of the certification procedures of the market in which it is placed and sold.

1 - PACKAGING

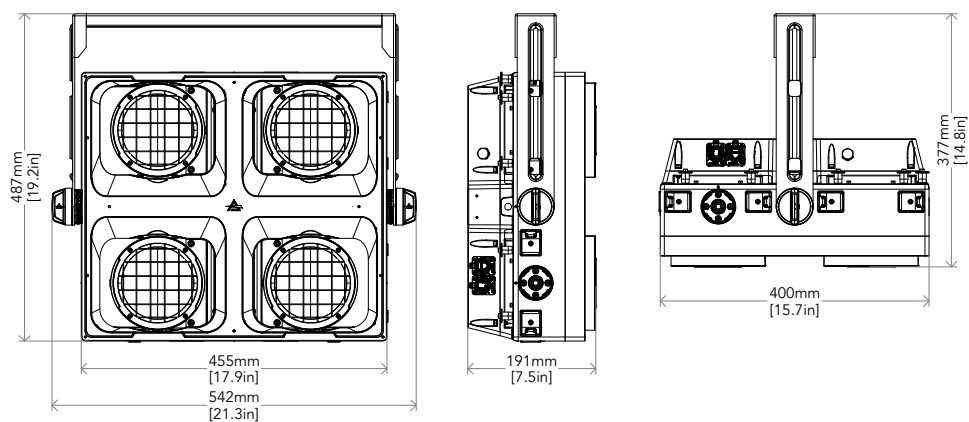
PACKAGE CONTENT

- 1x SUNRISE4FLXVW;
- 1x OS25PLUS;
- 1x SNR4FLXBRKS;
- 1x 1,5 meters 3G1,5mmq power cable (BARE END - SEETRONIC POWERCON TRUE1 IP65 power connector);
- User Manual.

OPTIONAL ACCESSORIES

Check the updated accessories list, description and informations of the product at the following link:
<https://www.prolights.it/product/SUNRISE4FLXVW#accessories>

2 - TECHNICAL DRAWING



Weight: 15,9 kg - 35,05 lbs

Fig. 01

3 - INSTALLATION

MOUNTING

Ensure the supporting structure can safely bear the combined weight of all installed fixtures, clamps, cables, auxiliary equipment, etc., and complies with local regulations.

When suspending the fixture above ground level, secure it with a safety wire rated for the fixture's weight, attaching it to an anchor point on the 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 half-coupler clamps only. Do not use clamps that do not fully encircle the structure when fastened.

NOTE: for the installation guidelines check the following link:

<https://support.musiclights.it/ajx.php?usst=1&docs=61975&file=FLX%20series%20Installation.pdf>

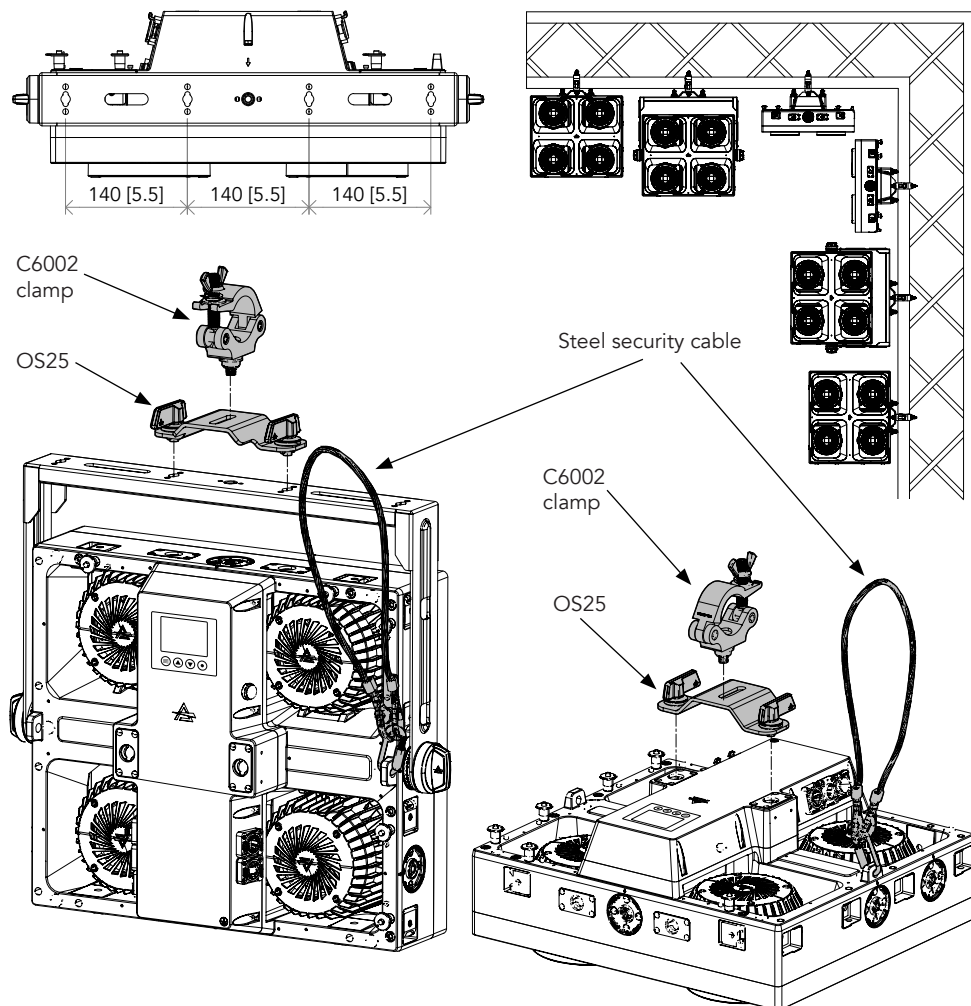


Fig.02

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: 1260W.

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. POWER IN: for connection to the Mains 100-240V~/50-60Hz.
2. DMX IN (5-p XLR): 1 = GND, 2 = sign-, 3 = sign+, 4 N/C, 5 N/C.
3. ETHERCON CONNECTORS IN / OUT signal.
4. DMX OUT (5-p XLR): 1 = GND, 2 = sign-, 3 = sign+, 4 N/C, 5 N/C.
5. GORE VALVE.
6. MALE / FEMALE MECHANICS: for matrix mounting of multiple units.
7. SECURITY PINS: for lock and unlock the mechanics.
8. SAFETY HOLE: for safety cable insertion.
9. USER INTERFACE with display and buttons for access to the control panel functions.
10. SNR4FLXBRKS: Included tiltable bracket for installations.

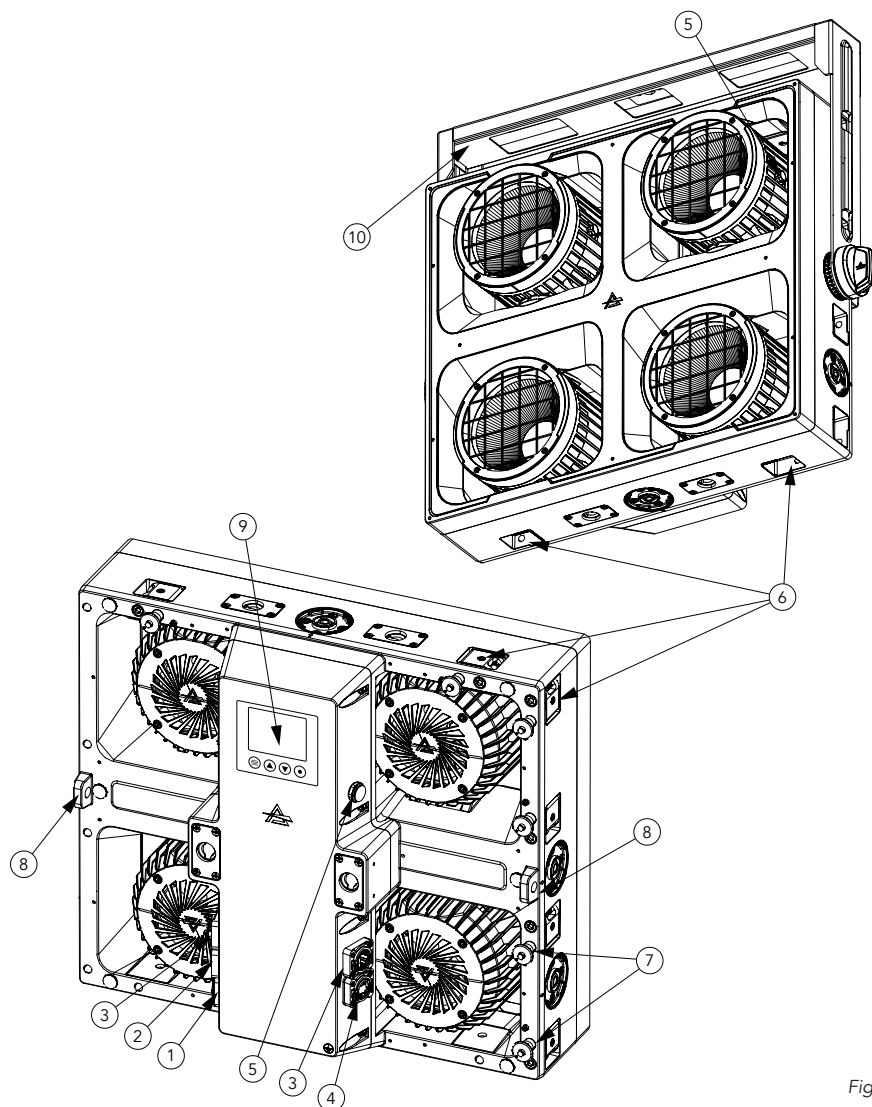


Fig. 03

7 - DMX CONNECTION

CONNECTION OF THE CONTROL SIGNAL: DMX LINE

The product has XLR sockets for DMX input and output.

DMX - INPUT
XLR plug



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

DMX - OUTPUT
XLR socket

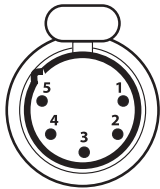


Fig. 04

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

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

Terminate the data link by connecting a 120 Ω termination resistor. If using a splitter, terminate each branch of the link. Install a DMX termination plug on the last fixture in the link.

CONNECTION OF THE DMX LINE

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

The following diagram shows the connection mode:

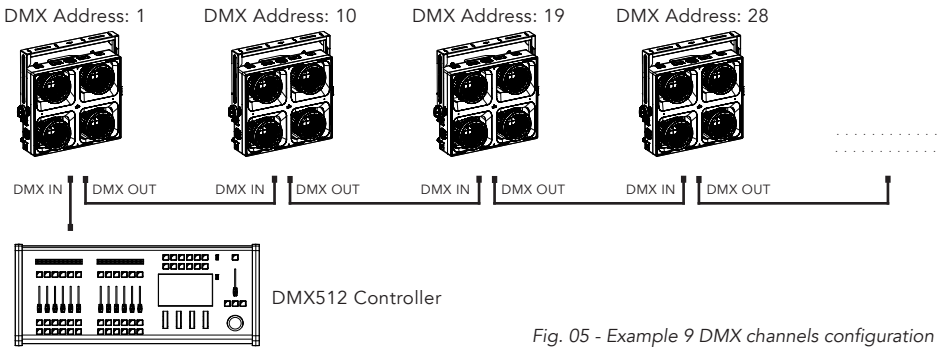
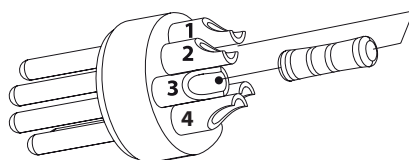
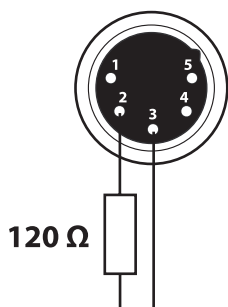


Fig. 05 - Example 9 DMX channels configuration

CONSTRUCTION OF THE DMX TERMINATION

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



Example:
5 pin XLR connector

Fig. 06

DMX ADDRESSING

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. To control multiple fixtures individually, assign a unique starting address to each fixture.

The number of channels used by the fixture depends on the selected DMX mode, so always check the DMX Mode in the MENU before setting the address.

If two fixtures are assigned the same address, they will behave identically. Assigning the same address to multiple fixtures can be helpful for diagnostic purposes and symmetrical control.

DMX addressing is limited to ensure there are enough control channels available for the fixture.

To set the fixture's DMX address:

1. Press MENU to open the main menu.
2. Navigate to the addressing menu, then select the DMX ADDRESS settings.
3. Choose an 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.

ETHERNET CONNECTION

The product is equipped with two 8-pin RJ-45 sockets for Ethernet input/output, allowing for a simple daisy-chain connection to the network. It supports control via ArtNet/sACN communication protocols. Use a Category 5 network cable (with four twisted wire pairs) and standard RJ-45 connectors.

ETHERNET OPERATION

section in this document for detailed information about setting parameters on the fixture, including Protocol, Net, Subnet, Universe, Start Channel, IP Address, and Ethernet to DMX (No/Yes).

- IP addresses recommended: 002.xxx.xxx.xxx or 010.xxx.xxx.xxx.
- The submask net is fixed at 255.0.0.0.

ETHERNET TO DMX OPERATIONS

Refer to the MENU STRUCTURE section in this document for detailed information.

This function enables the fixture to receive an Ethernet signal and retransmit it onto a DMX line through its onboard XLR output.

- An Ethernet protocol (Artnet, sACN or others available) has to be enabled from Ethernet menu at first fixture. **Ensure that the wireless receiver is set to OFF when using Ethernet communication.**
- Enable the option Ethernet To DMX choosing which fixture needs to be retransmitted (Main Fixture or Pixel Engine) from the Ethernet menu at the first product (connected to the Ethernet) in the signal chain, next products have standard DMX setting.
- Connect the Ethernet input of the first product in the data chain with the network. Connect the DMX output of this product with the input of the next product until all products are connected to the DMX chain.
- Caution: At the last product, the DMX chain has to be terminated with a terminator. Solder a 120 Ω resistor between Signal(-) and Signal(+) into a XLR-plug and connect it in the DMX-output of the last product.

OPERATION AS A WIRELESS TRANSMITTER

SUNRISE4FLXVW can be used as wireless transmitter to transmit DMX signal to different wireless receivers. To use SUNRISE4FLXVW as wireless transmitter, please follow the procedure below:

1. Push ENTER button until you show CONNECT on display, then press ENTER button to confirm.
 2. Use UP/DOWN buttons for select WIRELESS, then press ENTER to confirm.
 3. Push ENTER button on CRMX ON/OFF function and enable it to ON.
 4. Select CRMX mode and set it on Transmitter (please note that CRMX mode will be available only if CRMX ON/OFF is set to ON).
 5. Ensure that the receiver units are not connected to any other transmitter. Please refer to "Reset the receiver" paragraph.
 6. Enable TX LINK to ON to link transmitter to receivers (please note that TX LINK will be available only if CRMX mode is set to Transmitter).
- The transmitter scans for all unlinked receivers for a period of about 5 seconds.
 - If the connection fails, check the position of the receiver.
 - The wireless icon on the receiver display indicates the received signal strength.

Unlinking the transmitter

Follow the procedure below to unlink the transmitter from all receivers connected with the unit.

1. Push ENTER button until you show CONNECT on display, then press ENTER button to confirm.
 2. Use UP/DOWN buttons for select Wireless, then press ENTER to confirm.
 3. Enable TX UNLINK to ON 8 (please note that TX UNLINK will be available only if CRMX mode is set to Transmitter).
- All connected receivers will be unlinked.

CHANGING TX PROTOCOL

To change TX protocol, use the following procedure:

1. Perform "TX Unlink" on SUNRISE4FLXVW.
2. Perform an "RX Unlink" on the device you want to connect as a receiver.
3. Set the TX protocol you want to use (G3,G4S,CRMX) on SUNRISE4FLXVW.
4. Power Cycle SUNRISE4FLXVW and restart it
5. Perform a "TX Link" on SUNRISE4FLXVW to link to the receiver

IN TO CRMX

This function enable or disable the transmission through wireless of the DMX signal from the transmitter side to the receiver.

Any incoming signal (ArtNet, sACN or DMX) is retransmitted through wireless. It's possible to choose retransmission of Main Fixture or Pixel Engine.

If the SUNRISE4FLXVW protocol selected is ArtNet / sACN, the CRMX module will retransmit the DMX values contained in the ArtNet / sACN signal received from the SUNRISE4FLXVW.

NOTE: Artnet and sACN have higher priority on DMX if they are connected to transmitter.

NOTE: Do not use IN TO CRMX and ETH TO DMX simultaneously, this will cause data conflict on DMX output signal.

OPERATION AS A WIRELESS RECEIVER

SUNRISE4FLXVW can be used as wireless receiver connected to a wireless transmitter.

To use SUNRISE4FLXVW as wireless receiver, please follow the procedure below:

1. Push ENTER button until you show CONNECT on display, then press ENTER button to confirm.
2. Use UP/DOWN buttons for select Wireless, then press ENTER to confirm.
3. Push ENTER button on CRMX ON/OFF function and enable it to ON.
4. Select CRMX mode and set it on Receiver (please note that CRMX mode will be available only if CRMX ON/OFF is set to ON).
5. Enable RX RESET to ON to reset the receiver (please note that RX RESET will be available only if CRMX mode is set to Receiver).
6. On the transmitter, enable TX LINK to ON to link transmitter to the receivers.
7. If the connection is successful and DMX input is available the display the display on the receiver unit will show the DMX address. If DMX signal is not available, the display will show "No signal" but keeps the transmitter linked.
8. If the connection fails, check the position of the receiver.
9. The wireless icon on the receiver display indicates the received signal strength.

Reset the receiver

Follow the procedure below to reset the receiver.

1. Push MENU button until you show CONNECT on display, then press ENTER button to confirm.
 2. Use UP/DOWN buttons for select Wireless, then press ENTER to confirm.
 3. Enable RX RESET to ON.
- The wireless icon on the receiver display indicates the received signal strength.

CRMX TO DMX (RX)

This function enable or disable the retransmission of the wireless DMX signal received through the DMX port on the receiver side.

8 - CONTROL PANEL

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

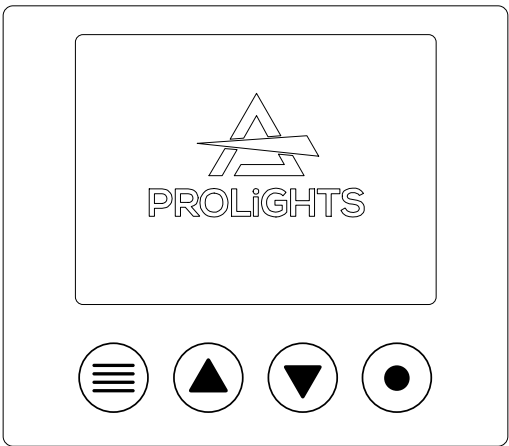


Fig. 07

DISPLAY AND BUTTONS LAYOUT

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

	Used to access the menu tree and to return to the upper level. Hold to go back to the home screen.
	Browse upwards through the menu list and increases the numeric value displayed.
	Browse downwards through the menu list and decreases the numeric value displayed.
	Used to confirm the displayed value, or activate the displayed function.

SHORTCUT

Keys	Mode	Description
UP + DOWN (hold 3 sec in home screen)	FLIP DISPLAY	Directly flip display without enter inside menu
ENTER (hold 3 sec in home screen)	STANDALONE MENU	Quick access to enter the Stand Alone menu.
DOWN (hold 3 sec in home screen)	FACTORY RELOAD MENU	Quick access to enter the Factory Reload menu.
MENU + UP (While powering on)	FACTORY DEFAULT	Restore default values - Hours and calibration not affected
UP (hold 3 sec in home screen)	RX RESET MENU	Quick access to enter the RX RESET menu (YES/NO).

9 - MENU STRUCTURE

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

MENU: CONNECT

LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	DESCRIPTION
ADDRESS	FIXTURE	DMX	1-512		Set DMX Address for Main fixture.
		ARTNET			
		SACN			
	PIXELS	FOLLOW FIXTURE	1-512		Set DMX Address for pixels.
		DMX			
		ARTNET			
		sACN			
DMX MODE	DWE 1	CCT (2700K-6500K)			Set DMX Mode.
	DWE 4				
	DWE 1+				
	CCT				
	RAW				
	STROBE				
	STANDARD 8 bit				
	STANDARD 16 bit				
	EXTENDED	PIXEL LAYER: OFF DIRECT 4 DIRECT 8 DIRECT CCT			
	EXTENDED 16 bit				
WIRELESS	CRMX ON/OFF	ON			Enable the wireless card.
		OFF			
	CRMX MODE	TX CRMX			Allows configuration of the wireless card as either a Transmitter or Receiver. G4s and G3 are supported protocols for connection with Wireless Solution products.
		TX G4S			
		TX G3			
		RX			
	TX LINK	ON			Enables the transmission link when the unit is set as a Transmitter.
		OFF			
	TX UNLINK	ON			Disconnects the transmitter from all connected receivers. TX Unlink can only be used when the unit is in Transmitter mode in CRMX settings.
		OFF			
	RX RESET	ON			Disconnects the CRMX card, set as a Receiver, from any connected transmitters.
		OFF			
	IN TO CRMX (TX)	ON			Enable/Disable the transmission of the DMX from the transmitter to the receiver via CRMX
		OFF			

MENU: CONNECT

LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	DESCRIPTION	
WIRELESS	CRMX TO DMX (RX)	ON			Enable/Disable the retransmission of the DMX from the receiver to the other units connected by cable to the receiver itself	
		OFF				
	LINKING KEY	ON	SET LINKING KEY	8 digit code	RX MODE: Linking key section available only in RX mode. TX MODE: When in TX mode, message on screen: "Linking Key available only in RX Mode"	
		OFF				
	UNIVERSE METADATA	UNIVERSE NAME	xxx			RX Mode: received from TX; TX CRMX Mode: default first 16 characters of Model Name: (DEVICELABEL-Last 4 digit of RDM UID)
			UNIVERSE COLOR	RED	Universe Color can be set only if CRMX Mode@TX; If CRMX Mode@RX, Universe Color shows the one set on the TX	
		FIRE				
		YELLOW				
		GREEN				
		EMERALD				
OCEAN						
BLUE						
DEEP PURPLE						
COOL WHITE						
LINK STRENGTH	** %			Show Wireless quality by percentage		
CRMX SOFTWARE VERSION	TimoFX: Vx.x.xx			Show firmware version of TimoFX module		
ETHERNET SETTINGS	ARTNET SETTINGS	FIXTURE	IP ADDRESS	xxx.xxx.xxx.x	Set IP Address for ArtNet usage.	
			SUBNET MASK	255.xxx.xxx.x	Set SubNet Mask for ArtNet usage.	
			NET	0-127	Set Net used for ArtNet, value from 0 to 127	
			SUBNET	0-15	Set SubNet used for ArtNet, value from 0 to 15	
			UNIVERSE	0-15	Set Universe used for ArtNet, value from 0 to 15	
		PIXELS	IP ADDRESS	xxx.xxx.xxx.x	Set IP Address for ArtNet usage.	
			SUBNET MASK	255.xxx.xxx.x	Set SubNet Mask for ArtNet usage.	
			NET	0-127	Set Net used for ArtNet, value from 0 to 127	
			SUBNET	0-15	Set SubNet used for ArtNet, value from 0 to 15	
			UNIVERSE	0-15	Set Universe used for ArtNet, value from 0 to 15	
	sACN SETTINGS	FIXTURE	IP ADDRESS	xxx.xxx.xxx.x	Set IP Address for ArtNet usage.	
			UNIVERSE	1-16	Toggle and Set Merge mode for sACN.	
			MERGE MODE	OFF		
				HTP		
				LTP		

MENU: CONNECT

LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	DESCRIPTION
ETHERNET SETTINGS		PIXELS	IP ADDRESS	xxx.xxx.xxx.x	Set IP Address for ArtNet usage.
			UNIVERSE	1-16	
			MERGE MODE	OFF	Toggle and Set Merge mode for sACN.
				HTP	
				LTP	
	ETHERNET TO CRMX	ON			Enables retransmission of the Ethernet signal over CRMX.
		OFF			
	ETHERNET TO DMX	ON			Enables retransmission of the Ethernet signal over a standard DMX cable. A slight time delay may occur on the DMX line.
		OFF			

MENU: SETUP

LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	DESCRIPTION
SCREEN	BACKLIGHT	ALWAYS ON			Sets the time after which the display will automatically turn off when inactive.
		10S			
		20S			
		30S			
	FLIP DISPLAY	ON			Enables the display to be rotated by 180°.
		OFF			
	KEY LOCK	ON			Lock the buttons on the control panel with a password. To access the user menu, enter the following button sequence (password): UP, DOWN, UP, DOWN, ENTER.
		OFF			
	DISPLAY VALUE	RAW DATA			Choose how to show datas on Stand Alone Modes: In percentage mode values will be shown as 0-100%. In Raw Data mode values will be shown as 0-255.
		PERCENTAGE			
	TEMP. UNIT	°C			
		°F			
DIMMER	DIMMER CURVE	LINEAR			Check pag.22 for further details
		S-CURVE			
		SQUARE LAW			
		INVERSE SQUARE LAW			
		HIGH RES@LOW			
		INCANDESCENT			
	DIMMER SPEED	AUTO			Check pag.23 for further details
		FAST			
		MEDIUM			
		SLOW			
		INCANDESCENT			
OFF					

MENU: SETUP

LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	DESCRIPTION	
DIMMER	DIMMER END	FADE OFF@END			Defines how the light turns off: FADE OFF@END for a smooth fade-out, or SNAP OFF@END for an instant off.	
		SNAP OFF@END				
	TUNGSTEN EMULATION	ON				
OFF						
FIXTURE	FAN MODE	CONSTANT OUTPUT	AUTO	Check pag.22 for further details		
			HIGH			
			SILENT1			
			SILENT2			
			OFF			
		DYNAMIC OUTPUT	AUTO			
			HIGH			
			SILENT1			
			SILENT2			
			OFF			
	DMX FAULT	HOLD			Defines fixture behavior on DMX signal loss: HOLD (keep last state), BLACKOUT (turn off), STAND ALONE (run internal program), or EMERGENCY (activate emergency mode with white output).	
		BLACKOUT				
		STAND ALONE				
		EMERGENCY				
	INVERT MAPPING	OFF				
		ON				
USER SETTINGS	PRESET 1	SAVE	Allows users to store all fixture settings, similar to a configuration file. Up to 5 presets can be saved. Check pag.23 for further details			
	PRESET 2					
	PRESET 3	RECALL				
	PRESET 4	DELETE				
	PRESET 5					
TRANSFER SETTING	WITHOUT DMX ADDRESS			Transfer settings from the current fixture to another fixture of the same model using the DMX protocol. If a signal from another source is present, the Transfer Configuration function will not be available.		
	WITH DMX ADDRESS					

MENU: ADVANCED

LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	DESCRIPTION
LED FREQUENCY	1000HZ				Select PWM frequency. NOTE: Using higher LED Frequency color accuracy may be slightly compro- mised at low level of dimmer.
	2000HZ				
	4000HZ				
	6000HZ				
	25KHZ				
TEST	LED 1				The device will perform a sequence to test the selected function.
	LED 2				
	ALL				
FACTORY RELOAD	BASIC	OFF			Default of all parameters excepted ETHERNET section
		ON			
	STANDARD	OFF			Default of all parameters excepted Calibration
		ON			
	2 LITE	OFF			As Factory Reload BASIC but set by default: Dimmer Curve@Incandescent; Dimmer Speed@Incandescent; Tungsten Emulation@ON
		ON			
	USER PRESET	OFF			Delete all USER PRESETS stored
		ON			

MENU: INFORMATIONS

LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	DESCRIPTION
FIXTURE TIME	FIXTURE HOURS	TOTAL	<65535H>		View informations about product operating lifetime. Fixture Hours is countered based on general operation time. Hours are countered since Power is plugged in. Source Hours is countered based on LED Activity time
		PARTIAL	<65535H>		
	CURRENT HOURS	TOTAL	<65535H>		
		PARTIAL	<65535H>		
	SOURCE HOURS	TOTAL	<65535H>		
		PARTIAL	<65535H>		
	AC POWER ON CYCLE	TOTAL	<65535H>		
		PARTIAL	<65535H>		
	MAINTENANCE TIME	ELAPSED TIME			
ALERT PERIOD		10 - 1000			
POWER CONS.	** W				Show estimated power consumption
TEMP.	LED1 xx C°				
	LED2 xx C°				
FAN SPEED	FAN1 [...]				Show all FAN speeds.
CHANNEL VALUE					Show all Channel values as a list, value shown depends on DMX Mode
ERROR MESSAGE					Show error message
DEVICE LABEL	SUNRISE4FLXVW				Show RDM Label.
DEVICE MODEL	SUNRISE4FLXVW				Show RDM fixture model
RDM UID	15D0*****				Show RDM UID of the fixture.
SOFTWARE VERSION	V1.0.00...				Show firmware version of the fixture

MENU: STAND ALONE

LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	DESCRIPTION
MASTER/SLAVE	MASTER DMX				
	MASTER NO DMX				
	SLAVE				
CCT	DIMMER	0-255			Default value: 255
	CCT	From 2700K to 6500K			Default value: 3200K
WHITE PRESETS	2700K	DIMMER: 0-255			Default values: Dimmer@255
	3200K				
	3500K				
	4000K				
	4500K				
	5000K				
	5600K				
	6000K				
	6500K				
MANUAL COLORS	DIMMER	0-255			Default value: 255
	WARM WHITE	0-255			Default value: 255
	COLD WHITE	0-255			Default value: 255

DIMMER CURVES

Six dimming modes are available:

1. **LINEAR** - Light intensity increases proportionally to the DMX value, creating a linear perception.
2. **S-CURVE** - Light intensity is finer at low and high levels, with coarser control at mid-levels.
3. **SQUARE LAW** - Light intensity is finer at low levels and becomes coarser at higher levels.
4. **INVERSE SQUARE LAW** - Light intensity is coarser at low levels and finer at higher levels.
5. **HIGHRES@LOW** - Provides very fine control at low light intensities, with coarser control at medium and high levels.
6. **INCANDESCENT** - Emulates the behaviour of an incandescent lamp.

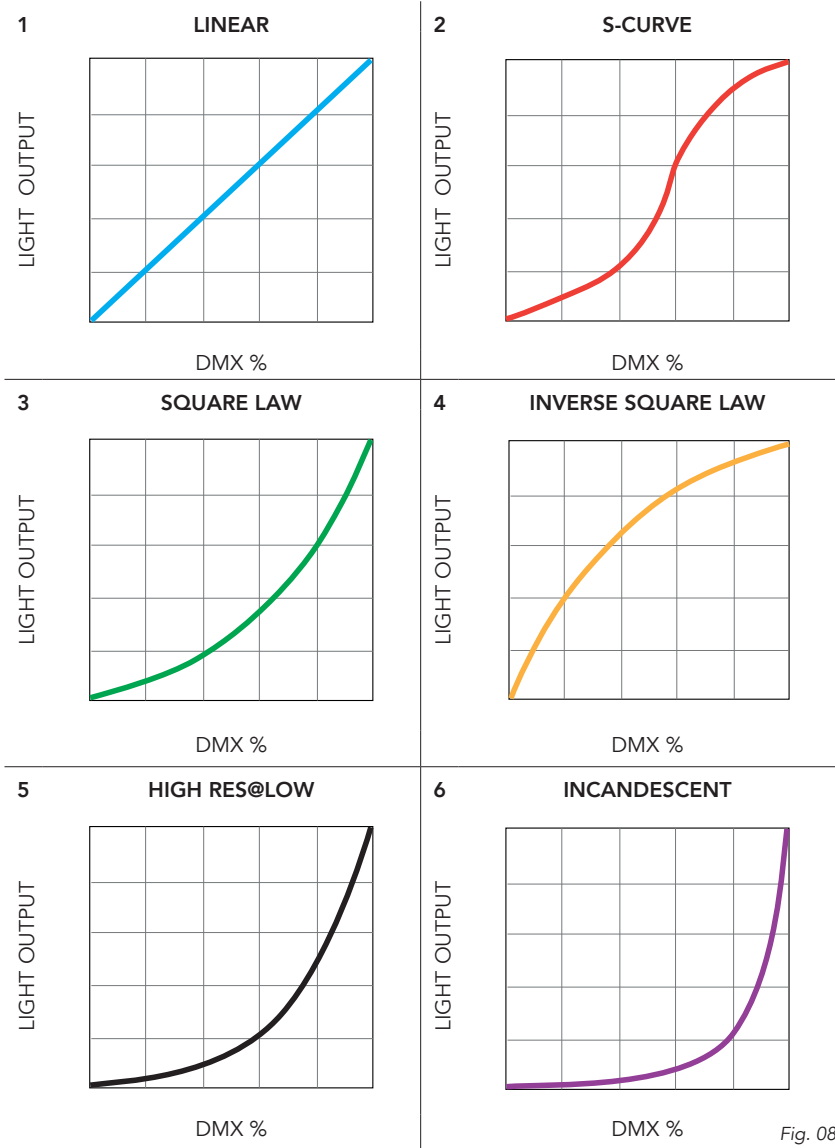


Fig. 08

DIMMER SPEEDS

- Five dimming speeds are available:
- 1. **AUTO** - When the DMX value changes by more than 50 DMX values, the intensity will instantly adjust to the new value. For changes less than 50 DMX values, the fast dimming curve will be applied.
 - 2. **FAST** - Indicates the fast speed dimming curve. Refer to the diagram for reference.
 - 3. **MEDIUM** - Indicates the medium speed dimming curve. Refer to the diagram for reference.
 - 4. **SLOW** - Indicates the slow dimming curve. Refer to the diagram for reference.
 - 5. **OFF** - The intensity will immediately adjust to the new value (essentially no delay effect).
 - 6. **INCANDESCENT** - Emulates the behaviour of an incandescent lamp.

DIMMER SPEED BEHAVIOUR

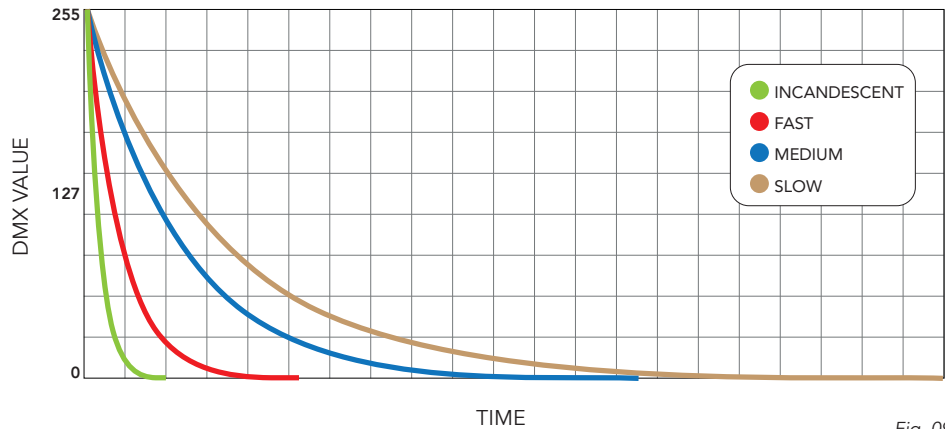


Fig. 09

FAN MODE

MODE		MAX POWER	FAN SPEED
Constant Output	Auto	100%	Variable from 0% to 100% according to the led temperature to keep constant output.
	High	100%	Fixed Speed: 2400 RPM
	Off	20%	Fixed Speed: 0 RPM
	Silent 1	60%	Fixed Speed: 1800 RPM
	Silent 2	40%	Fixed Speed: 1000 RPM
Dynamic Output	Auto	100%	Variable from 0% to 100% according to the led temperature to keep constant output.
	High	Up to 100%	Fixed Speed: 2400 RPM
	Off	Starts from 100% Max drop -80%	Fixed Speed: 0 RPM
	Silent 1	Starts from 100% Max drop -40%	Fixed Speed: 1800 RPM
	Silent 2	Starts from 100% Max drop -60%	Fixed Speed: 1000 RPM

NOTE

Fan settings through the "Control Channel" are saved permanently on the device. They can be changed again via the "Control Channel" or through the menu;

USER SETTINGS

This function allows the fixture to store and manage custom settings, which are saved as user presets. Factory default settings will not overwrite these saved presets, preserving each user's configuration.

- **SAVE** - Available when a preset slot is empty, enabling users to save the current fixture settings into that slot. Up to five presets can be saved for quick recall of different configurations.
- **RECALL** - Loads the settings stored in a selected preset slot, applying them to the fixture and making it easy to switch between saved configurations as needed.
- **DELETE** - Clears the selected preset slot, freeing it up for a new save. Deleting a preset does not impact any other saved presets or factory settings.

MASTER/SLAVE

The MASTER/SLAVE function enables the fixture to operate in standalone mode, where it must be set to MASTER. When configured correctly, this allows one fixture to control multiple fixtures in a daisy chain setup, ensuring synchronized operation. Below are the available modes:

- **MASTER DMX** - The fixture operates as the master, with standalone mode active, and transmits the same standalone functionality via DMX to other fixtures in the daisy chain.
- **MASTER NO DMX** - The device works as master but does not transmit the DMX signal to the other devices connected in the daisy chain.
- **SLAVE** - The fixture remains in standby, waiting to receive a signal from another device set to MASTER DMX. If a standalone mode is selected on the fixture, it will automatically switch to MASTER NO DMX.saved presets or factory settings.

10 - DMX CHARTS

RDM Model ID: 0xD181

RDM Personality ID List

ID	DMX Modes	Footprint
1	DWE 1	1 ch
2	DWE 4	4 ch
3	DWE 1+	5 ch
4	CCT	4 ch
5	RAW	6 ch
6	STROBE	8 ch
7	STANDARD 8 bit	9 ch
8	STANDARD 16 bit	13 ch
9	EXTENDED	15 ch
10	EXTENDED 16 bit	18 ch

RDM Personality ID List

ID	Pixel Engine	Footprint
1	DIRECT 8	8 ch
2	DIRECT 16	16 ch
3	DIRECT CCT	12 ch

DMX MODES

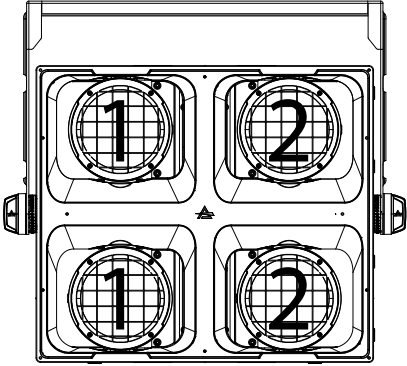
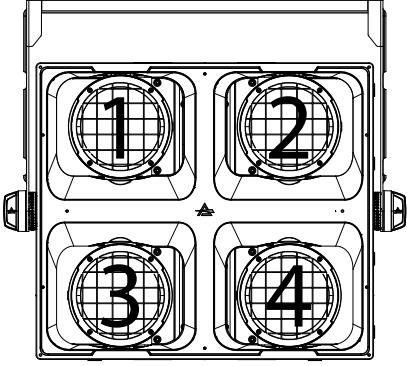
Ch	DWE 1	DWE 4	DWE 1+	CCT	RAW	STROBE
1	Dimmer	Dimmer 1	Dimmer	Dimmer	Dimmer	Master Dim.
2		Dimmer 2	CCT	Strobe	Strobe	Dimmer 1
3		Dimmer 3	Dim. Curve	CCT	Warm White	Dimmer 2
4		Dimmer 4	Dim. Speed	Control	Cold White	Strobe
5			Tungsten Em.		Amber	Str. Duration
6					Control	Str. Rate
7						CCT
8						Control
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						

DMX MODES

Ch	STANDARD 8 bit	STANDARD 16 bit	EXTENDED	EXTENDED 16 bit
1	Master Dim.	Master Dim.	Master Dim.	Master Dim.
2	Dimmer 1	Master Dim.Fine	Strobe	Master Dim.Fine
3	Dimmer 2	Strobe	Strobe Duration	Strobe
4	Strobe	Dimmer 1	Strobe Rate	Strobe Duration
5	CCT	Dimmer 1 Fine	Dimmer 1	Strobe Rate
6	Dimmer Curve	CCT 1	CCT 1	Dimmer 1
7	Dimmer Speed	Dimmer 2	Dimmer 2	Dimmer 1 Fine
8	Tungsten Em.	Dimmer 2 Fine	CCT 2	CCT 1
9	Control	CCT 2	Effects	Dimmer 2
10		Dimmer Curve	Effect Speed	Dimmer 2 Fine
11		Dimmer Speed	Dimmer Curve	CCT 2
12		Tungsten Em.	Dimmer Speed	Effects
13		Control	Tungsten Em.	Effect Speed
14			Control	Dimmer Curve
15			Xfade To Pixel	Dimmer Speed
16				Tungsten Em.
17				Control
18				Xfade To Pixel

PIXEL ENGINE

Ch	DIRECT 4	DIRECT 8	DIRECT CCT
1	Warm White 1	Warm White 1	Dimmer 1
2	Cold White 1	Warm White 1 Fine	CCT 1
3	Warm White 2	Cold White 1	CCT 1 Fine
4	Cold White 2	Cold White 1 Fine	Dimmer 2
5	Warm White 3	Warm White 2	CCT 2
6	Cold White 3	Warm White 2 Fine	CCT 2 Fine
7	Warm White 4	Cold White 2	Dimmer 3
8	Cold White 4	Cold White 2 Fine	CCT 3
9		Warm White 3	CCT 3 Fine
10		Warm White 3 Fine	Dimmer 4
11		Cold White 3	CCT 4
12		Cold White 3 Fine	CCT 4 Fine
13		Warm White 4	
14		Warm White 4 Fine	
15		Cold White 4	
16		Cold White 4 Fine	

MAIN MODES	
PIXEL ENGINE	

CHANNEL DEFINITION

Dimmer

Function	8 bit value		16 bit value		Note
	From	To	From	To	
Dimmer	0	255	0	65535	Default @ 0 (Linear Dimmer 0 - 100%)

Colors (WARM WHITE - COLD WHITE)

Function	8 bit value		16 bit value		Note
	From	To	From	To	
Color	0	255	0	65535	Linear 0 - 100% Default @ 255 (8bit) / 65535 (16bit)

Strobe

Function	8 bit value		16 bit value		Note
	From	To	From	To	
Open	0	4	-	-	Default @ 255
Strobe (slow to fast)	5	44	-	-	
Open	45	46	-	-	
Pulse In (slow to fast)	47	86	-	-	
Open	87	88	-	-	
Pulse Out (slow to fast)	89	128	-	-	Random flash on all fixture
Close	129	130	-	-	
Random (slow to fast)	131	170	-	-	
Open	171	172	-	-	Flash on random pixels
Random single pixels (slow to fast)	173	212	-	-	
Open	213	214	-	-	Flash on low light
Spikers (slow to fast)	215	254	-	-	
Open	255	255	-	-	

Strobe Duration

Function	8 bit value		16 bit value		Note
	From	To	From	To	
0ms to 990ms	0	255	-	-	Default @ 0

Strobe Rate

Function	8 bit value		16 bit value		Note
	From	To	From	To	
Rate off	0	5	-	-	Default @ 0
Slow (0,3Hz) to fast (25Hz)	6	255	-	-	

CCT (2700K - 6500K)

Function		8 bit value		16 bit value		Note
CCT(K) From	CCT(K) To	From	To	From	To	
2700	2800	0	7	0	1725	Default @ 0
2800	2900	7	13	1725	3449	
2900	3000	13	20	3449	5174	
3000	3100	20	27	5174	6898	
3100	3200	27	34	6898	8623	
3200	3300	34	40	8623	10348	
3300	3400	40	47	10348	12072	
3400	3500	47	54	12072	13797	
3500	3600	54	60	13797	15521	
3600	3700	60	67	15521	17246	
3700	3800	67	74	17246	18971	
3800	3900	74	81	18971	20695	
3900	4000	81	87	20695	22420	
4000	4100	87	94	22420	24144	
4100	4200	94	101	24144	25869	
4200	4300	101	107	25869	27594	
4300	4400	107	114	27594	29318	
4400	4500	114	121	29318	31043	
4500	4600	121	128	31043	32768	
4600	4700	128	134	32768	34492	
4700	4800	134	141	34492	36217	
4800	4900	141	148	36217	37941	
4900	5000	148	154	37941	39666	
5000	5100	154	161	39666	41391	
5100	5200	161	168	41391	43115	
5200	5300	168	174	43115	44840	
5300	5400	174	181	44840	46564	
5400	5500	181	188	46564	48289	
5500	5600	188	195	48289	50014	
5600	5700	195	201	50014	51738	
5700	5800	201	208	51738	53463	
5800	5900	208	215	53463	55187	
5900	6000	215	221	55187	56912	
6000	6100	221	228	56912	58637	
6100	6200	228	235	58637	60361	
6200	6300	235	242	60361	62086	
6300	6400	242	248	62086	63810	
6400	6500	248	255	63810	65535	

Dimmer Curve

Function	8 bit value		16 bit value		Note
	From	To	From	To	
No Function - Current Preset from Menu	0	29	-	-	Default @ 0 Temporarily overrides Dimmer Curve settings from menu
LINEAR	30	59	-	-	
S-CURVE	60	89	-	-	
SQUARE LAW	90	119	-	-	
INVERSE SQUARE LAW	120	149	-	-	
HIGH RES@LOW	150	179	-	-	
INCANDESCENT	180	209	-	-	
Reserved	210	255	-	-	

Dimmer Speed

Function	8 bit value		16 bit value		Note
	From	To	From	To	
No Function - Current Preset from Menu	0	29	-	-	Default @ 0 Temporarily overrides Dimmer Speed settings from menu
AUTO	30	59	-	-	
FAST	60	89	-	-	
MEDIUM	90	119	-	-	
SLOW	120	149	-	-	
INCANDESCENT	150	179	-	-	
OFF	180	209	-	-	
Reserved	210	255	-	-	

Tungsten Emulation

Function	8 bit value		16 bit value		Note
	From	To	From	To	
No Function - Current Preset from Menu	0	29	-	-	Default @ 0 Works only with CCT <3500K
ON	30	59	-	-	
OFF	60	89	-	-	
Reserved	90	255	-	-	

Crossfade from CW/WW to Pixel Engine

Function	8 bit value		16 bit value		Note
	From	To	From	To	
Linear Crossfade	0	255	0	65535	Default @ 0 Crossfade from Color Layer to Pixel Engine

Effects

Function	8 bit value		16 bit value		Note
	From	To	From	To	
No Function	0	9	-	-	Default @ 0
Effect 1	10	19	-	-	
Effect 2	20	29	-	-	
Effect 3	30	39	-	-	
Effect 4	40	49	-	-	
Effect 5	50	59	-	-	
Effect 6	60	69	-	-	
Effect 7	70	79	-	-	
Effect 8	80	89	-	-	
Effect 9	90	99	-	-	
Effect 10	100	109	-	-	
Effect 11	110	119	-	-	
Effect 12	120	129	-	-	
Reserved	130	255	-	-	

Effects Speed

Function	8 bit value		16 bit value		Note
	From	To	From	To	
CW from fast to slow	0	127	-	-	Default @ 0
Stop	128	128	-	-	
CCW from slow to fast	129	255	-	-	

Control Channel

Function		8 bit value		16 bit value		Note
		From	To	From	To	
No Function / Safe		0	1	-	-	Default @ 0
DISPLAY	ON	2	3	-	-	Hold 3s to take function
	10s	4	5	-	-	
	20s	6	7	-	-	
	30s	8	9	-	-	
FLIP DISPLAY	ON	10	11	-	-	
	OFF	12	13	-	-	
KEY LOCK	ON	14	15	-	-	
	OFF	16	17	-	-	
DIMMER CURVE	LINEAR	18	19	-	-	
	S-CURVE	20	21	-	-	
	SQUARE LAW	22	23	-	-	
	INVERSE SQUARE LAW	24	25	-	-	
	HIGH RES@LOW	26	27	-	-	
	INCANDESCENT	28	29	-	-	

Control Channel

Function		8 bit value		16 bit value		Note
		From	To	From	To	
DIMMER SPEED	AUTO	30	31	-	-	
	FAST	32	33	-	-	
	MEDIUM	34	35	-	-	
	SLOW	36	37	-	-	
	INCANDESCENT	38	39	-	-	
	OFF	40	41	-	-	
DIMMER END	FADE OFF END	42	43	-	-	
	SNAP OFF END	44	45	-	-	
LED FREQUENCY	1000Hz	46	47	-	-	
	2000HZ	48	49	-	-	
	4000HZ	50	51	-	-	
	6000HZ	52	53	-	-	
	25KHZ	54	55	-	-	
DMX FAULT	HOLD	56	57	-	-	
	BLACKOUT	58	59	-	-	
	STAND ALONE	60	61	-	-	
	EMERGENCY	62	63	-	-	
TUNGSTEN EMULATION	ON	64	65	-	-	
	OFF	66	67	-	-	
INVERT MAPPING	ON	68	69	-	-	
	OFF	70	71	-	-	
STANDALONE	MASTER	72	73	-	-	
	MASTER NO DMX	74	75	-	-	
	SLAVE	76	77	-	-	
	CCT	78	79	-	-	
	WHITE PRESETS	80	81	-	-	
	MANUAL COLORS	82	83	-	-	
FAN MODE	CO AUTO	84	85	-	-	
	CO HIGH	86	87	-	-	
	CO SILENT 1	88	89	-	-	
	CO SILENT 2	90	91	-	-	
	CO OFF	92	93	-	-	
	DO AUTO	94	95	-	-	
	DO HIGH	96	97	-	-	
	DO SILENT 1	98	99	-	-	
	DO SILENT 2	100	101	-	-	
Reserved		104	251	-	-	
Reset all channel controlled		252	253	-	-	
Reserved		254	255	-	-	

11 - 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	Value	GET	SET
RDM Information	SUPPORTED_PARAMETERS	0x0050	x	
	PARAMETER_DESCRIPTION	0x0051	x	
Product Information	PRODUCT_DETAIL_ID_LIST	0x0070	x	
	DEVICE_MODEL_DESCRIPTION	0x0080	x	
	MANUFACTURER_LABEL	0x0081	x	
	DEVICE_LABEL	0x0082	x	x
	FACTORY_DEFAULTS	0x0090	x	x
DMX512 Setup	DMX_PERSONALITY	0x00E0	x	x
	DMX_PERSONALITY_DESCRIPTION	0x00E1	x	
	DMX_START_ADDRESS	0x00F0	x	x
	SLOT_INFO	0x0120	x	
	SLOT_DESCRIPTION	0x0121	x	
Sensors	DEFAULT_SLOT_VALUE	0x0122	x	
	SENSOR_DEFINITION	0x0200	x	
Dimmer Settings	SENSOR_VALUE	0x0201	x	x
	DIMMER_INFO	0x0340	x	
	CURVE	0x0343	x	x
	CURVE_DESCRIPTION	0x0344	x	x
	OUTPUT_RESPONSE_TIME	0x0345	x	x
	OUTPUT_RESPONSE_TIME_DESCRIPTION	0x0346	x	
	MODULATION_FREQUENCY	0x0347	x	x
Power/Lamp Settings	MODULATION_FREQUENCY_DESCRIPTION	0x0348	x	
	DEVICE_HOURS	0x0400	x	x
	LAMP_HOURS	0x0401	x	
	LAMP_STRIKES	0x0402	x	
	LAMP_STATE	0x0403	x	
	LAMP_MODE	0x0404	x	x
	DEVICE_POWER_CYCLES	0x0405	x	x
Display Settings	DISPLAY_INVERT	0x0500	x	x
Configuration	LOCK_STATE	0x0641	x	x
	LOCK_STATE_DESCRIPTION	0x0642	x	
Control	IDENTIFY_MODE	0x1040	x	x

Manufacturer Specific PIDs

Parameter	PID	GET	SET	Value	Description
MASTER/SLAVE	0x8211	x	x	0-2	0: Master DMX 1: Master NO DMX 2: Slave
WHITE PRESETS	0x82BF	x		0-13	0: 2800K 1: 3200K 2: 3500K 3: 4000K 4: 4500K 5: 5000K 6: 5500K 7: 6000K 8: 6500K
MANUAL WARM WHITE	0x82FE	x	x	0-255	DEFAULT: 255
MANUAL COLD WHITE	0x82FF	x	x	0-255	DEFAULT: 255
DMX FAULT	0x82DD	x	x	0-3	0: Hold 1: Blackout 2: Stand Alone 3: Emergency
INVERT MAPPING	0x82E1	x		0-1	0: No 1: Yes
PIXEL PROT	0x82E5	x	x	0-3	0: Follow Fixture 1: Dmx 2: Artnet 3: Sacn
PIXEL DMX ADDRESS	0x82E6	x	x	1-512	DEFAULT: 1
PIX MODE	0x82E7	x	x	0-3	0: Off 1: Direct 4 2: Direct 8 3: Direct CCT
TUNGSTEN EMULATION	0x82BC	x	x	0-1	0: Off 1: On
ERROR MESSAGES	0x82EA	x		0-2	
STAND ALONE MODE	0x82EC	x	x	0-2	0: CCT 1: WHITE PRESETS 2: MANUAL COLORS
COLOR MACROS	0x82ED	x	x	0-64	Refer to DMX charts
STAND ALONE DIMMER	0x8360	x	x	0-255	DEFAULT: 255
MAINTENANCE TIME:ALERT PERIOD	0x82DF	x	x	10-300	DEFAULT: 300
MAINTENANCE TIME:ELAPSED TIME	0x82E0	x	x	0-1	DEFAULT: 0
CURRENT HOURS	0x82C5	x		0-1	
WIRELESS	0x8310	x	x	0-1	0: Off 1: On

12 - ERROR MESSAGES

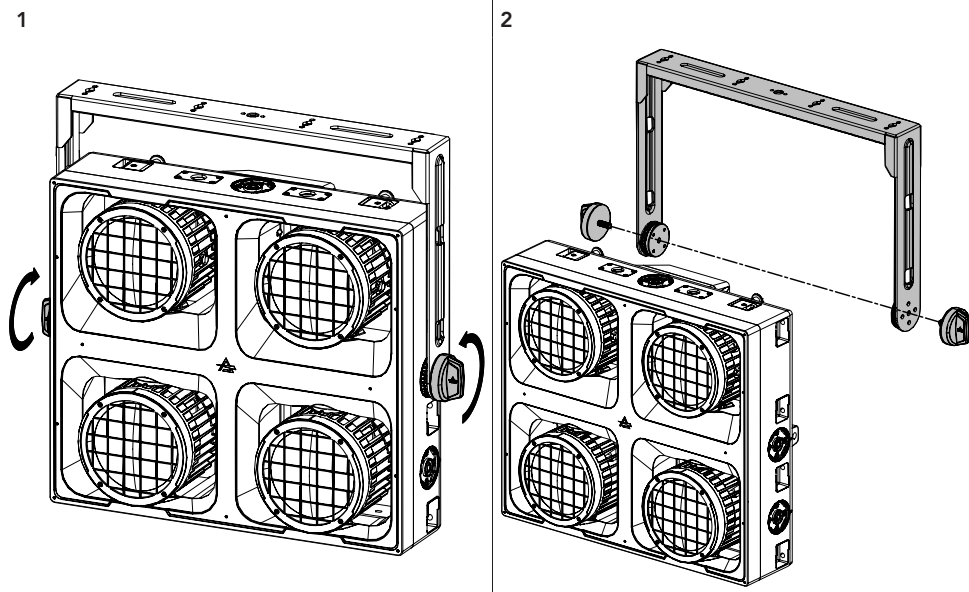
The error is shown on the unit display. In the table below, the "ERROR SHOWED ON SCREEN" column lists the possible errors, accompanied by a possible cause ("POSSIBLE" CAUSES "column).

ERROR SHOWED ON SCREEN	POSSIBLE CAUSES	POSSIBLE PCB WITH ANOMALY
[CTR1 ERROR]	Communication between master pcb and driver pcb 1 failed	DRIVER 1 PCB
[CTR2 ERROR]	Communication between master pcb and driver pcb 2 failed	DRIVER 2 PCB
[CTR3 ERROR]	Communication between master pcb and driver pcb 3 failed	DRIVER 3 PCB
[CTR4 ERROR]	Communication between master pcb and driver pcb 4 failed	DRIVER 4 PCB
TEMPERATURE1 ERROR	Driver pcb 1 temperature detection error	DRIVER 1 PCB
TEMPERATURE2 ERROR	Driver pcb 2 temperature detection error	DRIVER 2 PCB
TEMPERATURE3 ERROR	Driver pcb 3 temperature detection error	DRIVER 3 PCB
TEMPERATURE4 ERROR	Driver pcb 4 temperature detection error	DRIVER 4 PCB
MAX TEMP. ERROR	The set maximum temperature was exceeded	-
MAINTENANCE TIME	The maintenance time exceeds the set maintenance time	-

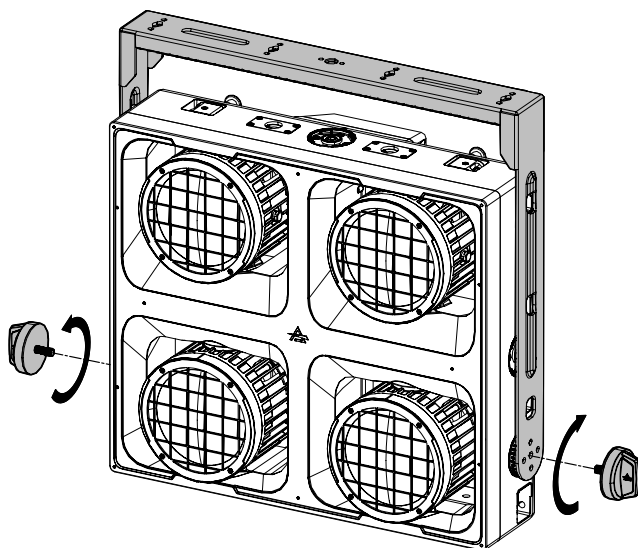
13 - ACCESSORIES INSTALLATION

NOTE: All products in the FLX Series share the same mechanics, ensuring compatibility across the entire range.

BRACKET: CODE SNR4FLXBRKL - OPTIONAL



First remove the bracket's knobs (1), then remove the **SNR4FLXBRKS** included bracket (2).



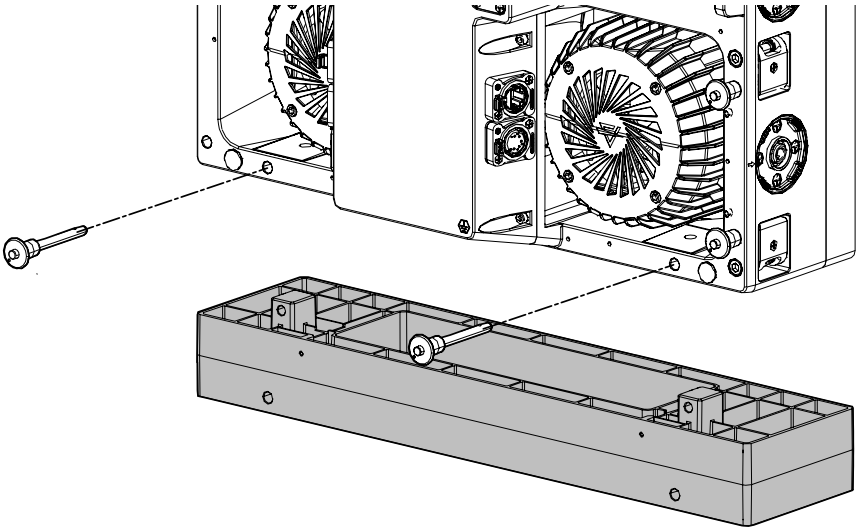
Once the standard bracket has been removed it is possible to install vertical bracket **SNR4FLXBRKL**.

Fig. 10

SPACER: CODE SRFLXSPC - OPTIONAL

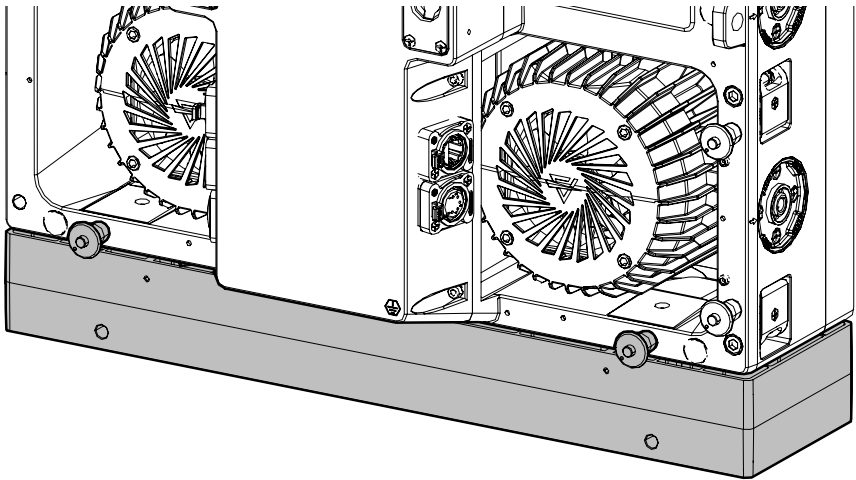
To ensure the same pixel pitch between multiple units assembled vertically.

1



First place the spacer under the fixture (1).
Now you can place another fixture locking the pins of the mechanics (2)

2



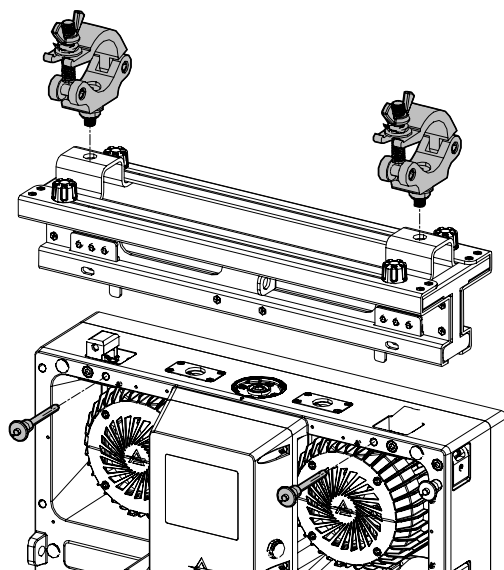
Now you can fix it by the provided pins (2).

Fig. 11

HANGING BRACKET

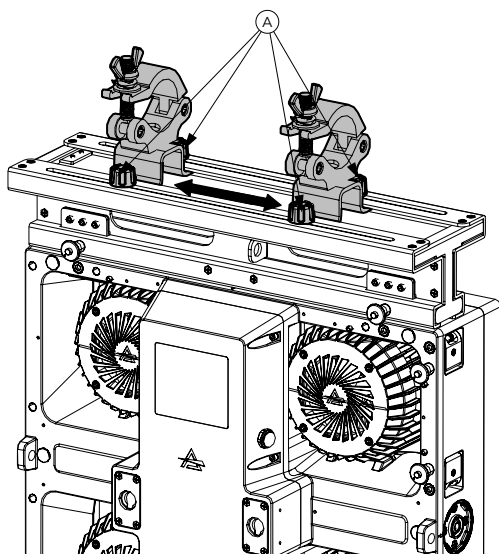
(CODE SBLFLXHB01H - OPTIONAL)

1



First remove the pins and place the **SBLFLXB01H** (1), then is possible to position the C6002 clamps.

2



Once the **SBLFLXB01H** has been installed, is possible to adjust the position (2) using the marked knobs (A)

Fig. 12

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.

- **Only for IP65/IP66 projectors:** It is recommended to verify IP grade using IPTESTBOX every time the bodies are removed for maintenance, this tool helps to double check the correct assembling of the covers with a check of the IP grade of the fixture.
- 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.

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.

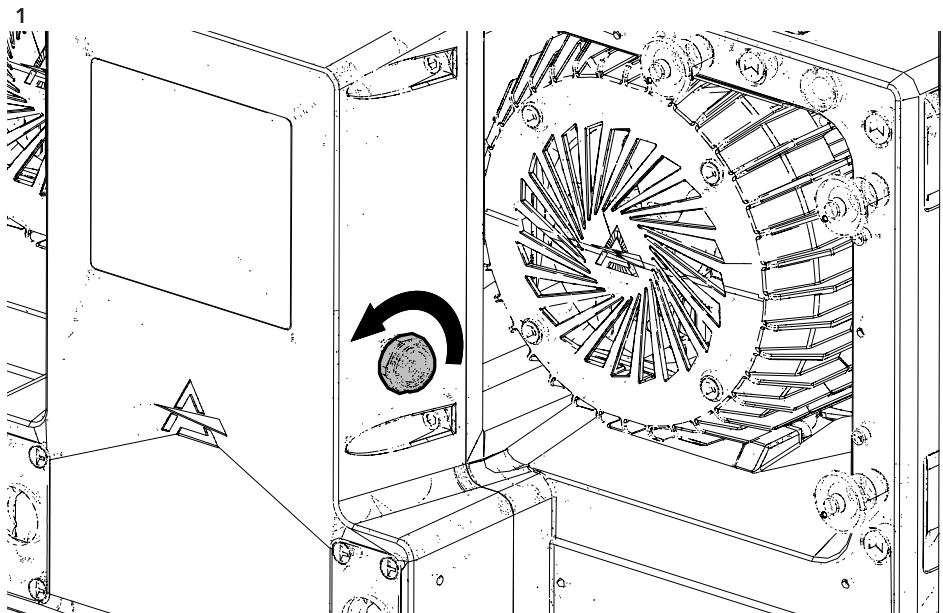
TROUBLESHOOTING

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.	• 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 to the controller.	• Bad signal connection.	• Inspect connections and cables. Fix eventual bad connections. Repair or replace damaged cables.
	• 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 corrupting the signal transmission 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.	• One or more hardware components requires mechanical adjustments.	• Check product stored error messages for more information. Contact PROLIGHTS Service or an authorized service partner.
Mechanical effect loses position	• Mechanical hardware require cleaning, adjustment or lubrication.	• 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.	• Check product stored error messages. • Allow product to cool. • Clean the product and airflow filters. • Reduce ambient temperature.
	• Hardware failure (temperature sensor, fans, Light source...).	• Check product stored error messages for more information. Contact PROLIGHTS Service or an authorized service partner.
General low light intensity	• Dirty lens assembly	• Clean the fixture regularly.
	• Dirty or damaged filters	• Install lens assembly properly.

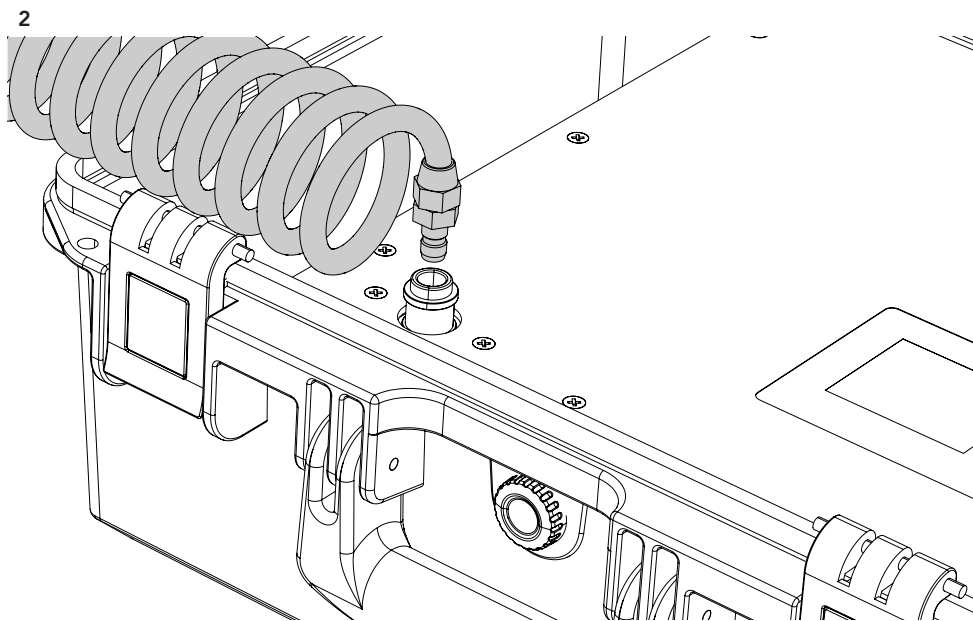
Contact an authorized service center in case of technical problems or not reported in the table can not be resolved by the procedure given in the table.

15 - IP65 RATING TEST

It is recommended to verify IP grade using IPTESTBOX every time the bodies are removed for maintenance.

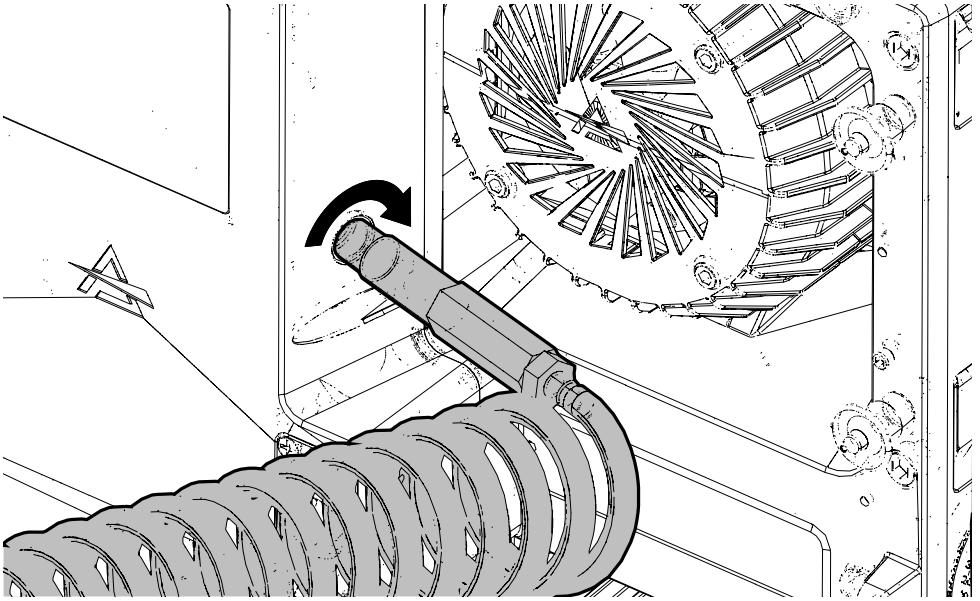


Remove the first gore valve from the side of the projector.



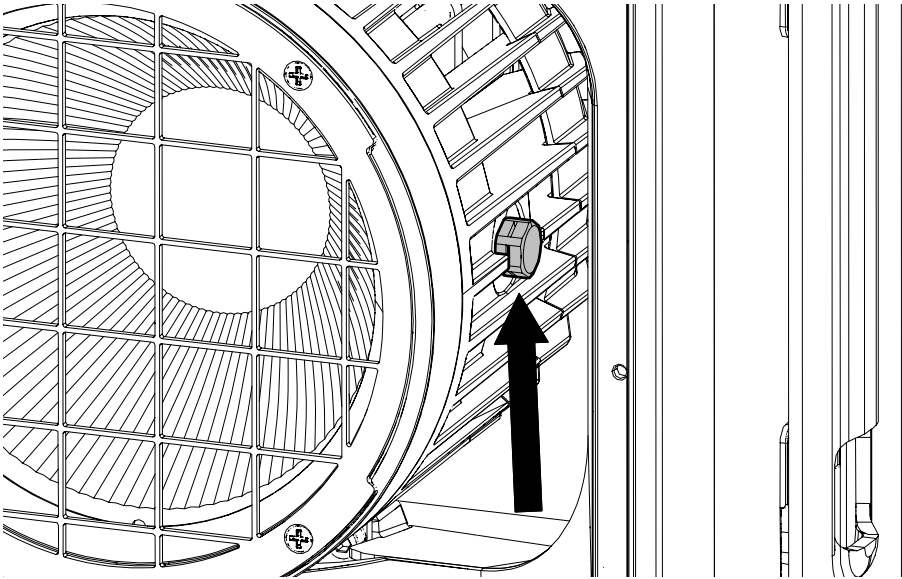
Connect the air hose to the IPTESTBOX by inserting the quick-connect fitting into the coupler.

3



Insert the threaded end into the threaded valve hole socket.

4



For the operating procedure using the instrument, refer to the IPTESTBOX user manual.
Repeat the same process with gore valves on the heads

Fig. 13

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

This image shows a full page of blank, lined paper. It features approximately 20 evenly spaced horizontal grey lines across its entire width, providing a guide for handwriting or typing. The paper itself is a clean, off-white color.

