EclPar IPSVW

IP65 single source 60W VariWhite LED spotlight, 15° optics included

USER MANUAL

Rev. 24-Jul-25

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

WARNING!

- See https://www.prolights.it/product/ECLPARIPSVW#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_a45°C

Max operating ambient temperature (Ta)

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

T_a-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_c80°C

Temperature of the external surface

- The surface of the fixture can reach up to 80 °C (176 °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 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).

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

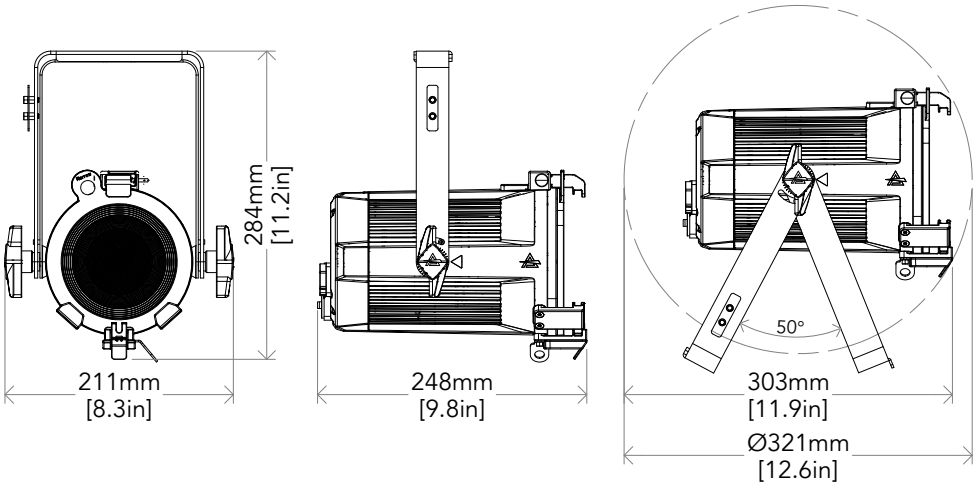
PACKAGE CONTENT

- 1x ECLPARIPSVW;
- 1x EPIPSLENS15;
- 1 x 1,5 meters 3G1,5mmq power cable (BARE END - SEETRONIC 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/ECLPARIPSVW#accessories

2 - TECHNICAL DRAWING



Weight: 2,8 kg - 6,17 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.

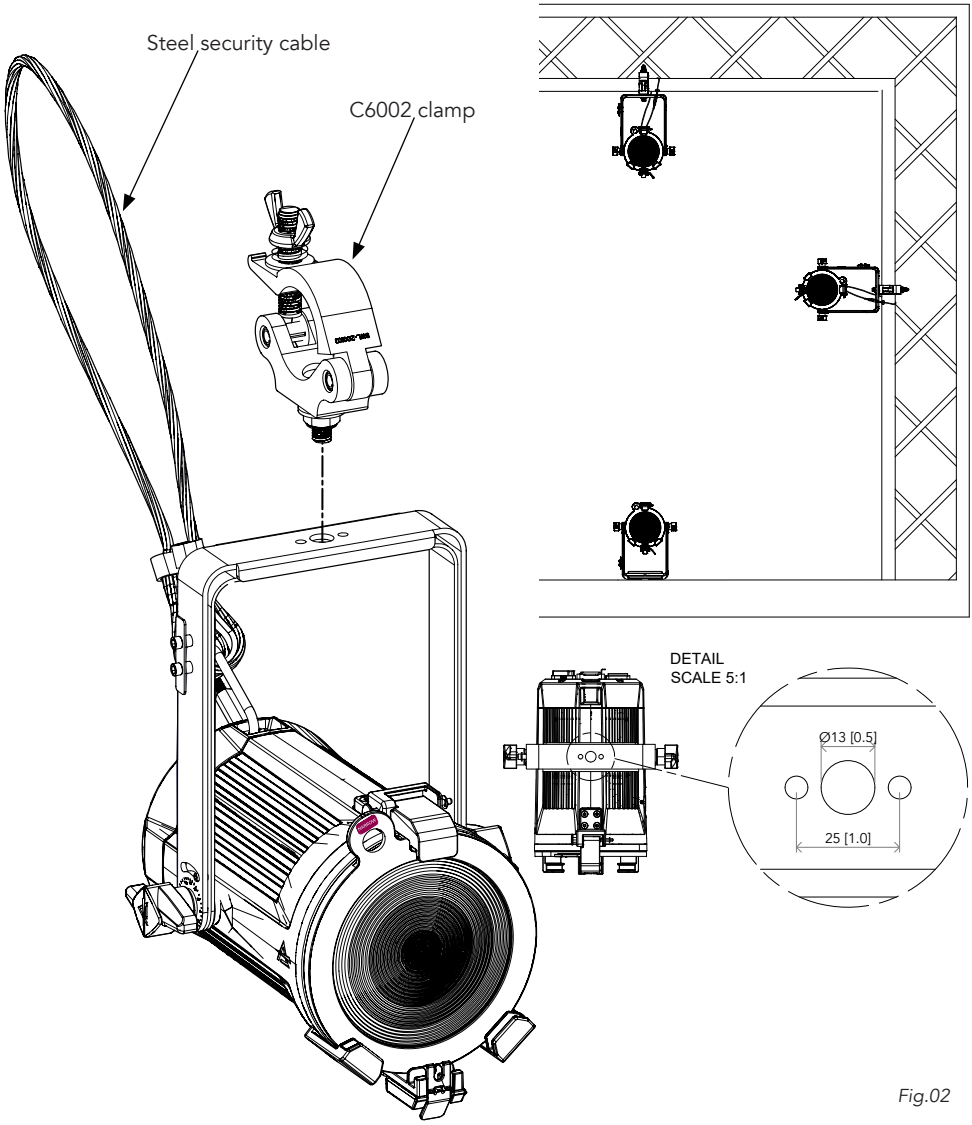


Fig.02

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: 65W.

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. ADJUSTABLE BRACKET for hanging safe.
2. KNOBS to lock the bracket.
3. SAFETY HOLE: for safety cable insertion.
4. POWER IN: for connection to the Mains 100-240V~/50-60Hz.
5. DMX IN / OUT (5-p XLR): 1 = GND, 2 = sign-, 3 = sign+, 4 N/C, 5 N/C.
6. POWER OUT: for connection to the Mains 100-240V~/50-60Hz.
7. USER INTERFACE with display and buttons for access to the control panel functions.
8. GORE VALVE.
9. TOP CLIP to lock/unlock the accessories.
10. BOTTOM CLIP: used as a secondary locking system of the frontal accessories.
11. EPIPSLENS: narrow 15° frontal lens (Included).
12. BRACKET LACK: to manage the cables.

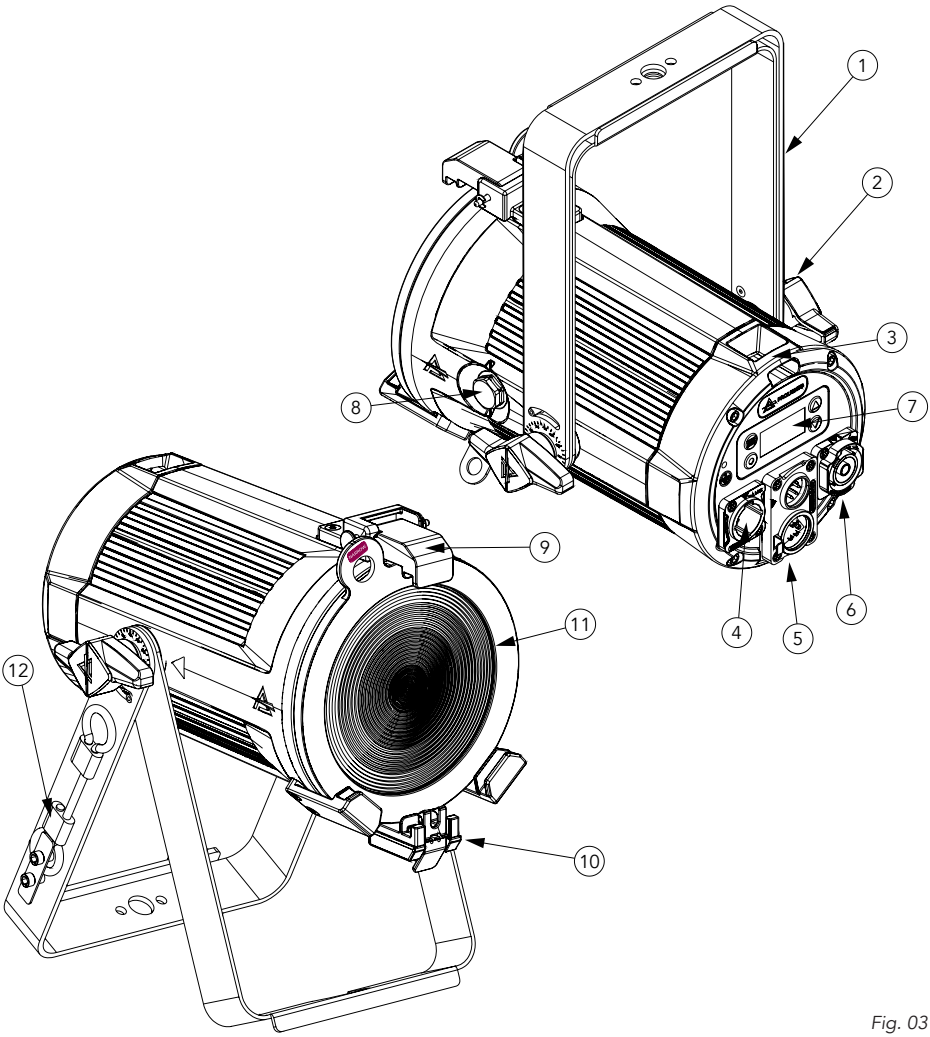


Fig. 03

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

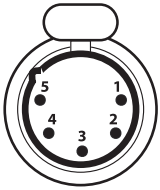


Fig. 04

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 120Ω impedance and low capacity.
The following diagram shows the connection mode:

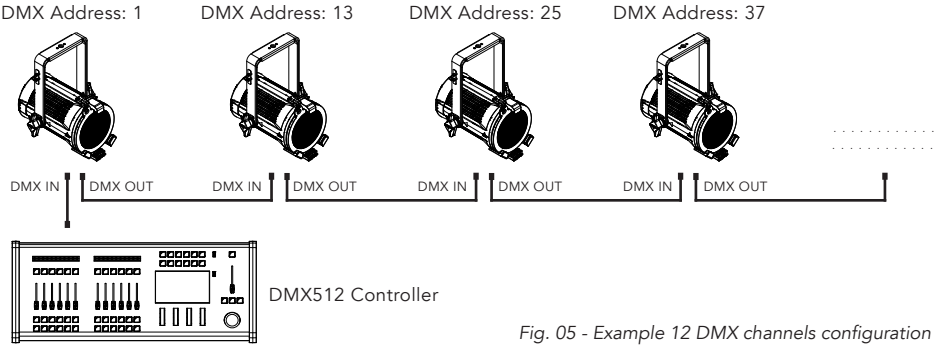
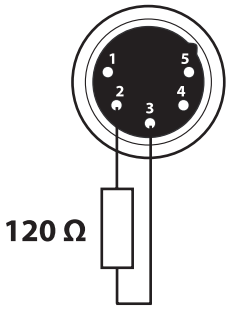
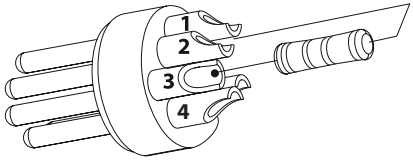


Fig. 05 - Example 12 DMX channels configuration

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.

OPERATION AS A WIRELESS TRANSMITTER

ECLPARIPS can be used as wireless transmitter to transmit DMX signal to different wireless receivers.
To use ECLPARIPS as wireless transmitter, please follow the procedure below:
1. Push ENTER button untill 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 untill 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 ECLPARIPS.
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 ECLPARIPS.
4. Power Cycle ECLPARIPS and restart it
5. Perform a "TX Link" on ECLPARIPS to link to the receiver

IN TO CRMX

This function enable or disable the transmission throught wireless of the DMX signal from the transmitter side to the receiver.
Any incoming signal (ArtNet, sACN or DMX) is retransmitted throught wireless. It's possible to choose retransmission of Main Fixture or Pixel Engine.
If the ECLPARIPS protocol selected is ArtNet / sACN, the CRMX module will retransmit the DMX values contained in the ArtNet / sACN signal received from the ECLPARIPS.

OPERATION AS A WIRELESS RECEIVER

ECLPARIPS can be used as wireless receiver connected to a wireless transmitter.
To use ECLPARIPS as wireless receiver, please follow the procedure below:

1. Push ENTER button untill 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 on the receiver unit will shows the DMX address. If DMX signal is not available, the display will shows "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 untill 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 throught the DMX port on the receiver side.

8 - CONTROL PANEL

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

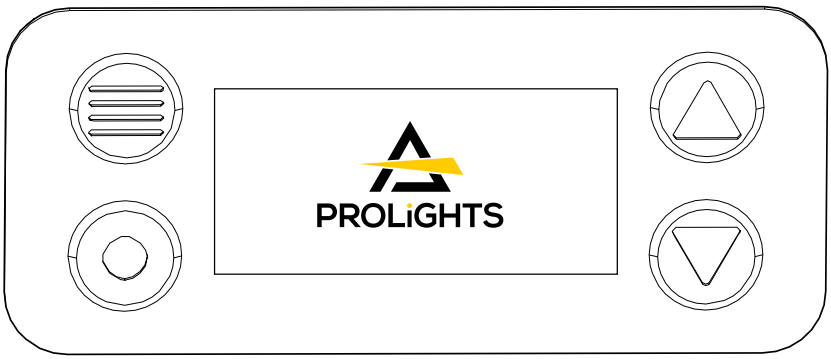


Fig. 07

DISPLAY AND BUTTONS LAYOUT

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

	**MENU** - Used to access the menu tree and to return to the upper level. Hold to go back to the home screen.
	**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 displayed value, or activate the displayed function.

SHORTCUT

Keys	Mode	Description
UP + DOWN after power on	Flip Display	Directly flip display without enter inside menu
ENTER	Home screen (Keep 3 sec)	Stand Alone menu
DOWN for 3s	Home screen (Keep 3 sec)	Factory Reload

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
DMX ADDRESS	**1**-512				*Set DMX Address*
DMX MODE	UNO DUO	CCT PRESET	2700K		*Set DMX Mode* *For Uno and Duo mode selection of CCT, Color Macro or Manual color is available.*
			2800K		
			3000K		
			3200K		
			3500K		
			4000K		
			4200K		
			4500K		
			5000K		
			5600K		
			6000K		
			6500K		
		MANUAL COLORS	WW		
			CW		
	BASIC				
	BASIC 16BIT				
	STANDARD				
	EXTENDED				
	ADVANCED				
WIRELESS	CRMX ON/OFF	ON			*Enable/Disable the wireless card.*
		OFF			
	CRMX MODE	TX CRMX			*Choose whether to set the wireless card as Transmitter or Receiver.* *For Transmitter mode you can also select which protocol to transmit.* *CRMX mode is unlocked only if CRMX ON / OFF is ON.*
		TX G4S			
		TX G3			
		RX			
	TX LINK	ON			*TX link unlock when the unit is set as a transmitter.*
		OFF			
	TX UNLINK	ON			*Disconnect the transmitter from all receivers. TX unlink unlocks only if CRMX mode is on transmitter.*
		OFF			
	RX RESET	ON			*Disconnect the transmitter from all receivers.* *TX unlink unlocks only if CRMX mode is on transmitter*
		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	When In RX Mode: 1. Insert 8 digit code 2. Ask for mode (CRMX or CRMX²) 3. Ask for universe (CRMX: A,C,E,G I CRMX²: A,B,C,D,E,F,G,H) When in TX CRMX Mode: 1. Insert 8 digit code			*Linking key can be used as a simple way to link receivers to a transmitter without the need to initiate the linking process on the transmitter. This allows the user to just enter the code into the receiver and it will be linked to the transmitter with the same code.*
	UNIVERSE METADATA	In RX Mode: 1. RGB Color code received from TX 2. Universe name received from TX In TX CRMX Mode: 1.RGB Color code set from R,G,B combo list 2. Universe name by default takes first 16 characters of Model Name.			*CRMX transmitters may transmit some universe metadata information used to identify the received universe on the receiver side. These are;* *Universe name: A 16 character string with a human readable name identifying the universe.* *Universe color: RGB code for an LED that can easily be used to visually identify the universe by color.*

MENU: SETUP

LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	DESCRIPTION
SCREEN	BACKLIGHT	ON			*Select the timing after that display will switch automatically off when unactive.*
		10S			
		20S			
		30S			
	FLIP DISPLAY	ON			*Allows you to rotate the display by 180°*
		OFF			
	KEY LOCK	ON			*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*
		OFF			
	TEMPERATURE UNIT	**°C**			*Choose Temperature unit.*
		°F			
TRANSFER CONFIG	WITHOUT DMX ADDRESS				*Transfer settings from current fixture to other fixture of the same model using DMX Protocol. If there is signal coming from other source Transfer Configuration it's not available.*
	WITH DMX ADDRESS				

MENU: ADVANCED

LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	DESCRIPTION
DIMMER CURVE	LINEAR				*Set Dimmer Curve for Main Dimmer function.*
	S-CURVE				
	SQUARE LAW				
	INVERSE SQUARE LAW				
DIMMER SPEED	**AUTO**				*Set Dimmer Speed. This parameter defines interpolation of DMX Changes for main functions.* *Off turns off interpolation.*
	FAST				
	MEDIUM				
	SLOW				
	OFF				
LED FREQUENCY	600HZ	6000HZ			*Select PWM frequency.* *NOTE: Using higher LED Frequency color accuracy may be slightly compromised at low level of dimmer.*
	1200HZ	25KHZ			
	2000HZ	36KHZ			
	4000HZ	40KHZ			
DMX FAULT	HOLD				*Select behaviour in case of Signal fault.*
	BLACKOUT				
	STAND ALONE				
	EMERGENCY				
OUTPUT CONTROL	CONSTANT				*Choose Output Control mode. Check table for differences.*
	DYNAMIC				
USER SETTINGS	PRESET 1				
	PRESET 2				
	PRESET 3				
	PRESET 4				
	PRESET 5				
FACTORY RELOAD	ON				*Factory Reload to bring back all default values and settings.*
	OFF				

MENU: INFORMATIONS

LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	DESCRIPTION
DEVICE TIME	FIXTURE HOURS	<99999H>			*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.*
	CURRENT HOURS	<99999H>			
	SOURCE HOURS	<99999H>			
	AC POWER ON CYCLE	<99999H>			
	MAINTENANCE TIME	ELAPSED TIME			
		ALERT PERIOD	10 - 1000		
POWER CONS.	** W				*Show estimated power consumption.*
TEMPERATURE	NEAR SOURCE TEMP, DRIVER PCB TEMP, LED PCB TEMP,…				*Show all NTC temperatures.*
WIRELESS QUALITY	** %				*Show Wireless quality by percentage.*
CHANNEL VALUE					*Show all Channel values as a list, value shown depends on DMX Mode*
ERROR MESSAGE					*Show error message*
FIXTURE MODEL	< - >				*Show RDM fixture model*
DEVICE LABEL	<RDM LABEL>				*Show RDM Label.*
CALIBRATION	MASTER				*Show calibration state.*
SOFTWARE VERSION	"<V1.0>"				*Show firmware version of the fixture*
CRMX MODULE VERSION	TimoFX: Vx.x.xx				*Show firmware version of TimoFX module.*
RDM UID	15D00228****				*Show RDM UID of the fixture.*

MENU: STAND ALONE

LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	DESCRIPTION
MASTER/SLAVE	MASTER DMX				*Allow you to link and operating in synk multiple units without a DMX console. Choose a unit to perform as the Master. Master No DMX: fixture is not broadcasting signal.*
	MASTER NO DMX				
	SLAVE				
EFFECTS	EFFECT 1 to 5	DIMMER	<1-100>		
		STROBE	<1-100>		
STATIC	CCT PRESET	2700K	DIMMER 000 - 255		
		2800K			
		3000K			
		3200K			
		3500K			
		4000K			
		4200K			
		4500K			
		5000K			
		5600K			
		6000K			
		6500K			
	MANUAL COLORS	WW	000 - **255**		
		CW	000 - **255**		

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.

DIMMER CURVES

Five 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.

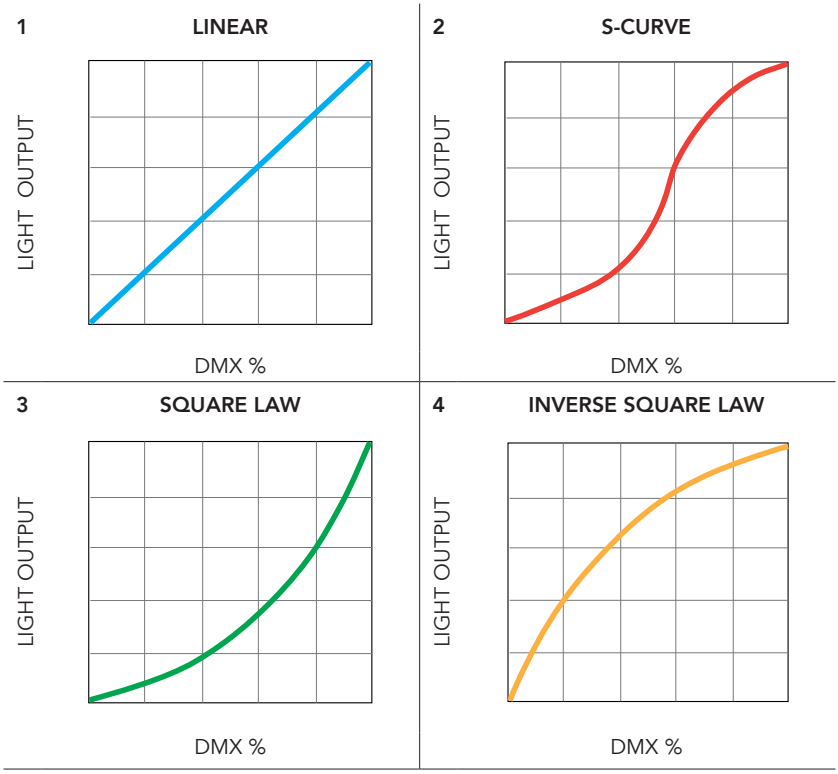


Fig. 08

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).

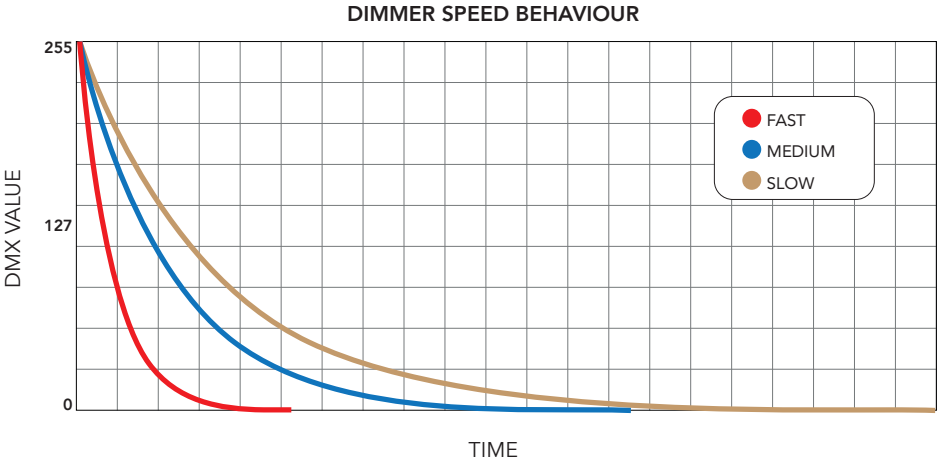


Fig. 09

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.

10 - DMX CHARTS

RDM Model ID: 0xD168

RDM Personality ID List

ID	DMX Mode	Footprint
1	UNO	1CH
2	DUO	2CH
3	BASIC	2CH
5	BASIC 16BIT	4CH
6	STANDARD	5CH
7	EXTENDED	9CH
8	ADVANCED	11CH

DMX BASIC MODES

PARAMETER	UNO	DUO	BASIC	BASIC 16BIT	STD	EXT	ADV
DIMMER	1	1	1	1	1	1	1
DIMMER FINE	-	2	-	2	2	2	2
CCT	-	-	2	3	3	3	3
CCT FINE	-	-	-	4	-	4	4
CROSSFADE	-	-	-	-	-	5	5
WARM WHITE	-	-	-	-	-	6	6
WARM WHITE FINE	-	-	-	-	-	-	7
COLD WHITE	-	-	-	-	-	7	8
COLD WHITE FINE	-	-	-	-	-	-	9
STROBE	-	-	-	-	4	8	10
CONTROL	-	-	-	-	5	9	11

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%)

CCT (2800K - 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	

Crossfade from CCT to WW/CW

Function	8 bit value		16 bit value		Note
	From	To	From	To	
Linear Crossfade	0	255	0	65535	Default @ 255

Warm White

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

Cold White

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

Strobe

Function	8 bit value		16 bit value		Note
	From	To	From	To	
Open	0	1	-	-	Default @ 255
Strobe from Slow to Fast	2	62	-	-	
Open	63	64	-	-	
Pulse In from slow to fast	65	125	-	-	
Close	126	127	-	-	
Pulse Out from slow to fast	128	188	-	-	
Open	189	190	-	-	
Random from slow to fast	191	251	-	-	
Open	252	255	-	-	

Control Channel

Function		8 bit value		Note
		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	
DIMMER SPEED	AUTO	26	27	
	FAST	28	29	
	MEDIUM	30	31	
	SLOW	32	33	
	OFF	34	35	
LED FREQUENCY	600HZ	36	37	
	1200HZ	38	39	
	2000HZ	40	41	
	4000HZ	42	43	
	6000HZ	44	45	
	25KHZ	46	47	
	36KHZ	48	49	
	40KHZ	50	51	
DMX FAULT	HOLD	52	53	
	BLACKOUT	54	55	
	STAND ALONE	56	57	
	EMERGENCY	58	59	
OUTPUT CONTROL	CONSTANT	60	61	
	DYNAMIC	62	63	
STANDALONE	STAND ALONE MASTER DMX	64	65	
	STAND ALONE MASTER NO DMX	66	67	
	STAND ALONE SLAVE	68	69	
	STAND ALONE EFFECTS	70	71	
	STAND ALONE CCT PRESETS	72	73	
	STAND ALONE MANUAL WW / CW	74	75	
Reserved		76	249	
Reset all channel controlled		250	251	
Reserved		252	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	
	DEFAULT_SLOT_VALUE	0x0122	x	
Sensors	SENSOR_DEFINITION	0x0200	x	
	SENSOR_VALUE	0x0201	x	x
Dimmer Settings	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
	MODULATION_FREQUENCY_ DESCRIPTION	0x0348	x	
Power/Lamp Settings	DEVICE_HOURS	0x0400	x	x
	LAMP_HOURS	0x0401	x	
	DEVICE_POWER_CYCLES	0x0405	x	x
Display Settings	DISPLAY_INVERT	0x0500	x	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**
DMX FAULT	0x82DD	x	x	0-3	0: Hold 1: Blackout **2: Stand Alone** 3: Emergency
MANUAL WARM WHITE	0x82C0	x	x	0-255	**DEFAULT: 255**
MANUAL COLD WHITE	0x82C1	x	x	0-255	**DEFAULT: 255**
CURRENT HOURS	0x82C5	x		0-1	
ERROR MESSAGES	0x82EA	x		0-2	
MAINTENANCE TIME:ALERT PERIOD	0x82DF	x	x	10-300	**DEFAULT: 300**
MAINTENANCE TIME:ELAPSED TIME	0x82E0	x	x	0-1	**DEFAULT: 0**
CLEAN ALL DATA	0x82C8	x	x	0-1	**0: No** 1: Yes
CCT PRESETS	0x82ED	x	x	0-11	0: 2700K 1: 2800K 2: 3000K **3: 3200K** 4: 3500K 5: 4000K 6: 4200K 7: 4500K 8: 5000K 9: 5600K 10:6000K 11:6500K
EFFECTS	0x8209	x	x	1-5	**DEFAULT: 1**
EFFECTS SPEED	0x8210	x	x	0-100	**DEFAULT: 100**
OUTPUT	0x830C	x	x	0-1	**0: Constant Output** 1: Dynamic Output
POWER CONSUMPTION	0x82DE	x			
STAND ALONE MODE	0x82EC	x	x	0-2	0:Effects **1:CCT Presets** 2:Manual WW / CW

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).

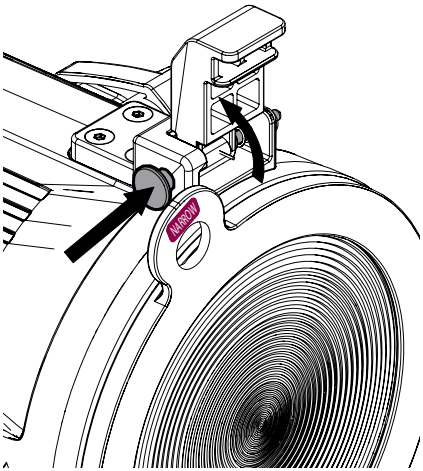
ERROR SHOWED ON SCREEN	POSSIBLE CAUSES	POSSIBLE PCB WITH ANOMALY
LED ERROR	This error message is displayed when the lamp is switched OFF without a command from the product control system	LED MODULE
LED TEMPERATURE ERROR	This error message indicates that an overheating on the lamp has occurred and the lamp has been switched OFF by the product protection system.	LED MODULE
LED TEMP. SENSOR ERROR	LAMP sensor damaged (open or in short circuit)	TEMP. SENSOR
DRV ERROR	Communication failure between DISP and DRV	DISPLAY / DRV
CALIBRATION ERROR	Communication failure between calibration chip and DRV2 or Calibration returning unexpected/wrong datas	DRV2 / CALIBR. CHIP

13 - ACCESSORIES INSTALLATION

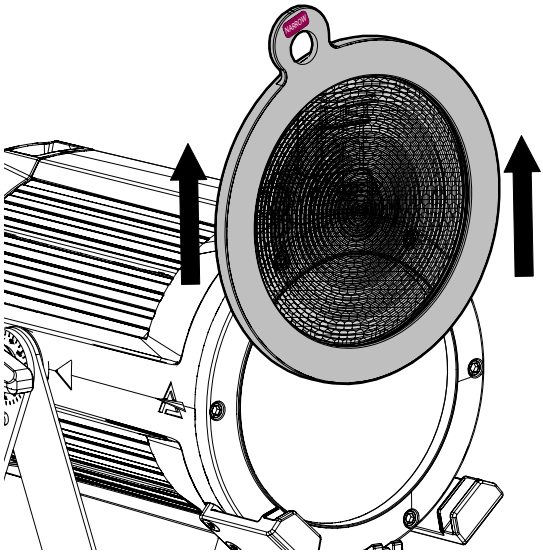
LENSES

(EPIPSLENS15 - 15° lens INCLUDED; EPIPSLENS30/60 - 30°/60° lens OPTIONAL)

1

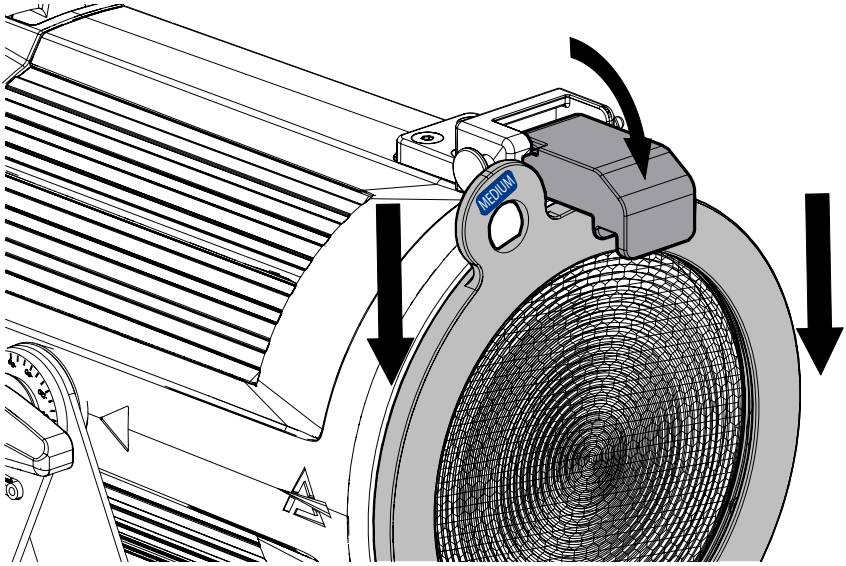


2



Open the Holder Clip and remove the included EPIPSLENS15 15° lens included.

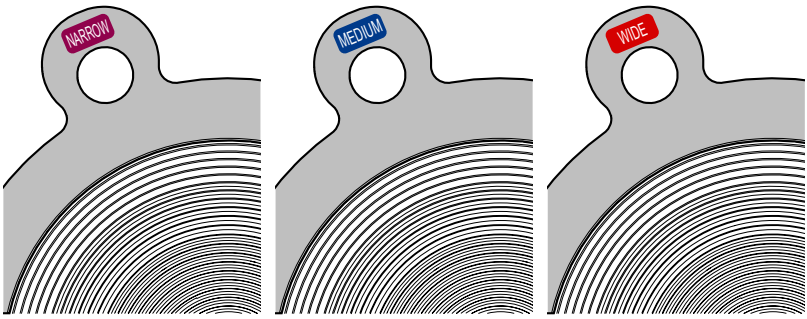
3



Insert the optional lens reversing the procedure (the lens is fixed by magnets).
NOTE: *The lenses are identified by colors, see the next page for further details.*

Fig. 10

To distinguish the projection angle of different accessory lenses, they are identified by color:



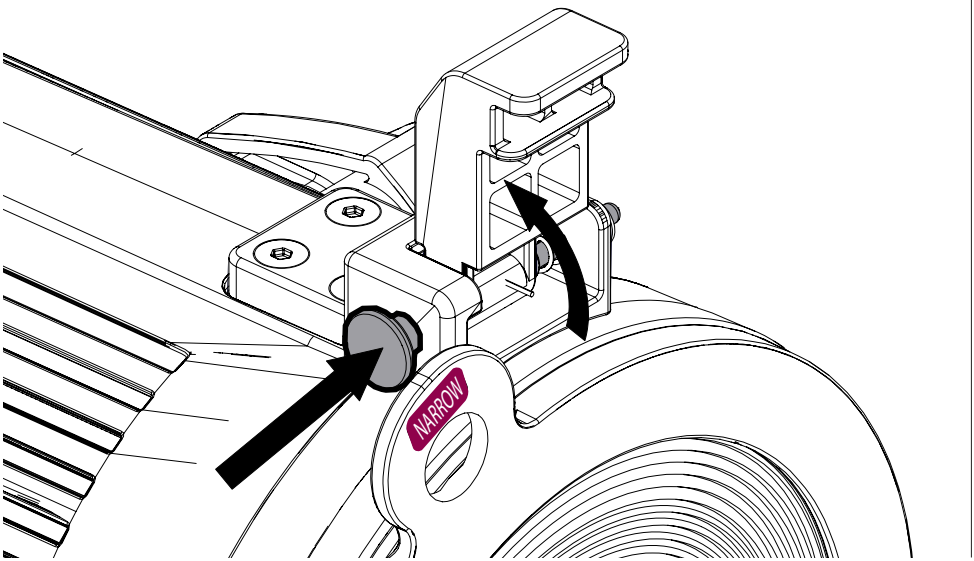
Code:	*EPIPSLENS15*	*EPIPSLENS30*	*EPIPSLENS60*
Lens Model:	Narrow Lens	Medium Lens	Wide Lens
Color Code:	**MAGENTA**	**BLUE**	**RED**
Beam Angle:	15°	30°	60°

Fig. 11

ASYMMETRICAL FILTERS

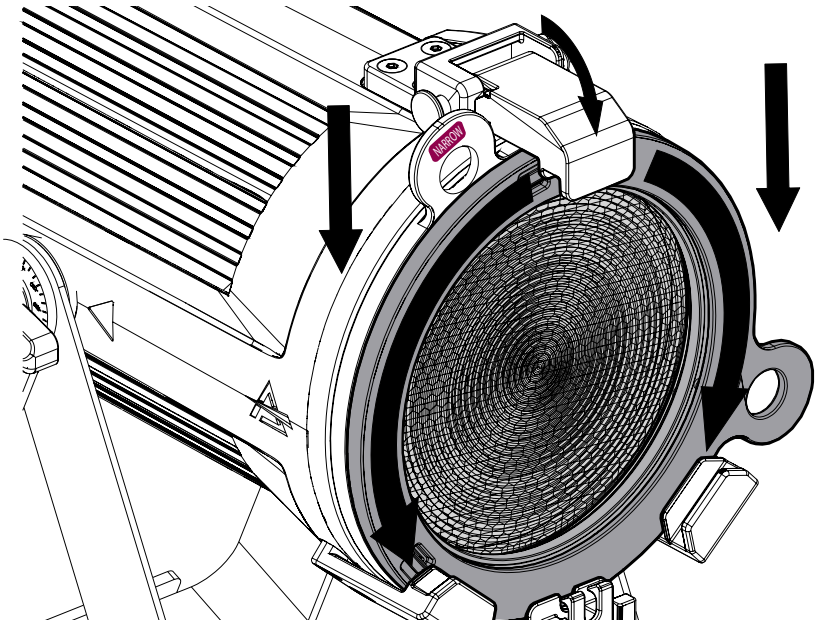
(EPIPSFILT1020; EPIPSFILT1040; EPIPSFILT1060; EPIPSFILT3060 - OPTIONAL)

1



Open the Holder Clip to access the filter slot.

2



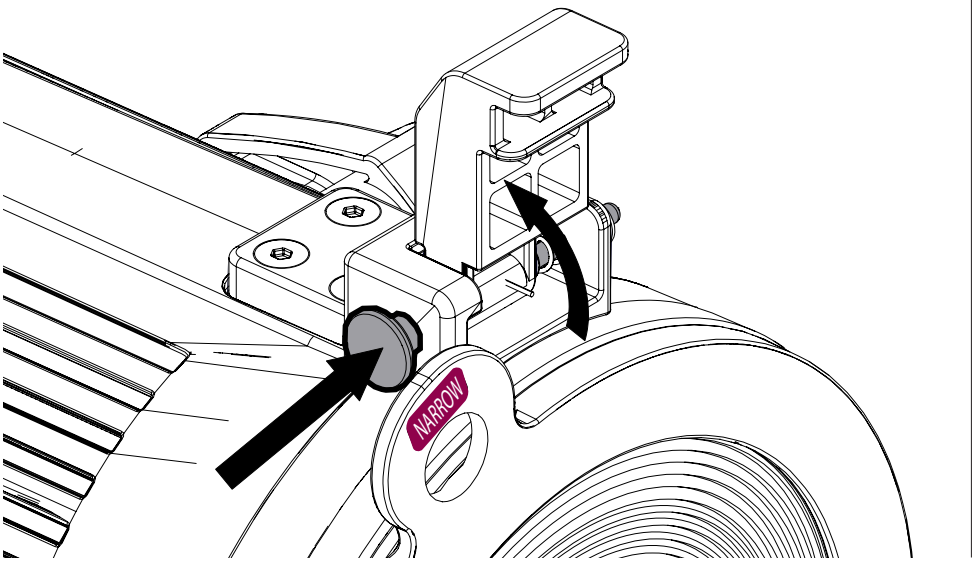
Insert the optional filter ahead the lens (the filter is fixed by magnets).
NOTE: *The filter can be rotated from +90° to -90° according to the needs.*

Fig. 12

FRONTAL ACCESSORIES

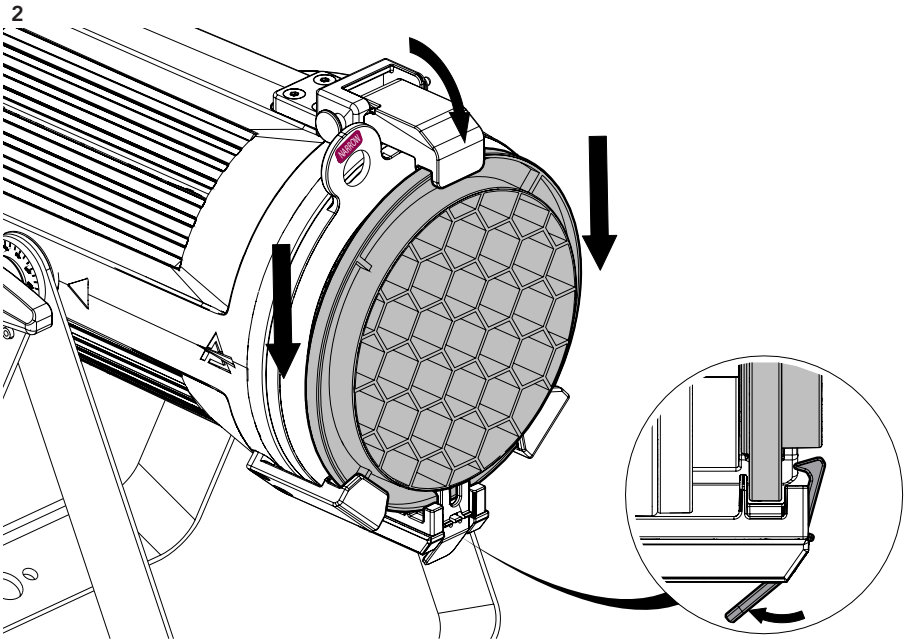
(EPIPSCLOUVRE; EPIPSHLOUVRE; EPIPSFSNOOT; ECLPARIPSBD - OPTIONAL)

1



Open the Holder Clip to access the filter slot.

2



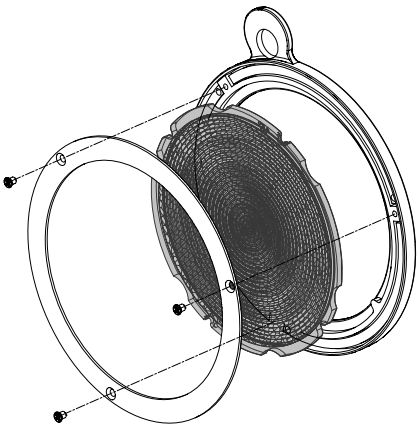
Insert the optional accessory and fix it by the bottom clip.
NOTE: *The accessories can be rotated according to the needs.*

Fig. 13

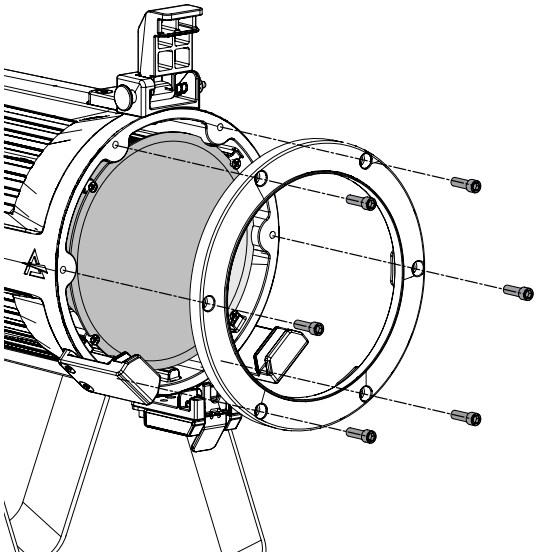
LENS ASSEMBLY FROM INSIDE

It is recomended for permanent outdoor installations

1

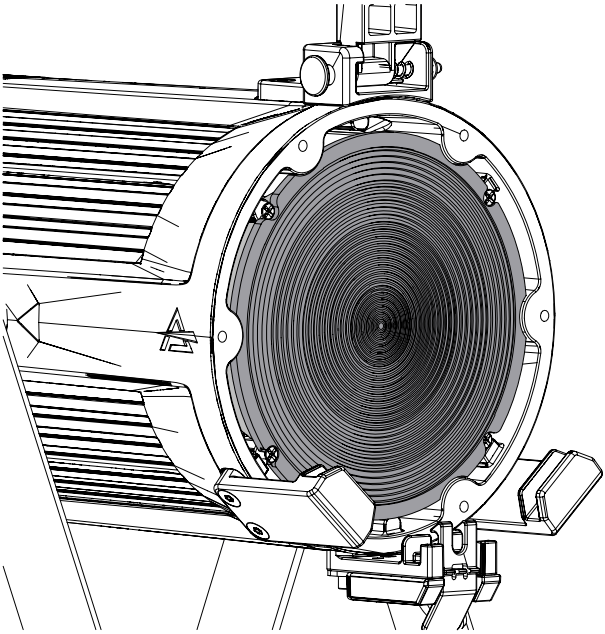


2



First remove the lens from the lens holder (1), then remove the frontal glass (2).

3



Insert the lens just ahead the reflector, then reverse the procedure to close the fixture.
NOTE: it is recomended to perform an IP test after opening the projector.

Fig. 14

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

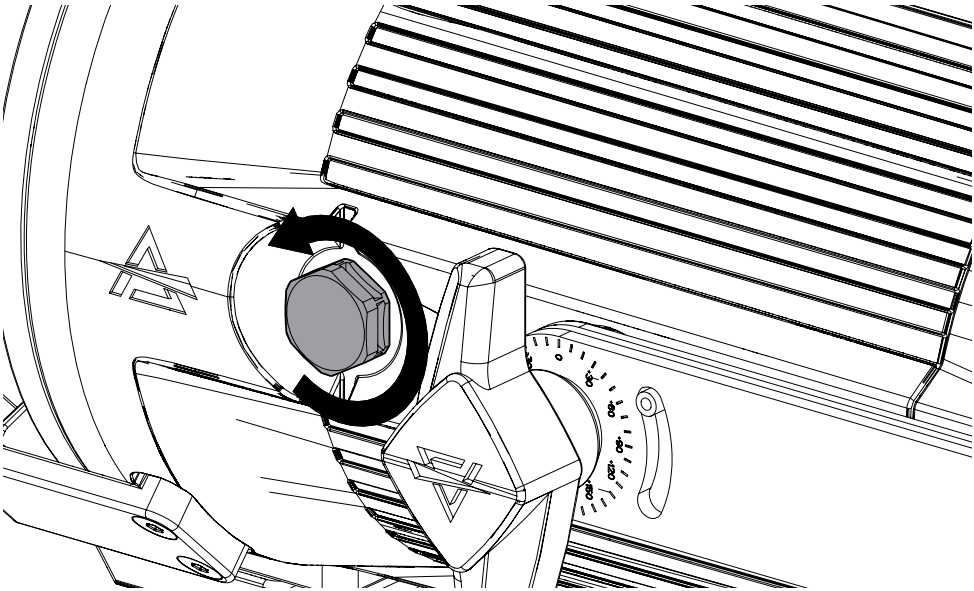
Problems	Possible causes	Checks and remedies
Product doesn't power ON	• No power to the product.	• Check that power is switched ON and cables are plugged in.
	• Fuse blown or internal fault.	• Contact the PROLIGHTS Service or authorized service partner. Do not remove parts and/or covers, or carry out 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 does not respond correctly to the contoller.	• 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	• One or more hardware components requires mechanical adjustments.	• 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. • Reduce ambient temperature.
	• Hardware failure (temperature sensor, 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 • Dirty or damaged filters	• 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.

15 - IP65 RATING TEST

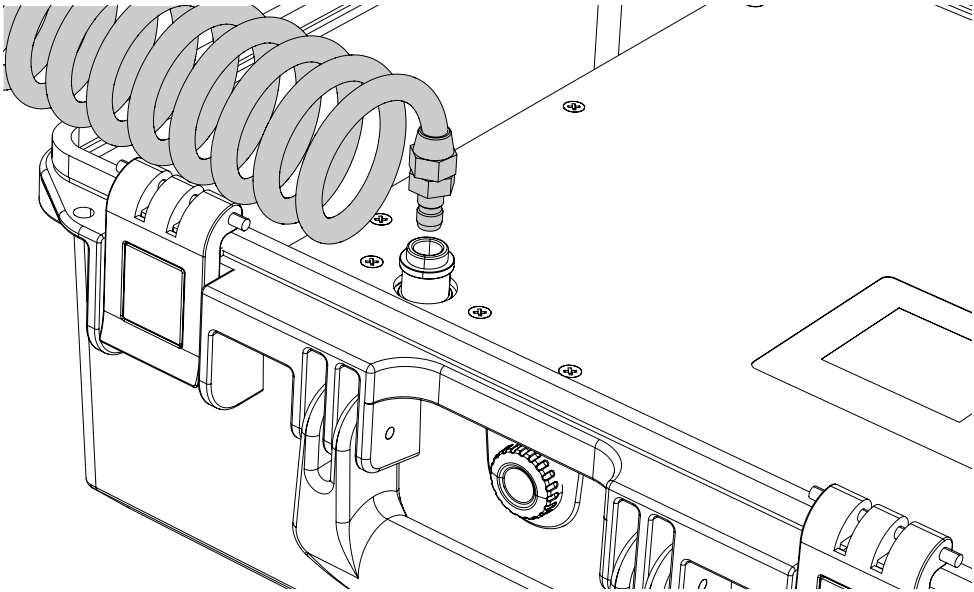
It is recommended to verify IP grade using IPTESTBOX every time the bodies are removed for maintenance.

1



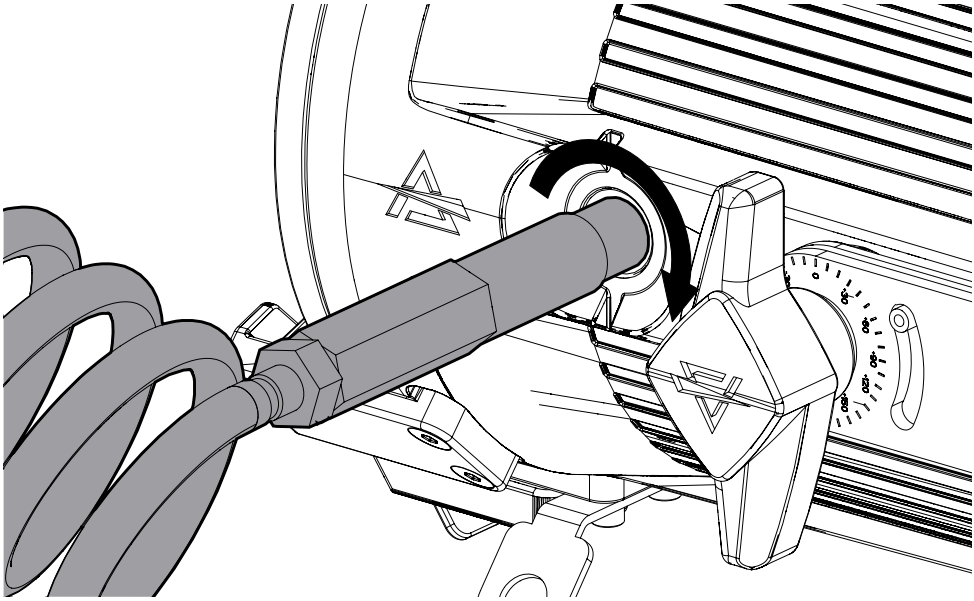
Remove the first gore valve from the side of the projector.

2



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.
For the operating procedure using the instrument, refer to the IPTESTBOX user manual.

Fig. 15

Note

Note

PROLIGHTS is a trademark of
MUSIC & LIGHTS S.r.l.
musiclights.it

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