



Mosaico XL+

600W IP66 zoomable LED image projector
with CMY and framing shutter



USER MANUAL

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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SAFETY INFORMATION



WARNING!

- See <https://www.prolights.it/product/MOSAICOXLPLUS#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.



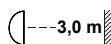
Protection and Warning against electrical shock

- 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 3.0 meters (9.84 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.

IP66

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 80 °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.



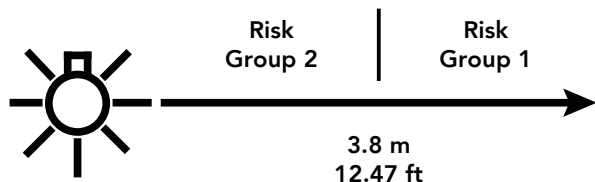
Photobiological safety

- This device emits potentially dangerous optical radiation and is identified in the category of Risk Group 2 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.
- The device should be positioned so that prolonged staring into the luminaire at a distance closer than 3,8 m (12,47 ft) is not expected.



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).
- 2014/53/EU - Radio Equipment Directive (RED).



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 - 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

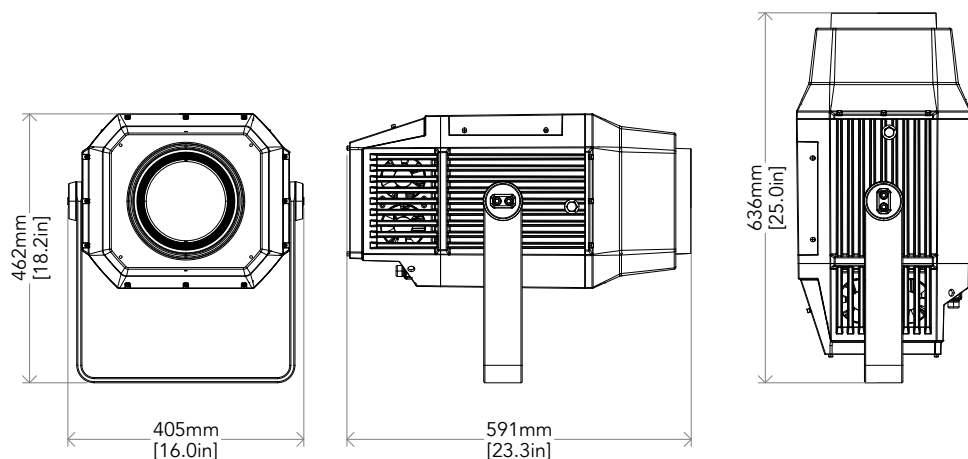
PACKAGE CONTENT

- 1 x MOSAICOXLPLUS;
- 1 x BARE END - IP connection adapter;
- 1 x 5p XLR - IP connection male adapter;
- 1 x 5p XLR - IP connection female adapter;
- User Manual.

OPTIONAL ACCESSORIES

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

2 - TECHNICAL DRAWING



Weight: 35.5 kg - 78.26 lbs

Fig. 01

3 - INSTALLATION

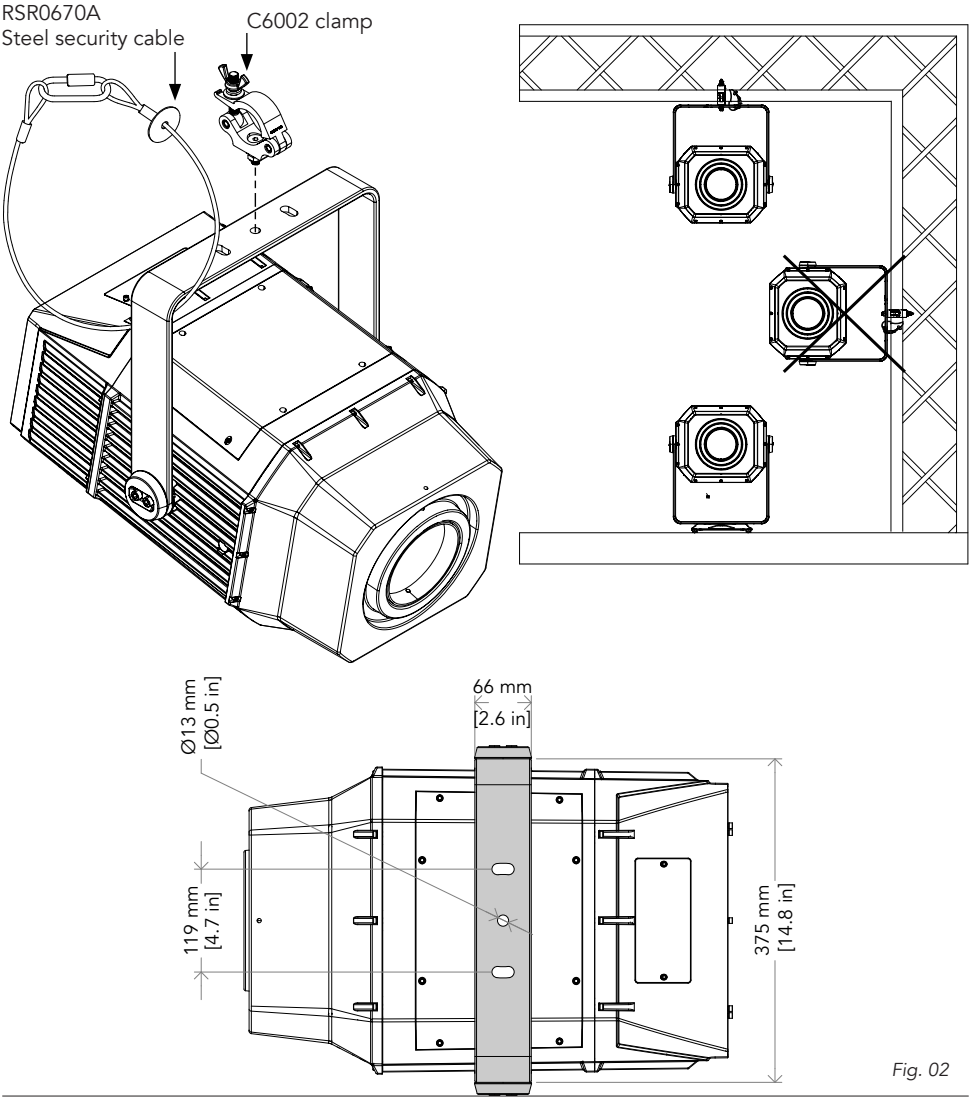
MOUNTING

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

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

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

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



4 - CONNECTION TO THE MAINS SUPPLY

WARNING: For protection from electric shock, the fixture must be earthed!
The product is equipped with auto-switching power supply that automatically adjusts to any 50-60Hz AC power source from 100-240 Volts.
If you need to install a power plug on the power cable to allow connection to power outlets, install a grounding-type (earthed) plug, following the plug manufacturer's instructions. If you have any doubts about proper installation, consult a qualified electrician.
The max power consumption is 680W.
You can link up to 5 units at 230 V. Never exceed this number. Power linking cords can be purchased separately.

MALE POWER IP67 CONNECTOR

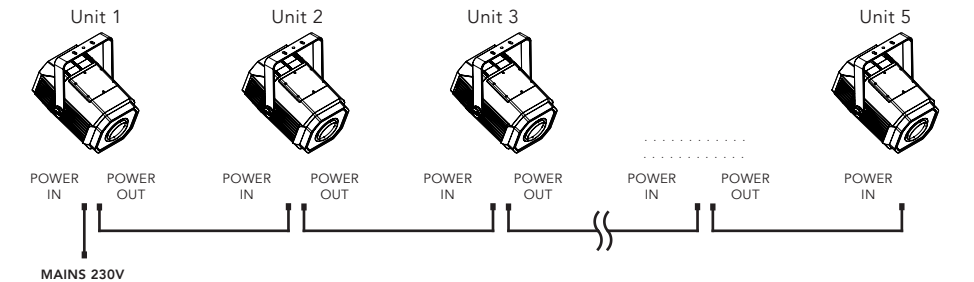


FEMALE POWER IP67 CONNECTOR



Fig. 03

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



NOTE: when not using the Power output connectors, you must seal the cable ends with the supplied caps.

Fig. 04 - Example configuration (Output at 230 V)

5 - START UP

CONNECT AND DISCONNECT POWER FROM THE PRODUCT

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

6 - PRODUCT OVERVIEW

1. BRACKET;
2. USER INTERFACE with display and buttons for access to the control panel functions;
3. GORE VALVE;
4. POWER IN: for connection to the Mains 100-240V~/50-60Hz;
5. POWER OUT: for connection to the Mains 100-240V~/50-60Hz;
6. DMX IN (3-p XLR): 1 = GND, 2 = sign-, 3 = sign+;
7. DMX OUT (3-p XLR): 1 = GND, 2 = sign-, 3 = sign+;
8. ANTENNA.

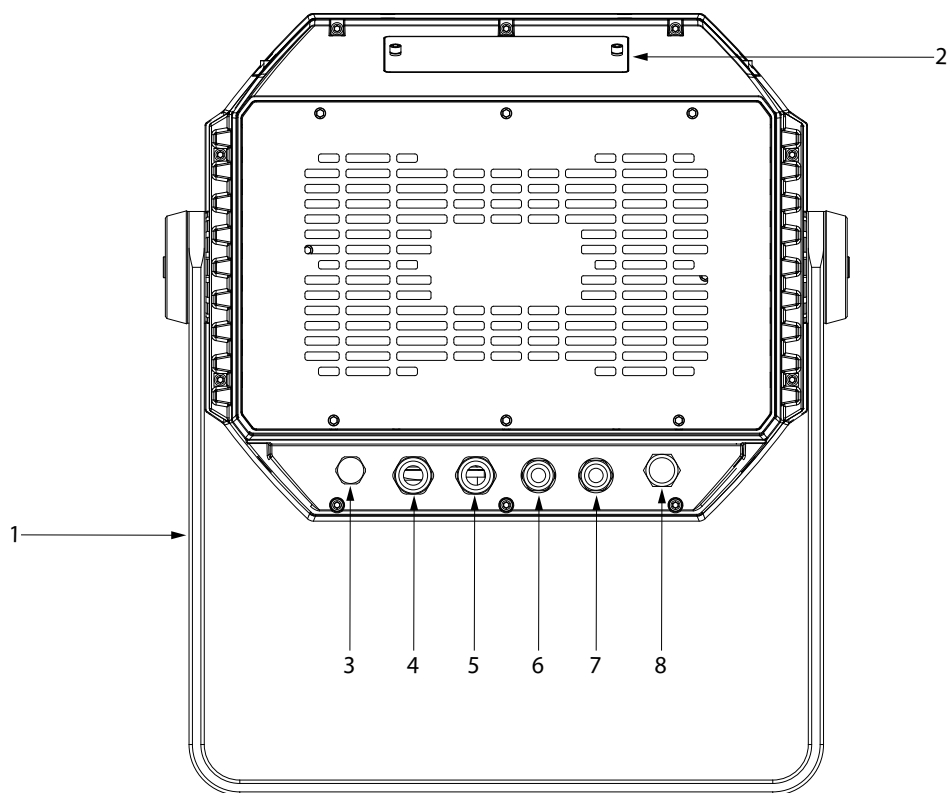


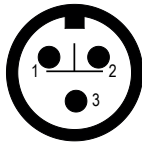
Fig. 05

7 - DMX CONNECTION

CONNECTION OF THE CONTROL SIGNAL: DMX LINE

The product has connectors for DMX input and output.
The default pin-out on both connectors is as the following diagram:

DMX - INPUT
IP67 CONNECTOR



Pin1 : GND - Shield
Pin2 : - Signal
Pin3 : + Signal

DMX - OUTPUT
IP67 CONNECTOR

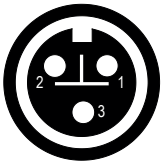


Fig. 06

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.**

NOTE: To connect the unit to your DMX network, it is necessary to use the adapters XLR 5 pin-IP67 signal connector, supplied with this product.

CONNECTION DAISY CHAIN OF THE DMX LINE

Connect the DMX data output from the DMX source to the product DMX input (male connector).
Run the data link from the product DMX output (female connector) connector to the DMX input of the next fixture.
Terminate the data link by connecting a 120 Ohm signal termination.
The termination is prepared by 120Ω 1/4 W resistor between pins 2 and 3 of the male DMX connector.
Install a DMX termination plug on the last fixture on the link. If a splitter is used, terminate each branch of the link.

NOTE: when not using the DMX input or DMX output connectors, you must seal the cable ends with the supplied caps.

The following diagram shows the DMX connection:

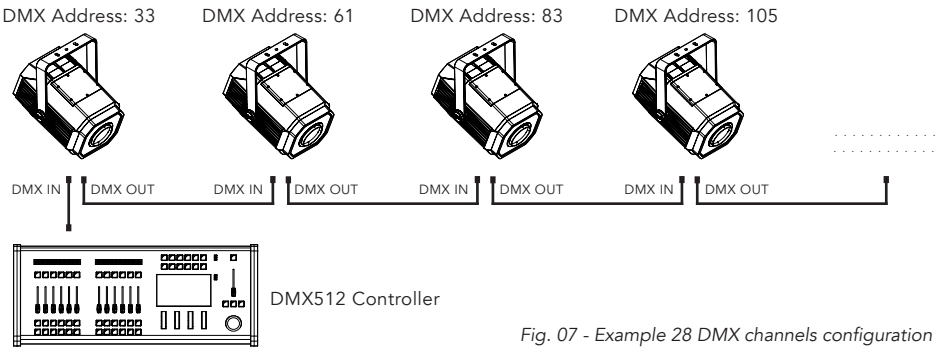


Fig. 07 - Example 28 DMX channels configuration

CONNECTION OF THE CONTROL SIGNAL: DMX LINE ADAPTERS

The product has XLR sockets adapters for DMX input and output.
The default pin-out on both socket is as the following diagram:

DMX - INPUT XLR plug



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

DMX - OUTPUT XLR socket



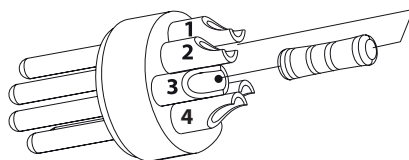
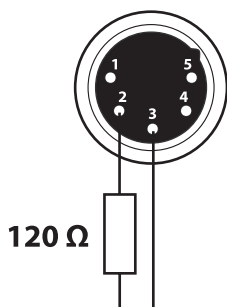
Fig. 08

CONNECTION OF THE DMX LINE

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

CONSTRUCTION OF THE DMX TERMINATION

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



Example:
5 pin XLR connector

Fig. 09

DMX ADDRESSING

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

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

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

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

To set the fixture's DMX address:

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

OPERATION AS A WIRELESS TRANSMITTER

MOSAICO XL can be used as wireless transmitter to transmit DMX signal to different wireless receivers. To use MOSAICO XL 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 WDMX ON/OFF function and enable it to ON.
4. Select WDMX mode and set it on Transmitter (please note that WDMX mode will be available only if WDMX 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 WDMX 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 WDMX mode is set to Transmitter).
 - All connected receivers will be unlinked.

IN TO WDMX

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

Any DMX incoming signal is retransmitted through wireless.

8 - CONTROL PANEL

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

NOTE: remove the display cover to access the control panel

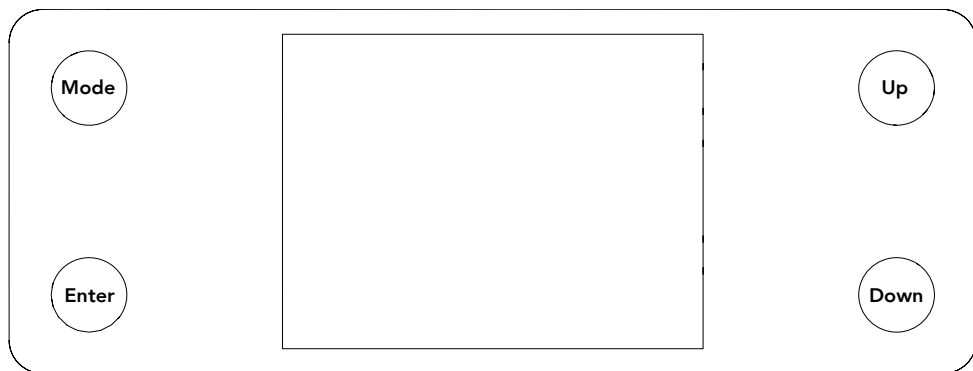


Fig. 10

DISPLAY AND BUTTONS LAYOUT

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

9 - MENU STRUCTURE

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

MENU					
1	CONNECT	DMX Address	001-512		
		DMX Mode	28CH 30CH 35CH 44CH		
		Wireless	Receive On/Off	YES NO	
			Receive Reset	YES NO	
			Wireless to DMX	ON OFF	
2	SETUP	Screen	BACKLIGHT	ON 10 s 20 s 30 s	
			FLIP DISPLAY	YES NO	
			WARN CUE	ON OFF	
			KEY LOCK	ON OFF	
		Fixture	FAN MODE	AUTO ON SILENT	
			TEMPERATURE UNIT	°C °F	
			LED FREQUENCY	600 HZ 1200 HZ 2000 HZ 4000 HZ 6000 HZ 25K HZ	
			TEMPERATURE UNIT	°C °F	
		AUTO TEST	AUTO TEST		
		MANUAL TEST	SHUTTER	000-255	
			DIMMER	000-255	
			COLOR1	000-255	
			CYAN	000-255	
			MAGENTA	000-255	
			YELLOW	000-255	
			CTO	000-255	
			COLOR	000-255	
			GOBO	000-255	
			RGobo	000-255	
			PrismRot	000-255	
			FROST1	000-255	
			FROST2	000-255	
			FOCUS	000-255	
			ZOOM	000-255	
			EFFECT	000-255	
			REffect	000-255	
			IRIS	000-255	
			Fr.shutters Rot.	000-255	
			Fr.shutter 1 Move.	000-255	
			Fr.shutter 1 Swiv.	000-255	

			Fr.shutter 4 M1 Fr.shutter 4 M2	000-255 000-255	
		FACTORY RELOAD	OFF ON		
4	INFORMATION	FIXTURE TIME	0-99999		
		TEMPERATURE	58 °C		
		FANS SPEED	***%		
		SOFTWARE VERSION	DISP1: V1.0 DISP2: V1.0 FPGA: V2.0 CTR1: V1.0 CTR2: V1.0 CTR3: V1.0		
		RDM UID	"15D0***** MODEL ID D186"		
		MEMORY	CAPACITY: X.X GB		
		ERROR MESSAGE			
		VIEW			
5	STANDALONE	PLAY	OFF		
			SHOW	Show 1 Show 2 Show 3	
			CHASE	Chase 1 ... Chase 8	
			SCENE	Scene 1 ... Scene 32	
		EDIT SHOW	SHOW 1 SHOW 2 SHOW 3	CHASE 1 ... CHASE 8	ON OFF
		EDIT CHASE	CHASE 1 CHASE 2 ... CHASE 8	STEP 1 STEP 2 ... STEP 16	OFF SCENE 1 ... SCENE 32
		EDIT SCENES	SCENE 01 SCENE 02 SCENE 03 SCENE 04 SCENE 05 SCENE 06 SCENE 07 SCENE 08 SCENE 09 SCENE 10 SCENE 11 SCENE 12 SCENE 13 SCENE 14 SCENE 15 SCENE 16 ... SCENE 32	NEW / EDIT SCENE	Default: Dimmer: 255 Shutter: 255 Focus: 128 Zoom: 128 Fr.shutter 1 Move:128 Fr.shutter 1 Swiv:128 Fr.shutter 2 Move:128 Fr.shutter 2 Swiv:128 Fr.shutter 3 Move:128 Fr.shutter 3 Swiv:128 Fr.shutter 4 Move:128 Fr.shutter 4 Swiv:128 All others at 0
				COPY	OFF SCENE 1 ... SCENE 32
		SCENES RECORD	SCENE 01 ... SCENE 32	DMX - SCENES RECORD ONLY FOR SCENE RECORD MODE	
		SLAVE SETUP	EDIT SCENE 01 ... EDIT SCENE 32		
		SCENES TIME	SCENE 01 TIME SCENE 02 TIME SCENE 03 TIME SCENE 04 TIME ... SCENE 32 TIME	FADE IN TIME	0.000 - 3600.0
				HOLD TIME	0.000 - 3600.0
				FADE OUT TIME	0.000 - 3600.0
		CHASE TIME	CHASE 1 ... CHASE 8	0.000 - 3600.0	

		MOVE WITH BLACKOUT	SCENE 01 ... SCENE 32	OFF ON	
		ADD MECH. TIME	OFF ON		
6	DMX 512 MODE	OFF - ON			
		EDIT	DMX SHOW RECORD	DMX SHOW 1 ... DMX SHOW 8	
			SNAPSHOT	SNAPSHOT 1 ... SNAPSHOT 16	
		PLAY	DMX SHOW RECORD	DMX SHOW 1 ... DMX SHOW 8	
			SNAPSHOT	SNAPSHOT 1 ... SNAPSHOT 16	
		CLOCK SETTING	CURRENT TIME	2018/12/19 14:20	
			CLOCK SETTING	2018/12/19 14:20	
		SCHEDULE SHOW	SCHEDULE SHOW 1 SCHEDULE SHOW 2 SCHEDULE SHOW 3 SCHEDULE SHOW 4 SCHEDULE SHOW 5 SCHEDULE SHOW 6 SCHEDULE SHOW 7 SCHEDULE SHOW 8 SCHEDULE SHOW 9 SCHEDULE SHOW 10 SCHEDULE SHOW 11 SCHEDULE SHOW 12 SCHEDULE SHOW 13 SCHEDULE SHOW 14 SCHEDULE SHOW 15 SCHEDULE SHOW 16	OFF/ON	OFF ON
				SHOW	Off Snapshot1 Snapshot2 Snapshot3 Snapshot4 Snapshot5 Snapshot6 Snapshot7 Snapshot8 Snapshot9 Snapshot10 Snapshot11 Snapshot12 Snapshot13 Snapshot14 Snapshot15 Snapshot16 Dmx Show
				WEEK	Monday Tuesday Wednesday Thursday Friday Saturday Sunday Everyday
				TIME	00:00-23:59

WIRELESS

- To enter the Wireless mode proceed in the following mode:
- Press the MENU button to access the main menu.
- Press the UP/DOWN button to scroll the menu, select **Connect**, then press the ENTER button to enter the next menu.
- Select the **Wireless Receive** function using the UP/DOWN buttons, then press the ENTER button.
- To activate the **Wireless Receive** function, use the UP/DOWN buttons and select the **On** option.
- Press the ENTER button to confirm the selection.
- Press the MENU button to go back or wait a few seconds to exit the setup menu.

NOTE - Once you have performed these steps, you must synchronize with any WiFi unit with which you want to communicate by pressing the sync button on it. At this point connect the DMX console to the WiFi unit to open the communication with the MOSAICOXL.

- To reset the unit, select the **Receive Reset** function using the UP/DOWN buttons, press the RIGHT button until the display shows **Connect**, then select **Receive Reset** using the UP/DOWN buttons, then press the ENTER button.
- To activate the mode use the UP / DOWN keys and select the **Yes** option.
- Press the ENTER button to confirm the selection.
- Press the MENU button to go back or wait a few seconds to exit the setup menu.
- To activate the **Wireless to DMX** function, use the UP / DOWN buttons to press the ENTER button until the display shows **Connect**, then select **Wireless to DMX**, then press the RIGHT button.
- To activate the mode use the UP/DOWN buttons and select the **Yes** option.
- Press the ENTER button to confirm the selection.
- Press the MENU button to go back or wait a few seconds to exit the setup menu.

SCREEN

It is possible to modify the following parameters, related to the display, following the same procedure:

- Press the MENU button to access the main menu.
- Press the UP/DOWN button to scroll through the menu, select **Set Up**, then press the ENTER button access the next menu.
- Press the UP/DOWN button to select **Screen** and press the ENTER button to proceed.
- Select the proposed option with the UP/DOWN button and press the ENTER button to confirm.
 - **Backlight** - Auto Off display backlight. This function allows you to switch off automatically the backlighting of the display after a certain time which can be set using the directional keys. To have the display always on select **On** or set a value between those shown (10s, 20s, 30s) to turn off the display once the chosen time has elapsed, after exiting the menu.
 - **Flip Display** - Display orientation. This feature allows you to rotate the display by 180 ° to get a better view of the display when the unit is hanging upside down. Select **Yes** to activate the function, **No** to deactivate it or **Auto**.
 - **Warn Cue** - Warning of error. Use the arrow keys to select **Off** or **On** depending on whether or not the display shows error warnings.
 - **Key lock** - With this function, you can lock the keys on the control panel to prevent, for example, tampering with the settings. If this function is activated, the keys are locked automatically. To disable or temporarily disable or disable the key lock function, press the keys in the following order to regain access to the menu commands: UP, DOWN, UP, DOWN, ENTER. Select **Yes** to activate the function or **No** to deactivate it.
- Press the ENTER button to confirm the selection.
- Press the MENU button repeatedly to exit the menu and to save the changes made.

FIXTURE SETTINGS

You can change the parameters for the device by following these steps:

- Press the button MENU to enter the menu mode.
- Use the buttons UP/DOWN to select Set Up. Press the button ENTER to confirm.
- Use the buttons UP/DOWN to select Fixture. Press the button ENTER to confirm.
- Press the buttons UP/DOWN to select the desired option and press the button ENTER to confirm:

- Fan Mode - Fan speed. Select the desired fan speed Auto, Silent, High through the button UP/DOWN.
- Temperature unit. Select Temperature unit function and then choose Celsius / Fahrenheit measurement unit then press the ENTER button to confirm the selection.
- Press the MENU button repeatedly to exit the menu and to save the changes made.

AUTO TEST

Allow checking the proper functioning of the unit. Start the automatic test in the following way:

- Press the button MENU to enter the menu mode.
- Use the buttons UP/DOWN to select the Set Up. Press the button ENTER to confirm.
- Press the buttons UP/DOWN to select the Auto Test and press ENTER to confirm.
- To confirm and start the automatic test press the MENU button.

MANUAL TEST

It allows to do adjustments on the effects through comands pannel to obtain a perfect balance between the projectors.

- Press the button MENU to enter the menu mode.
- Press the buttons UP/DOWN to select the item Set Up. Then press the button ENTER.
- Press the buttons UP/DOWN to select the Manual Test. Then press the button ENTER.
- Select the effect you want change (Shutter, Dimmer, Color1, Cyan, Magenta, Yellow, CTO, Color, Gobo, RGobo, PrismRot, Frost1, Frost2 Focus, Zoom, Effect, REffect, White, Zoom, Iris, Fr.shutters Rot., Fr.shutter 1 Move., Fr.shutter 1 Swiv., Fr.shutter 2 Move., Fr.shutter 2 Swiv., Fr.shutter 3 Move., Fr.shutter 3 Swiv.,Fr.shutter 4 Move., Fr.shutter 4 Swiv.).Then press the button ENTER to confirm.
- Use the directional buttons to calibrate the effect setting a value between 0 - 255. Then press the button ENTER to confirm.
- Press repeatedly the button MENU to return the menu mode.

ADVANCED

It is possible to modify the following parameters following the same procedure:

- Press the MENU button to access the main menu.
- Press the UP/DOWN button to scroll through the menu, select **Advanced**, then press the ENTER button to enter the next menu.
- Press the UP/DOWN button to select one off the following parametres:
 - Advance Gobo Index: Reduces indexing errors when rotating in different directions of the gob.
 - Advance Focus Index: Reduces indexing errors when moving focus forwards and backwards. This function is disabled by default.
 - Advance Zoom Index: Reduces indexing errors when zooming in/out. This function is deactivated by default.
 - Warm Up Low Temperature: The Warm Up function works as follows:
 - OFF = at power-up the device never warms up;
 - ON = when switched on, the device will always warm up (regardless of the temperature);
 - LOW TEMP VALUE = when switched on, the device will warm up for 10 minutes if it is below a certain temperature threshold. The threshold is user selectable in a range of extremes 0° - 25° (default is set at 20°). During Warm Up the light source is on but the blades are closed, so no light escapes. Once the warm-up is complete, the device restarts and is ready for use.
 - Reset - To start a preset program to restore the selected function (All, Cyan, Magenta, Yellow, CTO, Color, Gobo, Prism, Effect, Focus, Zoom, Frost, Iris, Fr.shutters Rot., Fr.shutter 1 M1, Fr.shutter 1 M2, Fr.shutter 2 M1, Fr.shutter 2 M2, Fr.shutter 3 M1, Fr.shutter 3 M2, Fr.shutter 4 M1, Fr.shutter 4 M2).
 - Adjust - To allows you to change all parameters. Insert the password "050" to enter. Select the desired function (Cyan, Magenta, Yellow, CTO, Color, Gobo, RGobo, Prism, Rot Prism, Effect, Focus, Zoom, Frost 1, Frost 2, Iris, Fr.shutters Rot., Fr.shutter 1 M1,, Fr.shutter 1 M2, Fr.shutter 2

M1, Fr.shutter 2 M2, Fr.shutter 3 M1, Fr.shutter 3 M2, Fr.shutter 4 M1, Fr.shutter 4 M2) and the choose the value (0 - 255).

- Factory Reload - To reset the unit. Select Yes or No and select ENTER to confirm.
- Press the ENTER button to confirm the selection and wait for the selected function to be restored.
- Press the MENU button repeatedly to exit the menu and to save the changes made.

INFORMATION ON THE DEVICE

To view all the information on the device, proceed as follows:

- Press the MENU button to access the main menu. Press the UP/DOWN button to select **Information**, then press the ENTER button to access the next menu.
- Press the UP/DOWN button to scroll through the menu, then select one of the following information and press the ENTER button to display it:- Fixture Time - Through the Fixture Time function, the operating time of the projector can be shown on the display.
 - Fixture Time - To view the operating time of the projector.
 - Temperature - To view the temperature of the device in °C/°F on the display.
 - Fans Speed - to view on the display the fan speed present near the lamp.
 - Software Version - To view the firmware version will show on the display.
 - UID - To view the identification ID for the RDM control.
 - View - Select the View DMX function to display all DMX menu.
- Press the MENU button repeatedly to exit the menu and to save the changes made.

OPERATIONS IN AUTOMATIC MODE

Play Show

The unit independently runs through its show. Before you send an automatic program you need to set the drive as Master/Alone:

- Press the MENU button to access the main menu.
- Press the UP/DOWN button to scroll the menu, select the **Stand Alone**, then press the ENTER button to enter the next menu.
- Press the UP/DOWN button to scroll through the menu, select **Play** and press the ENTER button to enter the next menu.
- Press the UP/DOWN button to scroll through the menu, select **Show** and press ENTER to confirm your choice.
- Press the UP/DOWN button to select the mode of operation: **Show 1, Show 2, Show 3**.
- Press the ENTER button to confirm your choice.
- Press the MENU button repeatedly to exit the menu and save changes.

The unit will go into automatic mode by executing the program automatically.

Play Chase

The function **Chase** lets you choose the automatic program to actually run.

- Press the MENU button to access the main menu.
- Press the UP/DOWN button to scroll the menu, select **Stand Alone**, then press the ENTER button to enter the next menu.
- Press the UP/DOWN button to scroll through the menu, select **Play** and press the ENTER button to enter the next menu.
- Press the UP/DOWN button to scroll through the menu, select **Chase** and press the ENTER button to enter the next menu.
- Press the UP/DOWN button to scroll through the menu, then select **Chase 1 ~ Chase 8** and press ENTER to confirm.
- Press the MENU button repeatedly to exit the menu and save changes.

Play Scenes

The function **Scenes** lets you choose the scene to actually run.

- Press the MENU button to access the main menu.
- Press the UP/DOWN button to scroll the menu, select **Stand Alone**, then press the ENTER button

to enter the next menu.

- Press the UP/DOWN button to scroll through the menu, select **Play** and press the ENTER button to enter the next menu.
- Press the UP/DOWN button to scroll through the menu, select **Scenes** and press the ENTER button to enter the next menu.
- Press the UP/DOWN button to scroll through the menu, then select **Scene 1 ~ Scene 32** and press ENTER to confirm.
- Press the MENU button repeatedly to exit the menu and save changes.

Edit Show

The function **Edit Show** allows you to create individual scenes to be included in the Chase Step.

- Press the MENU button to access the main menu.
- Press the UP/DOWN button to scroll the menu, select **Stand Alone**, then press the ENTER button to enter the next menu.
- Press the UP/DOWN button to scroll through the menu, select **Edit Show** and press the ENTER button to enter the next menu.
- Press the UP/DOWN button to scroll through the menu, select **Show 1/Show 2/Show 3**, then press the ENTER button to confirm.
- Press the UP/DOWN button to scroll through the menu, select **Chase 1 ~ Chase 8**, then press the ENTER button to confirm.
- Press the UP/DOWN button to change the value of the function, then press the ENTER button to confirm.
- Press the MENU button repeatedly to exit the menu and save changes.

Edit Chase

The function **Edit Chase** allows you to create automatic pre-programmed show.

The automatic programs **Chase1 ~ Chase8**. Each Chase can be composed of **1 ~ 16 step** that can be configured through the following procedure:

- Press the MENU button to access the main menu.
- Press the UP/DOWN button to scroll the menu, select the **Stand Alone**, then press the ENTER button to enter the next menu.
- Press the UP/DOWN button to scroll through the menu, select **Edit Chases** and press the ENTER button to enter the next menu.
- Press the UP/DOWN button to scroll through the menu, select **Edit Chase 1 ~ Edit Chase 8**, then press the ENTER button to confirm.
- Press the UP/DOWN button to select the **Step 01 ~ Step 16**, and press ENTER to confirm.
- Press the UP/DOWN button to select the **Scene 1 ~ 32** you want to set for the Step chosen, and then press ENTER to confirm.
- Press the MENU button repeatedly to exit the menu and save changes.

Edit Scenes

The function **Edit Scenes** allows you to create individual scenes to be included in the Chase Step.

- Press the MENU button to access the main menu.
- Press the UP/DOWN button to scroll the menu, select the **Stand Alone**, then press the ENTER button to enter the next menu.
- Press the UP/DOWN button to scroll through the menu, select **Edit Scenes** and press the ENTER button to enter the next menu.
- Press the UP/DOWN button to scroll through the menu, select **Edit Scene 1 ~ Edit Scene 32**, then press the ENTER button to confirm.
- Then choose the desired function: **New / Edit Scene or Copy Scene**.
- Press the UP/DOWN button to select the desired function you want to edit (**Shutter, Dimmer, etc.**), Then press the ENTER button to confirm.
- Press the UP/DOWN button to change the value of the function, then press the ENTER button to confirm.
- Press the MENU button repeatedly to exit the menu and save changes.

Scenes Record

The **Scenes Record** function allows the recording of MOSAICOXL scenes through the console on which the fixture was stored in Scene Record, capable of driving the fixture functions expressed in DMX.

- Press the MENU button to access the main menu.
- Press the UP/DOWN button to scroll through the menu, select **Stand Alone**, then press the ENTER button to enter the next menu.
- Press the UP/DOWN button to scroll through the menu, select **Scenes Record** and press the ENTER button to enter the next menu.
- Press the UP/DOWN button to select the scene to be inserted in the automatic program, then press the ENTER button to confirm.
- Press the UP/DOWN button to select the scene to edit in the automatic program, then press the ENTER button to confirm. After pushing ENTER button, MOSAICOXL will wait for the confirm.
- From the DMX console, change the parameters of the MOSAICOXL based on the scene to be created.
- After creating the scene, press ENTER on the MOSAICOXL (the message STORED will appear).
- Press the MENU button repeatedly to exit the menu and save changes.

Slave Setup

The function **Slave Setup** allows you to execute automatic pre-programmed show set on the master projector.

- Press the MENU button to access the main menu.
- Press the UP/DOWN button to scroll the menu, select **Stand Alone**, then press the ENTER button to enter the next menu.
- Press the UP/DOWN button to scroll through the menu, select **Slave Setup** and press the ENTER button to enter the next menu.
- Press the UP/DOWN button to scroll through the menu, select **Edit Scene 1 ~ Edit Scene 32**, then press the ENTER button to confirm.
- Press the UP/DOWN button to select the desired function you want to edit (**RGobo, Focus, Zoom**), Then press the ENTER button to confirm.
- Press the UP/DOWN button to change the value of the function, then press the ENTER button to confirm.
- Press the MENU button repeatedly to exit the menu and save changes.

NOTE: if the Slave units have to do the same operation as the MASTER, during a recording, the values of **Focus, Zoom** and **RGobo** will not be stored. These values must be adjusted manually on the Slave units, via this section.

Scenes Time

The **Scenes Time** function allows you to set the input, duration and output times of each single scene.

- Press the ENTER key to access the main menu.
- Press the UP / DOWN button to scroll through the menu, select **Stand Alone**, then press the ENTER button to access the next menu.
- Press the UP / DOWN button to select **Scenes Time** and press the ENTER button to access the next menu.
- Press the UP / DOWN button to select **Scene 01 Time ~ Scene 32 Time**, then press the ENTER button.
- Press the UP / DOWN button to change the following times, then press the ENTER button to confirm:
 - Fade in Time - scene entry time.
 - Hold Time - time duration of the scene.
 - Fade Out Time - time out of the scene.

Press the MENU key several times to exit the menu and to save the changes made.

Move blackout

The **Move Blackout** function allows you not to display the scroll between one scene and another; any kind of change between a scene and the next occurs "in the dark".

- Press the ENTER key to access the main menu.

- Press the UP / DOWN button to scroll through the menu, select **Stand Alone**, then press the ENTER button to access the next menu.
- Press the UP / DOWN button to select **Move Blackout** and press the ENTER button to access the next menu.
- Press the UP / DOWN button to select **On** or **Off** then press the ENTER button.
- Press the MENU key several times to exit the menu and to save the changes made.

When the projector is in **Stand Alone** it turns out to be **MASTER**, as well as if you enter or connect the projector to the DMX. When you exit the menu or disconnect the DMX connection, the projector restarts the show execution from the last scene interrupted by these two actions.

DMX 512 MODE

EDIT

Erase DMX Show

The Erase DMX Show function allows you to delete shows and snapshots.

- Press the ENTER key to access the main menu.
- Press the UP / DOWN button to scroll through the menu, select **DMX 512**, then press the ENTER button to access the next menu.
- Press the UP / DOWN button to select **Edit** and press the ENTER button to access the next menu.
- Press the UP / DOWN button to select **Erase DMX Show** and press the ENTER button to access the next menu.
- Press the UP / DOWN key to select the shows and snapshots to be deleted and press the ENTER key to confirm the selection.

Press the MENU key several times to exit the menu and to save the changes made.

Dmx Show Record

Choose this function to record your pre-programmed shows on the playbacks of your DMX console.

- Press the ENTER key to access the main menu.
- Press the UP / DOWN button to scroll through the menu, select **DMX 512**, then press the ENTER button to access the next menu.
- Press the UP / DOWN button to select **Edit** and press the ENTER button to access the next menu.
- Press the UP / DOWN button to select **DMX Show Record** and press the ENTER button to access the next menu.

Press the MENU key several times to exit the menu and to save the changes made.

Snapshot

Choose this function to record your pre-programmed snapshots on the playbacks of your DMX console.

- Press the ENTER key to access the main menu.
- Press the UP / DOWN button to scroll through the menu, select **DMX 512**, then press the ENTER button to access the next menu.
- Press the UP / DOWN button to select **Edit** and press the ENTER button to access the next menu.
- Press the UP / DOWN button to select **Snapshot** and press the ENTER button to access the next menu.

Press the MENU key several times to exit the menu and to save the changes made.

PLAY

Choose this function to run your shows and / or snapshots, recorded on board the MOSAICOXL.

- Press the ENTER key to access the main menu.
- Press the UP / DOWN button to scroll through the menu, select **DMX 512**, then press the ENTER button to access the next menu.
- Press the UP / DOWN button to select **Play** and press the ENTER button to access the next menu.
- Press the UP / DOWN button to select **DMX Show** and / or **Snapshot** and press the ENTER button to select the show and / or snapshot to send to run.

Press the MENU key several times to exit the menu and to save the changes made.

CLOCK SETTING

Choose this function to set the current date and time.

- Press the ENTER key to access the main menu.
- Press the UP / DOWN button to scroll through the menu, select DMX 512, then press the ENTER button to access the next menu.
- Press the UP / DOWN button to select Play and press the ENTER button to access the next menu.
- Press the UP / DOWN button to select Clock Setting and press the ENTER button to access the next menu
- Press Clock Setting to change date and time in current settings; while press Current Time to view them.

Press the MENU key several times to exit the menu and to save the changes made.

SCHEDULE SHOW

To schedule the broadcasting of the various shows and / or snapshots previously created.

- Press the ENTER key to access the main menu.
- Press the UP / DOWN button to scroll through the menu, select DMX 512, then press the ENTER button to access the next menu.
- Press the UP / DOWN button to select Play and press the ENTER button to access the next menu.
- Press the UP / DOWN button to select Schedule Show and press the ENTER button to access the next menu
- Select Week and Time to schedule day (s) and time respectively.

Press the ENTER key to confirm.

NOTE: for the correct use of this section follow the steps described below.

1. Enable the DMX 512 operation. To do this proceed as follows:
 - Press the ENTER key to access the main menu.
 - Press the UP / DOWN button to scroll through the menu, select DMX 512, then press the ENTER button to access the next menu.
 - Press the UP / DOWN button to select On/Off and press the ENTER button to confirm.
2. Delete existing shows and snapshots.
3. Make sure that date and time of the MOSAICOXL are correct. See the paragraph "Clock Setting".
4. Record desired shows and snapshots.
5. Schedule airing and play.
6. DMX 512, if enabled, goes to priority on Stand Alone.

10 - SHORTCUT

KEYS	MODE	DESCRIPTION
MENU + ENTER then power on	Clear All	Clear all value of functions + factory default
UP + DOWN after power on	Flip Display	Directly flip display without enter inside menu

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.

RDM is also available on Wireless and Tiny's Downstead must be enabled in its custom PIDs to work.

Category	Parameter	PID	GET	SET
Product Information	DEVICE_INFO	0x0060	x	
	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
	SOFTWARE_VERSION_LABEL	0x00C0	x	
	BOOT_SOFTWARE_VERSION_ID	0x00C1	x	
	BOOT_SOFTWARE_VERSION_LABEL	0x00C2	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	
	DMX_BLOCK_ADDRESS	0x0140	x	x
	DMX_FAIL_MODE	0x0141	x	x
	DMX_STARTUP_MODE	0x0142	x	x
Dimmer Settings	DIMMER_INFO	0x0340	x	
	MINIMUM_LEVEL	0x0341	x	x
	MAXIMUM_LEVEL	0x0342	x	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	
Sensors	SENSOR_DEFINITION	0x0200	x	
	SENSOR_VALUE	0x0201	x	x
	RECORD_SENSORS	0x0202		x
	BURN_IN	0x0440	x	x

Power/Lamp Settings	DEVICE_HOURS	0x0400	x	x
	LAMP_HOURS	0x0401	x	x
	LAMP_STRIKES	0x0402	x	x
	LAMP_STATE	0x0403	x	x
	LAMP_ON_MODE	0x0404	x	x
	DEVICE_POWER_CYCLES	0x0405	x	x
Display Settings	DISPLAY_INVERT	0x0500	x	x
	DISPLAY_LEVEL	0x0501	x	x
Configuration	REAL_TIME_CLOCK	0x0603	x	x
	LOCK_PIN	0x0640	x	x
	LOCK_STATE	0x0641	x	x
	LOCK_STATE_DESCRIPTION	0x0642	x	
Control	IDENTIFY_DEVICE	0x1000	x	x
	RESET_DEVICE	0x1001		x
	POWER_STATE	0x1010	x	x
	PERFORM_SELFTEST	0x1020	x	x
	SELF_TEST_DESCRIPTION	0x1021	x	
	CAPTURE_PRESET	0x1030	x	x
	PRESET_PLAYBACK	0x1031	x	x
	IDENTIFY_MODE	0x1040	x	x
	PRESET_INFO	0x1041	x	
	PRESET_STATUS	0x1042	x	x
	PRESET_MERGEMODE	0x1043	x	x
	POWER_ON_SELF_TEST	0x1044	x	x
IP & DNS Configuration	IPV4_CURRENT_ADDRESS	0x0705	x	
	IPV4_STATIC_ADDRESS	0x0706	x	x

Custom PIDs

Parameter	PID	GET	SET	Values	Description	Default Value
Clean Device Hours	0x8206	x	x	0-1	"0:No 1:Yes"	0
Play Off	0x8230	x	x	0	0:Off	0
Play Show	0x8231	x	x	1-3	"1:Show 1 2:Show 2 3:Show 3"	1
Play Chase	0x8232	x	x	1-8	"1:Chase 1 ... 8:Chase 8"	1
Play Scence	0x8233	x	x	1-32	"1:Scene 1 ... 32:Scene 32"	1
Scene 01 Fade In Time	0x8234	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 01 Hole Time	0x8235	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 01 Fade Out Time	0x8236	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 02 Fade In Time	0x8237	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 02 Hole Time	0x8238	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 02 Fade Out Time	0x8239	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 03 Fade In Time	0x823A	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S

Parameter	PID	GET	SET	Values	Description	Default Value
Scene 03 Hole Time	0x823B	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 03 Fade Out Time	0x823C	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 04 Fade In Time	0x823D	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 04 Hole Time	0x823E	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 04 Fade Out Time	0x823F	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 05 Fade In Time	0x8240	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 05 Hole Time	0x8241	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 05 Fade Out Time	0x8242	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 06 Fade In Time	0x8243	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 06 Hole Time	0x8244	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 06 Fade Out Time	0x8245	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 07 Fade In Time	0x8246	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 07 Hole Time	0x8247	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 07 Fade Out Time	0x8248	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 08 Fade In Time	0x8249	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 08 Hole Time	0x824A	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 08 Fade Out Time	0x824B	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 09 Fade In Time	0x824C	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 09 Hole Time	0x824D	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 09 Fade Out Time	0x824E	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 10 Fade In Time	0x824F	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 10 Hole Time	0x8250	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 10 Fade Out Time	0x8251	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 11 Fade In Time	0x8252	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 11 Hole Time	0x8253	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 11 Fade Out Time	0x8254	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 12 Fade In Time	0x8255	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 12 Hole Time	0x8256	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 12 Fade Out Time	0x8257	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 13 Fade In Time	0x8258	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 13 Hole Time	0x8259	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 13 Fade Out Time	0x825A	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 14 Fade In Time	0x825B	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 14 Hole Time	0x825C	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 14 Fade Out Time	0x825D	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 15 Fade In Time	0x825E	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 15 Hole Time	0x825F	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 15 Fade Out Time	0x8260	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 16 Fade In Time	0x8261	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 16 Hole Time	0x8262	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 16 Fade Out Time	0x8263	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 17 Fade In Time	0x8264	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 17 Hole Time	0x8265	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 17 Fade Out Time	0x8266	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 18 Fade In Time	0x8267	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 18 Hole Time	0x8268	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 18 Fade Out Time	0x8269	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 19 Fade In Time	0x826A	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S

Parameter	PID	GET	SET	Values	Description	Default Value
Scene 19 Hole Time	0x826B	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 19 Fade Out Time	0x826C	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 20 Fade In Time	0x826D	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 20 Hole Time	0x826E	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 20 Fade Out Time	0x826F	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 21 Fade In Time	0x8270	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 21 Hole Time	0x8271	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 21 Fade Out Time	0x8272	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 22 Fade In Time	0x8273	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 22 Hole Time	0x8274	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 22 Fade Out Time	0x8275	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 23 Fade In Time	0x8276	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 23 Hole Time	0x8277	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 23 Fade Out Time	0x8278	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 24 Fade In Time	0x8279	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 24 Hole Time	0x827A	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 24 Fade Out Time	0x827B	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 25 Fade In Time	0x827C	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 25 Hole Time	0x827D	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 25 Fade Out Time	0x827E	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 26 Fade In Time	0x827F	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 26 Hole Time	0x8280	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 26 Fade Out Time	0x8281	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 27 Fade In Time	0x8282	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 27 Hole Time	0x8283	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 27 Fade Out Time	0x8284	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 28 Fade In Time	0x8285	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 28 Hole Time	0x8286	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 28 Fade Out Time	0x8287	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 29 Fade In Time	0x8288	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 29 Hole Time	0x8289	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 29 Fade Out Time	0x828A	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 30 Fade In Time	0x828B	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 30 Hole Time	0x828C	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 30 Fade Out Time	0x828D	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 31 Fade In Time	0x828E	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 31 Hole Time	0x828F	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 31 Fade Out Time	0x8290	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 32 Fade In Time	0x8291	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 32 Hole Time	0x8292	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 32 Fade Out Time	0x8293	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Chase 1 Time	0x8294	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Chase 2 Time	0x8295	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Chase 3 Time	0x8296	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Chase 4 Time	0x8297	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Chase 5 Time	0x8298	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Chase 6 Time	0x8299	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Chase 7 Time	0x829A	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S

Parameter	PID	GET	SET	Values	Description	Default Value
Chase 8 Time	0x829B	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Move with blackout-Scene 01	0x829C	x	x	0-1	0:Off 1:On	Off
Move with blackout-Scene 02	0x829D	x	x	0-1	0:Off 1:On	Off
Move with blackout-Scene 03	0x829E	x	x	0-1	0:Off 1:On	Off
Move with blackout-Scene 04	0x829F	x	x	0-1	0:Off 1:On	Off
Move with blackout-Scene 05	0x82A0	x	x	0-1	0:Off 1:On	Off
Move with blackout-Scene 06	0x82A1	x	x	0-1	0:Off 1:On	Off
Move with blackout-Scene 07	0x82A2	x	x	0-1	0:Off 1:On	Off
Move with blackout-Scene 08	0x82A3	x	x	0-1	0:Off 1:On	Off
Move with blackout-Scene 09	0x82A4	x	x	0-1	0:Off 1:On	Off
Move with blackout-Scene 10	0x82A5	x	x	0-1	0:Off 1:On	Off
Move with blackout-Scene 11	0x82A6	x	x	0-1	0:Off 1:On	Off
Move with blackout-Scene 12	0x82A7	x	x	0-1	0:Off 1:On	Off
Move with blackout-Scene 13	0x82A8	x	x	0-1	0:Off 1:On	Off
Move with blackout-Scene 14	0x82A9	x	x	0-1	0:Off 1:On	Off
Move with blackout-Scene 15	0x82AA	x	x	0-1	0:Off 1:On	Off
Move with blackout-Scene 16	0x82AB	x	x	0-1	0:Off 1:On	Off
Move with blackout-Scene 17	0x82AC	x	x	0-1	0:Off 1:On	Off
Move with blackout-Scene 18	0x82AD	x	x	0-1	0:Off 1:On	Off
Move with blackout-Scene 19	0x82AE	x	x	0-1	0:Off 1:On	Off
Move with blackout-Scene 20	0x82AF	x	x	0-1	0:Off 1:On	Off
Move with blackout-Scene 21	0x82B0	x	x	0-1	0:Off 1:On	Off
Move with blackout-Scene 22	0x82B1	x	x	0-1	0:Off 1:On	Off
Move with blackout-Scene 23	0x82B2	x	x	0-1	0:Off 1:On	Off
Move with blackout-Scene 24	0x82B3	x	x	0-1	0:Off 1:On	Off
Move with blackout-Scene 25	0x82B4	x	x	0-1	0:Off 1:On	Off
Move with blackout-Scene 26	0x82B5	x	x	0-1	0:Off 1:On	Off
Move with blackout-Scene 27	0x82B6	x	x	0-1	0:Off 1:On	Off
Move with blackout-Scene 28	0x82B7	x	x	0-1	0:Off 1:On	Off
Move with blackout-Scene 29	0x82B8	x	x	0-1	0:Off 1:On	Off
Move with blackout-Scene 30	0x82B9	x	x	0-1	0:Off 1:On	Off
Move with blackout-Scene 31	0x82BA	x	x	0-1	0:Off 1:On	Off
Move with blackout-Scene 32	0x82BB	x	x	0-1	0:Off 1:On	Off
DMX512 Show	0x82CF	x	x	0-24	0:Off/1-8:Show1-8/9-24:Snap1-16	Off
ADV GOBO INDEX	0x82D0	x	x	0-1	0:Off 1:On	Off
ADV. FOCUS INDEX	0x82D1	x	x	0-1	0:Off 1:On	Off
ADV. ZOOM INDEX	0x82D2	x	x	0-1	0:Off 1:On	Off
WARM UP LOW TEMP	0x82D3	x	x	0-1	0:Off 1:On	Off
LOW TEMP VALUE	0xTBC	x	x	0-24	0°-25°	20°
DMX FAULT	0x82DD	x	x	0-1	0:Hold 1:Stand Alone	Hold

12 - DMX CHARTS

Ch	28CH	30CH	35CH	44CH	Record Scenes
1	SHUTTER	SHUTTER	SHUTTER	SHUTTER	SHUTTER
2	DIMMER	DIMMER	DIMMER	DIMMER	DIMMER
3	CYAN	CYAN	DIMMER FINE	DIMMER FINE	DIMMER FINE
4	MAGENTA	MAGENTA	CYAN	CYAN	CYAN
5	YELLOW	YELLOW	MAGENTA	MAGENTA	MAGENTA
6	CTO	CTO	YELLOW	YELLOW	YELLOW
7	COLOR	COLOR	CTO	CTO	CTO
8	ROTATING GOBO WHEEL	ROTATING GOBO WHEEL	COLOR	COLOR	COLOR
9	RGOBO	RGOBO	ROTATING GOBO WHEEL	ROTATING GOBO WHEEL	ROTATING GOBO WHEEL
10	PRISM ROT	PRISM	RGOBO	RGOBO	RGOBO
11	FROST 1	RPRISM	PRISM ROT	RGOBO FINE	PRISM ROT
12	FROST 2	FROST 1	FROST 1	PRISM	FROST 1
13	FOCUS	FROST 2	FROST 2	RPRISM	FROST 2
14	ZOOM	FOCUS	FOCUS	RPRISM FINE	FOCUS
15	ANIMATION WHEEL	ZOOM	FOCUS FINE	FROST 1	FOCUS FINE
16	IRIS	ANIMATION	ZOOM	FROST 2	ZOOM
17	FRAMING SHUTTER 1 MOVEMENT	ANIMATION ROTATION	ZOOM FINE	FOCUS	ZOOM FINE
18	FRAMING SHUTTER 1 SWIVELLING	IRIS	ANIMATION	FOCUS FINE	ANIMATION
19	FRAMING SHUTTER 2 MOVEMENT	FRAMING SHUTTER 1 MOVEMENT	ANIMATION ROTATION	ZOOM	ANIMATION ROTATION
20	FRAMING SHUTTER 2 SWIVELLING	FRAMING SHUTTER 1 SWIVELLING	IRIS	ZOOM FINE	IRIS
21	FRAMING SHUTTER 3 MOVEMENT	FRAMING SHUTTER 2 MOVEMENT	FRAMING SHUTTER 1 MOVEMENT	ANIMATION	FRAMING SHUTTER 1 MOVEMENT
22	FRAMING SHUTTER 3 SWIVELLING	FRAMING SHUTTER 2 SWIVELLING	FRAMING SHUTTER 1 SWIVELLING	ANIMATION ROTATION	FRAMING SHUTTER 1 SWIVELLING
23	FRAMING SHUTTER 4 MOVEMENT	FRAMING SHUTTER 3 MOVEMENT	FRAMING SHUTTER 2 MOVEMENT	IRIS	FRAMING SHUTTER 2 MOVEMENT
24	FRAMING SHUTTER 4 SWIVELLING	FRAMING SHUTTER 3 SWIVELLING	FRAMING SHUTTER 2 SWIVELLING	FRAMING SHUTTER 1 MOVEMENT	FRAMING SHUTTER 2 SWIVELLING
25	FRAMING SHUTTERS ROTATION	FRAMING SHUTTER 4 MOVEMENT	FRAMING SHUTTER 3 MOVEMENT	FRAMING SHUTTER 1 MOVEMENT FINE	FRAMING SHUTTER 3 MOVEMENT
26	SHUTTERS MACROS	FRAMING SHUTTER 4 SWIVELLING	FRAMING SHUTTER 3 SWIVELLING	FRAMING SHUTTER 1 SWIVELLING	FRAMING SHUTTER 3 SWIVELLING
27	SHUTTERS MACRO SPEED	FRAMING SHUTTERS ROTATION	FRAMING SHUTTER 4 MOVEMENT	FRAMING SHUTTER 1 SWIVELLING FINE	FRAMING SHUTTER 4 MOVEMENT
28	CONTROL	SHUTTERS MACROS	FRAMING SHUTTER 4 SWIVELLING	FRAMING SHUTTER 2 MOVEMENT	FRAMING SHUTTER 4 SWIVELLING
29		SHUTTERS MACRO SPEED	FRAMING SHUTTERS ROTATION	FRAMING SHUTTER 2 MOVEMENT FINE	FRAMING SHUTTERS ROTATION
30		CONTROL	SHUTTERS MACROS	FRAMING SHUTTER 2 SWIVELLING	SHUTTERS MACROS
31			SHUTTERS MACRO SPEED	FRAMING SHUTTER 2 SWIVELLING FINE	SHUTTERS MACRO SPEED
32			SHOW	FRAMING SHUTTER 3 MOVEMENT	
33			CHASE	FRAMING SHUTTER 3 MOVEMENT FINE	
34			SCENES	FRAMING SHUTTER 3 SWIVELLING	
35			RECORD SCENES	FRAMING SHUTTER 3 SWIVELLING FINE	

36				FRAMING SHUTTER 4 MOVEMENT	
37				FRAMING SHUTTER 4 MOVEMENT FINE	
38				FRAMING SHUTTER 4 SWIVELLING	
39				FRAMING SHUTTER 4 SWIVELLING FINE	
40				FRAMING SHUTTERS ROTATION	
41				FRAMING SHUTTER ROTATION FINE	
42				SHUTTERS MACROS	
43				SHUTTERS MACRO SPEED	
44				CONTROL	

28CH	30CH	35CH	44CH	Record Scenes	Function	DMX Value	Default
1	1	1	1	1	SHUTTER Shutter closed No function (shutter open) Strobe effect slow to fast No function (shutter open) Pulse-effect in sequences No function (shutter open) Random strobe effect slow to fast No function (shutter open)	000 - 031 032 - 063 064 - 095 096 - 127 128 - 159 160 - 191 192 - 223 224 - 255	255
2	2	2	2	2	DIMMER 0% to 100% (close to open)	000 - 255	000
		3	3	3	DIMMER FINE 0% to 100% (close to open)	000 - 255	000
3	3	4	4	4	CYAN 0% to 100%	000 - 255	000
4	4	5	5	5	MAGENTA 0% to 100%	000 - 255	000
5	5	6	6	6	YELLOW 0% to 100%	000 - 255	000
6	6	7	7	7	CTO 0% to 100%	000 - 255	000
7	7	8	8	8	COLOR Open Open+Color1 Color1 Color1+Color2 Color2 Color2+ Color3 Color3 Color3+ Color4 Color4 Color4+Color5 Color5 Color5+ Color6 Color6 Color6+ Open Stop to fast(Forward Spin) Fast to stop(Revers Spin) Positioning from 0-360 degrees(Indexing)	000 - 004 005 - 009 010 - 013 014 - 018 019 - 022 023 - 027 028 - 031 032 - 036 037 - 040 041 - 045 046 - 049 050 - 054 055 - 058 059 - 063 064 - 095 096 - 127 128 - 255	000
8	8	9	9	9	ROTATING GOBO WHEEL Open Position 1 Position 2 Position 3 Position 4 Position 5 Position 6 Position 7 Position 1 Shaking slow to fast Position 2 Shaking slow to fast Position 3 Shaking slow to fast Position 4 Shaking slow to fast Position 5 Shaking slow to fast Position 6 Shaking slow to fast Position 7 Shaking slow to fast Stop to fastest (Forward Wheel Spin) Stop to fastest (Reverse Wheel Spin)	000 - 005 006 - 010 011 - 015 016 - 020 021 - 025 026 - 030 031 - 035 036 - 040 041 - 055 056 - 070 071 - 085 086 - 100 101 - 115 116 - 130 131 - 145 146 - 200 201 - 255	000
9	9	10	10	10	RGOBO Positioning from 0-360 degrees (Indexing) Fast to Slow Stop Slow to Fast	000 - 191 192 - 221 222 - 225 226 - 255	000
			11		RGOBO FINE RGobo Fine	000 - 255	000

28CH	30CH	35CH	44CH	Record Scenes	Function	DMX Value	Default
10		11		11	PRISM ROT Prism Off Index Fast to Slow Stop Slow to Fast	000 - 000 001 - 127 128 - 189 190 - 193 194 - 255	000
	10		12		PRISM Prism Off Indexed Rotation	000 - 020 021 - 127 128 - 255	000
	11		13		PRISM Indexed	000 - 255	000
					Fast to Slow Stop Slow to Fast	000 - 127 128 129 - 255	128
			14		RPRISM FINE RPrism Fine	000 - 255	000
11	12	12	15	12	FROST 1 0% to 100%	000 - 255	000
12	13	13	16	13	FROST 2 0% to 100%	000 - 255	000
13	14	14	17	14	FOCUS	000 - 255	000
		15	18	15	FOCUS FINE	000 - 255	000
14	15	16	19	16	ZOOM	000 - 255	000
		17	20	17	ZOOM FINE	000 - 255	000
15					ANIMATION WHEEL Open/No Function Forward stop to fastest Stop Reverse stop to fastest	000 - 003 004 - 127 128 - 131 132 - 255	000
	16	16	21	18	ANIMATION Effect Off Linear insertion	000 - 007 008 - 255	000
	17	19	22	19	ANIMATION ROTATION Stop Fastest to Slowest(Forward Spin) Stop Slowest to fastest(Reverse Spin)	000 - 127 128 - 189 190 - 193 194 - 255	000
16	18	20	23	20	IRIS From large to small Open and close by arrive slow to fast (Effects) Open from slow to fast (Effects) Close from slow to fast (Effects)	000 - 063 064 - 127 128 - 191 192 - 255	000
17	19	21	24	21	FRAMING SHUTTER 1 MOVENT Movement from outward to inward	000 - 255	000
			25		FRAMING SHUTTER 1 MOVENT FINE	000 - 255	000
18	20	22	26	22	FRAMING SHUTTER 1 SWIVELLING Swivelling from -25 degrees towards 0 degrees 0 degrees Swivelling from 0 degrees to +25 degrees	000-127 128 129-255	128
			27		FRAMING SHUTTER 1 SWIVELLING FINE	000 - 255	000
19	21	23	28	23	FRAMING SHUTTER 2 MOVENT Movement from outward to inward	000 - 255	000

28CH	30CH	35CH	44CH	Record Scenes	Function	DMX Value	Default
			29		FRAMING SHUTTER 2 MOVENT FINE	000 - 255	000
20	22	24	30	24	FRAMING SHUTTER 2 SWIVELLING Swivelling from -25 degrees towards 0 degrees 0 degrees Swivelling from 0 degrees to +25 degrees	000-127 128 129-255	128
			31		FRAMING SHUTTER 2 SWIVELLING FINE	000 - 255	000
21	23	25	32	25	FRAMING SHUTTER 3 MOVENT Movement from outward to inward	000 - 255	000
			33		FRAMING SHUTTER 3 MOVENT FINE	000 - 255	000
22	24	26	34	26	FRAMING SHUTTER 3 SWIVELLING Swivelling from -25 degrees towards 0 degrees 0 degrees Swivelling from 0 degrees to +25 degrees	000-127 128 129-255	128
			35		FRAMING SHUTTER 3 SWIVELLING FINE	000 - 255	000
23	25	27	36	27	FRAMING SHUTTER 4 MOVENT Movement from outward to inward	000 - 255	000
			37		FRAMING SHUTTER 4 MOVENT FINE	000 - 255	000
24	26	28	38	28	FRAMING SHUTTER 4 SWIVELLING Swivelling from -25 degrees towards 0 degrees 0 degrees Swivelling from 0 degrees to +25 degrees	000-127 128 129-255	128
			39		FRAMING SHUTTER 4 SWIVELLING FINE	000 - 255	000
25	27	29	40	29	FRAMING SHUTTERS ROTATION Rotation from left to center Center Rotation from center to right	000-127 128 129-255	128
			41		FRAMING SHUTTERS ROTATION FINE	000 - 255	000
26	28	30	42	30	SHUTTERS MACROS No Function Macro 1 Macro 2 Macro 3 Macro 4 Macro 5 Macro 6 Macro 7 Macro 8 Macro 9 Macro 10 Macro 11 Macro 12 Macro 13 Macro 14 Macro 15 Macro 16 Macro 17 Macro 18 Macro 19 Macro 20 Macro 21 Macro 22 Macro 23 Macro 24 Macro 25 Macro 26 Macro 27 Macro 28 Macro 29 Macro 30 Macro 31 Macro 32 Macro 33 Macro 34 Macro 35	000 - 003 004 - 011 012 - 018 019 - 025 026 - 032 033 - 039 040 - 047 048 - 054 055 - 061 062 - 068 069 - 075 076 - 082 083 - 090 091 - 097 098 - 104 105 - 111 112 - 118 119 - 125 126 - 133 134 - 140 141 - 147 148 - 155 156 - 161 162 - 168 169 - 176 177 - 183 184 - 190 191 - 197 198 - 204 205 - 211 212 - 219 220 - 226 227 - 233 234 - 240 241 - 247 248 - 255	000

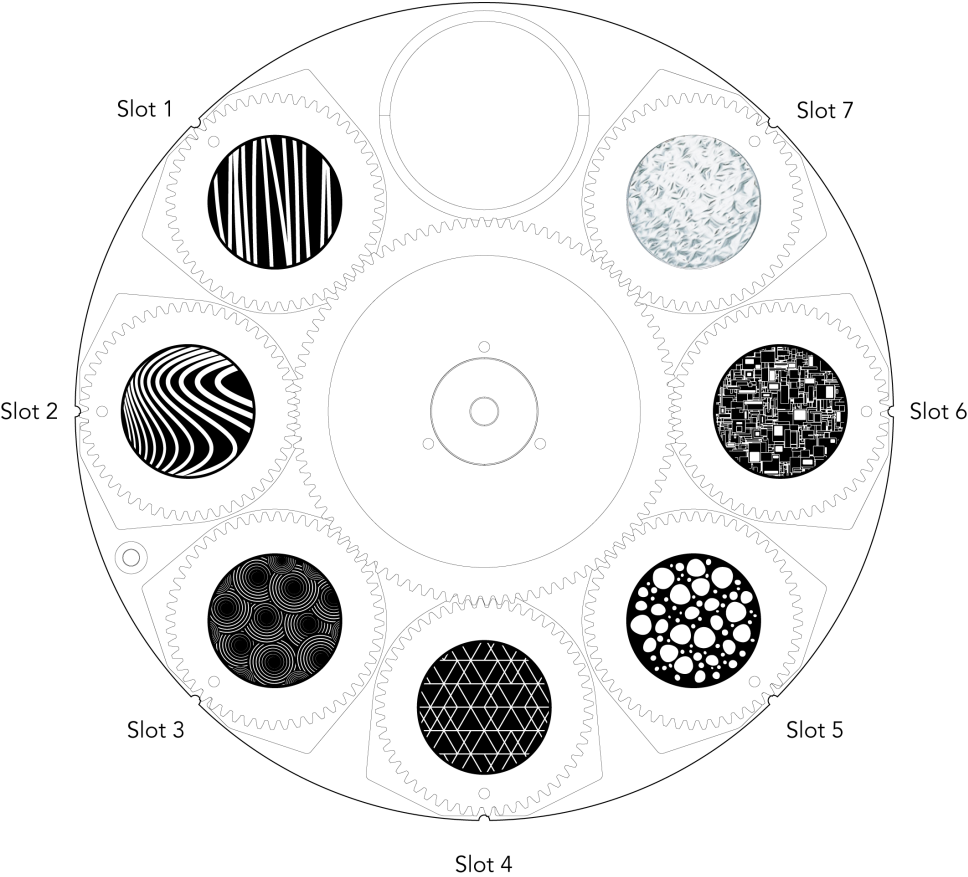
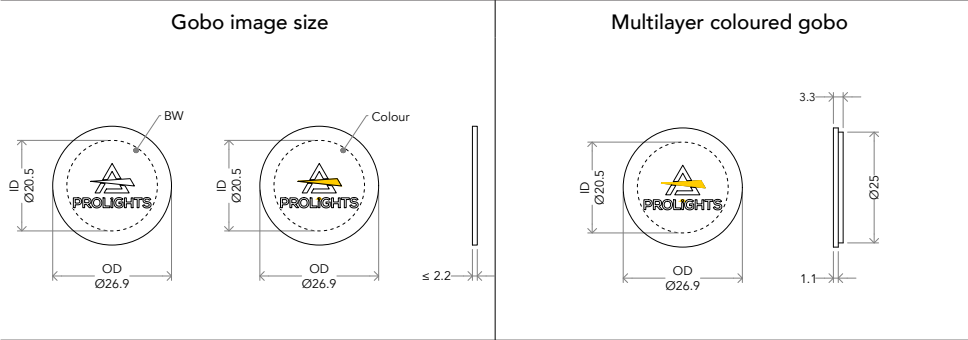
28CH	30CH	35CH	44CH	Record Scenes	Function	DMX Value	Default
27	29	31	43	31	SHUTTERS MACROS SPEED Speed From Slow to Fast	000 - 255	000
28	30		44		CONTROL No function Enable blackout while color change (Hold 3 Second) Disable blackout while color change (Hold 3 Second) Enable blackout while gobo change (Hold 3 Second) Disable blackout while gobo change (Hold 3 Second) Cyan/Magenta/Yellow/CTO/Color Reset (Hold 3 Second) Shutters Reset (Hold 3 Second) Gobo Reset (Hold 3 Second) Prism Reset (Hold 3 Second) Focus Reset (Hold 3 Second) Zoom Reset (Hold 3 Second) Frost Reset (Hold 3 Second) Effect Reset (Hold 3 Second) ADV. GOBO INDEX ON ADV. GOBO INDEX OFF ADV. FOCUS INDEX ON ADV. FOCUS INDEX OFF ADV. ZOOM INDEX ON ADV. ZOOM INDEX OFF WARM UP LOW TEMP ON WARM UP LOW TEMP OFF WARM UP LOW TEMP VALUE No function Reset all (Hold 3 Second) Advanced gobo wheel On Advanced gobo wheel Off DMX Fault Hold DMX Fault Stand Alone No function	000-059 060-069 070-079 080-089 090-099 100-119 110-119 120-129 130-139 140-149 150-159 160-169 170-179 180-181 182-183 184-185 186-187 188-189 190-191 192-193 194-195 196-197 198-199 200-209 210-211 212-213 214-215 216-217 218-255	000
		32			SHOW No Function Show 1 Show 2 Show 3	000 - 063 064 - 127 128 - 191 192 - 255	000
		33			CHASE No Function Chase 1 Chase 2 Chase 3 Chase 4 Chase 5 Chase 6 Chase 7 Chase 8	000 - 028 029 - 056 057 - 085 086 - 113 114 - 141 142 - 170 171 - 198 199 - 226 227 - 255	000

28CH	30CH	35CH	44CH	Record Scenes	Function	DMX Value	Default
		34			SCENES No Function Scene 1 Scene 2 Scene 3 Scene 4 Scene 5 Scene 6 Scene 7 Scene 8 Scene 9 Scene 10 Scene 11 Scene 12 Scene 13 Scene 14 Scene 15 Scene 16 Scene 17 Scene 18 Scene 19 Scene 20 Scene 21 Scene 22 Scene 23 Scene 24	000 - 007 008 - 015 016 - 023 024 - 030 031 - 038 039 - 046 047 - 054 055 - 061 062 - 069 070 - 077 078 - 085 086 - 092 093 - 100 101 - 108 109 - 115 116 - 123 124 - 131 132 - 139 140 - 146 147 - 154 155 - 162 163 - 170 171 - 177 178 - 185 186 - 193	000
		34			Scene 25 Scene 26 Scene 27 Scene 28 Scene 29 Scene 30 Scene 31 Scene 32	194 - 200 201 - 208 209 - 216 217 - 224 225 - 231 232 - 239 240 - 247 248 - 255	000
		35			SCENE RECORD No Function Edit Scene Mode Edit Scene Mode (Hold 3S and Save)	000 - 010 011 - 128 129 - 255	000

NOTE: for RECORD SCENE function follow the steps described below:

1. Select a scene from 1 to 32 with the SCENES function by setting a value from 032 to 255 of DMX Channel 30 (in Standard mode) or DMX Channel 41 (in Extended mode);
2. To save the scene at the previously selected position set a value from 171 to 255 on DMX Channel 31 (in Standard Mode) or DMX Channel 31 (in Extended Mode);
3. Hold the DMX value set in step 2 for 3 seconds.

13 - GOBOS WHEEL



ATTENTION! Insert gobos with mirror surface toward the light source.

Fig. 11

14 - COLOR WHEEL

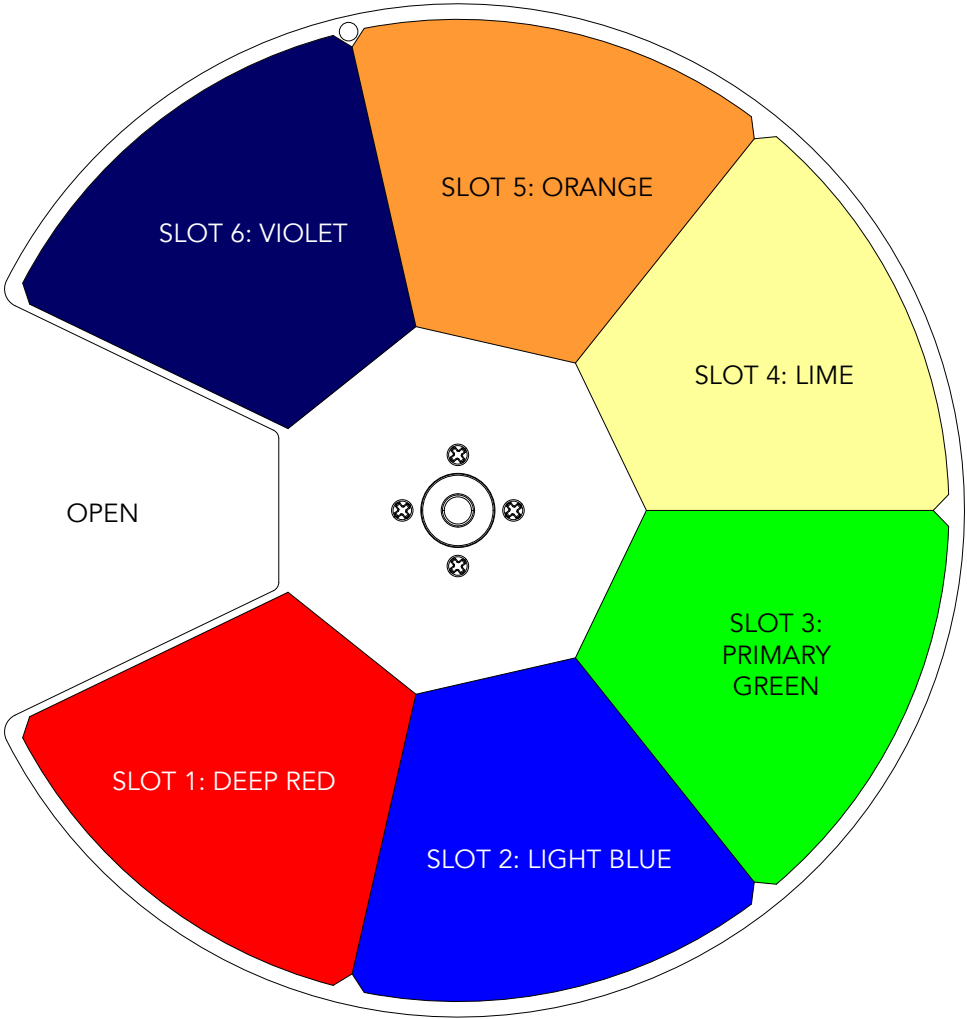


Fig. 12

15 - ANIMATION WHEEL

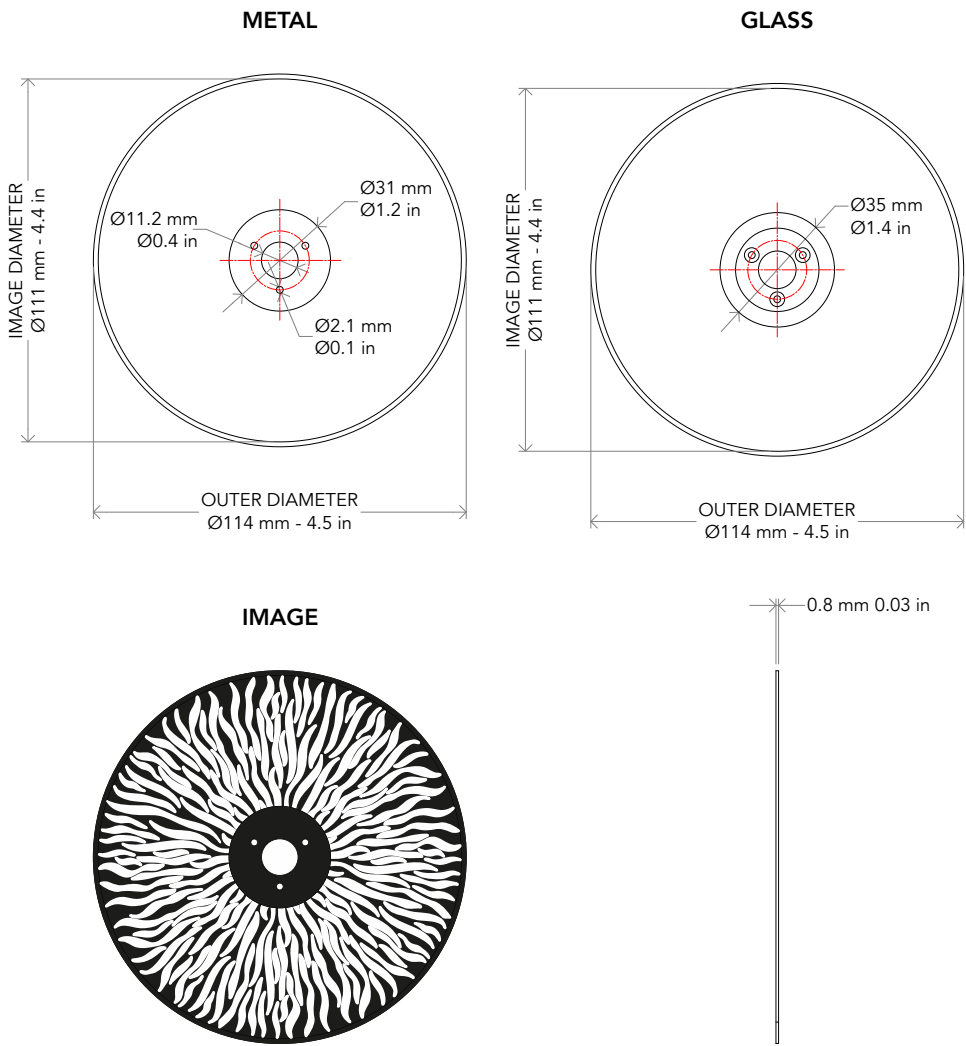
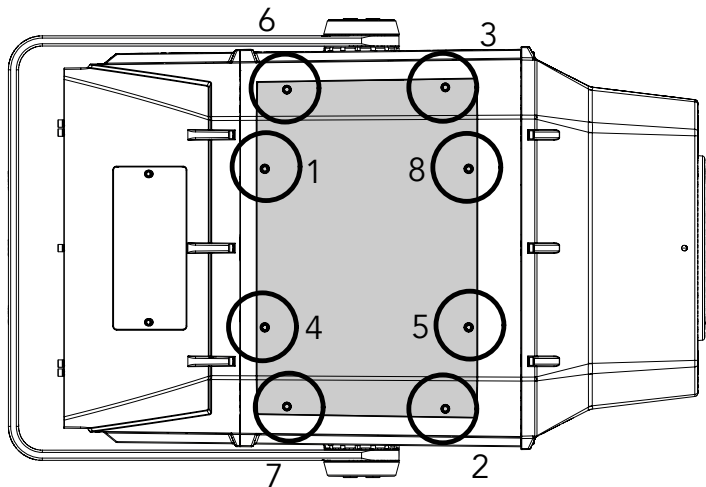


Fig. 13

16 - REPLACING THE ANIMATION WHEEL

WARNING! Turn OFF power and allow approximately 20 minutes for the fixture to cool down.

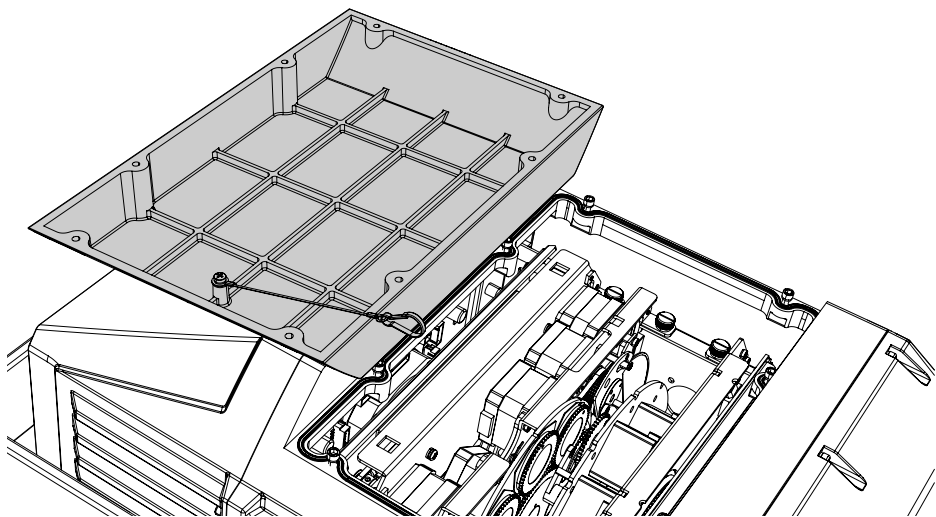
1



Remove the marked eight screws of the top protective cover following the order 1-8 (1).

NOTE: When closing the top cover, first lightly tighten all the screws, then fully tighten them in the order of 1-8 (1), ensuring that the rubber gasket is properly compressed.

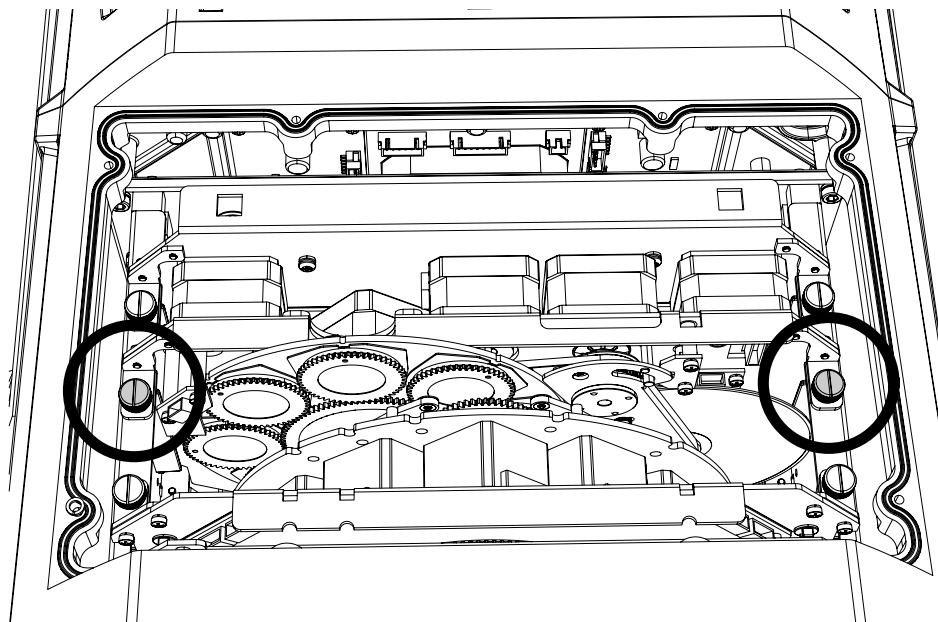
2



Lift the top cover off the fixture. For ease of access, and if it is safe to do so, you can unclip the safety cable and remove the cover completely from the fixture.

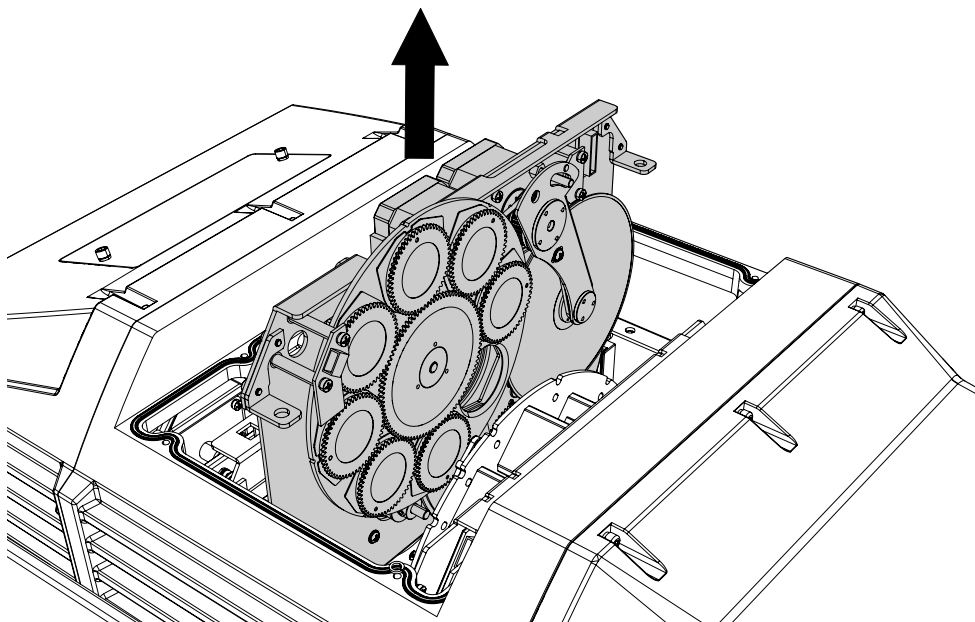
Please turn! →

3



Use a flat screwdriver to remove the marked two screws (3).

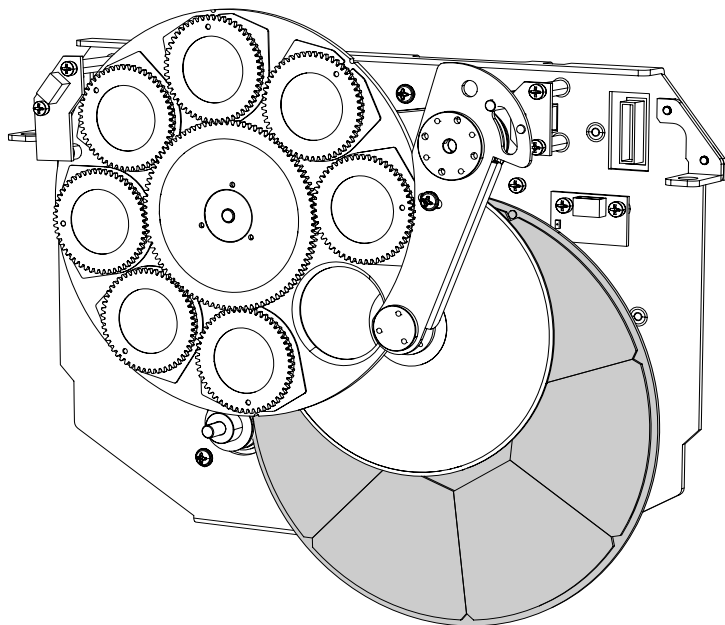
4



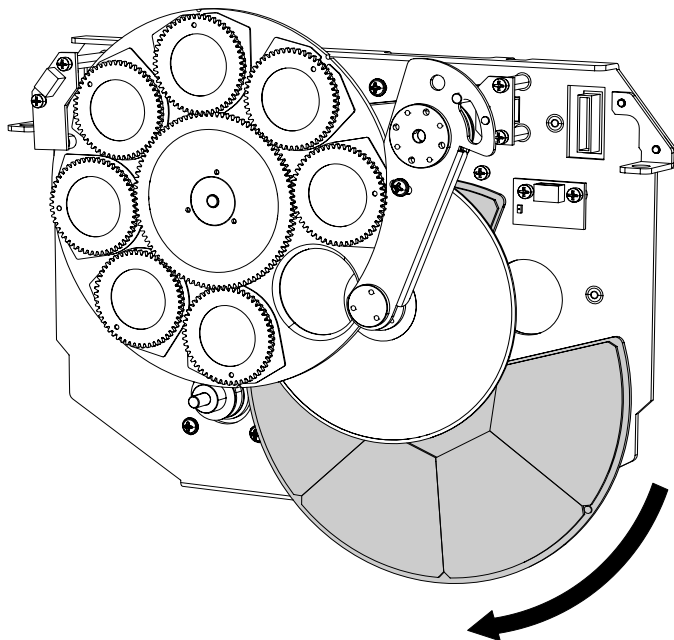
Then gently remove the module (4).

Please turn! →

5

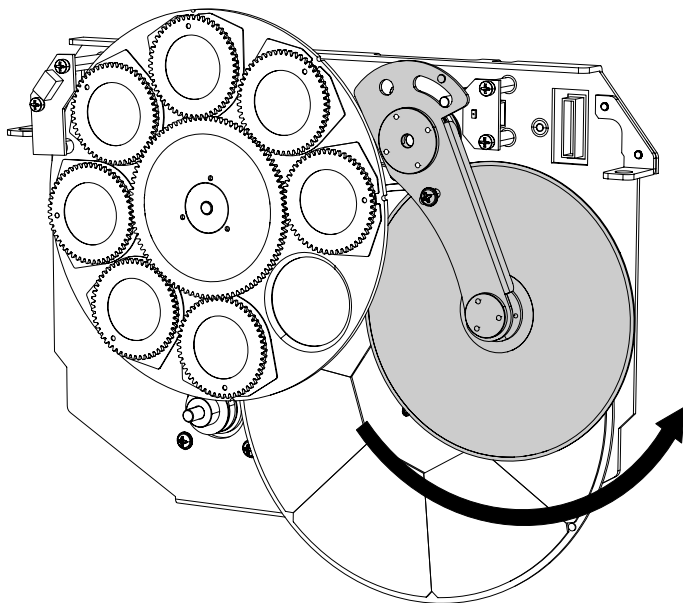


6

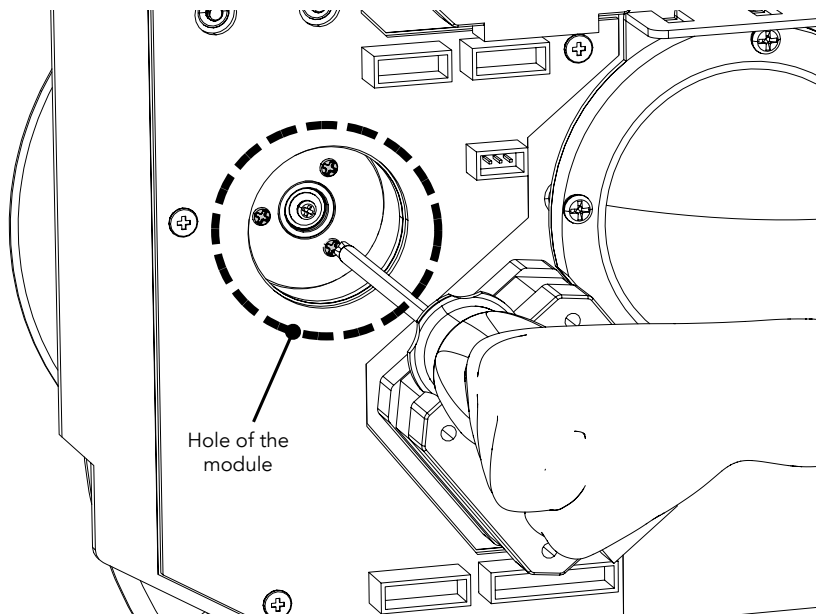


Move the marked color wheel so that the open coincides with the hole of the module (6).

Please turn! →



Move the marked animation wheel so that the center coincides with the hole of the module (7).



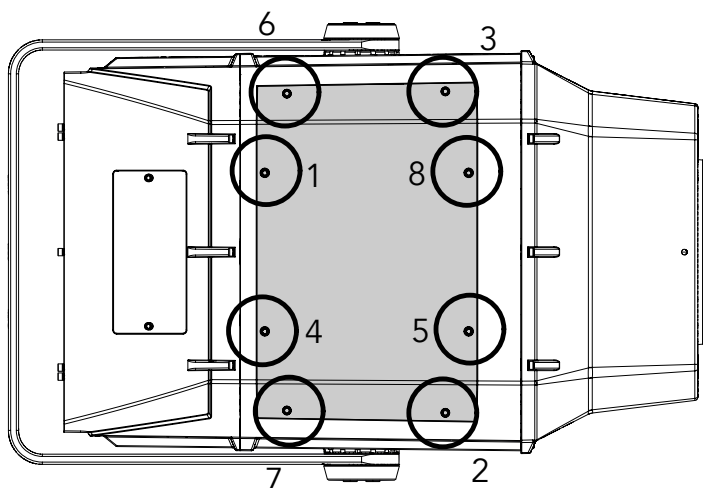
Use a flat screwdriver to remove the marked three screws (8). Then gently remove the module and replace it with a new one. Insert the module inside the product following the reverse procedure.

Fig. 14

17 - REPLACING THE COLOR FILTERS

WARNING! Turn OFF power and allow approximately 20 minutes for the fixture to cool down.

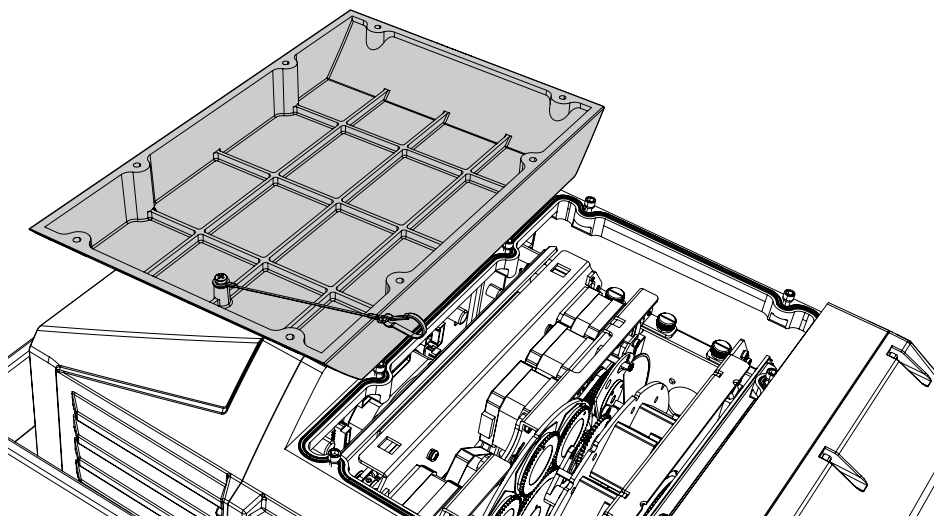
1



Remove the marked eight screws of the top protective cover following the order 1-8 (1).

NOTE: When closing the top cover, first lightly tighten all the screws, then fully tighten them in the order of 1-8 (1), ensuring that the rubber gasket is properly compressed.

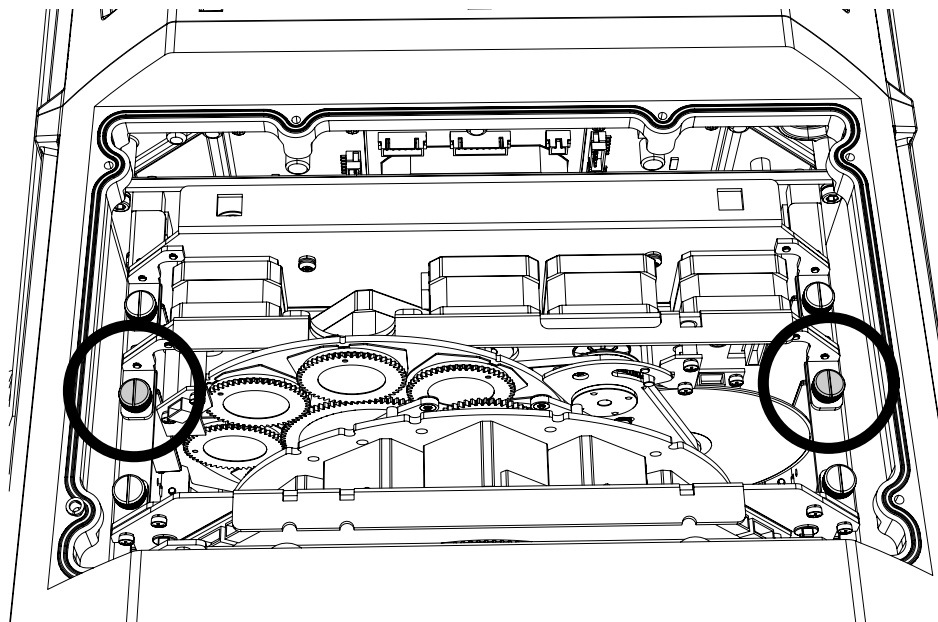
2



Lift the top cover off the fixture. For ease of access, and if it is safe to do so, you can unclip the safety cable and remove the cover completely from the fixture.

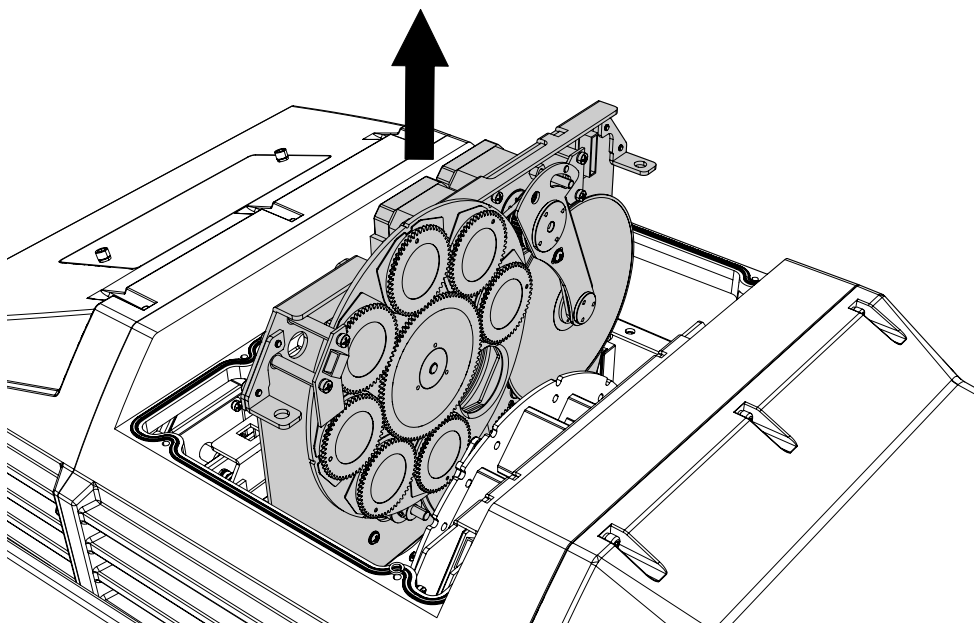
Please turn! →

3



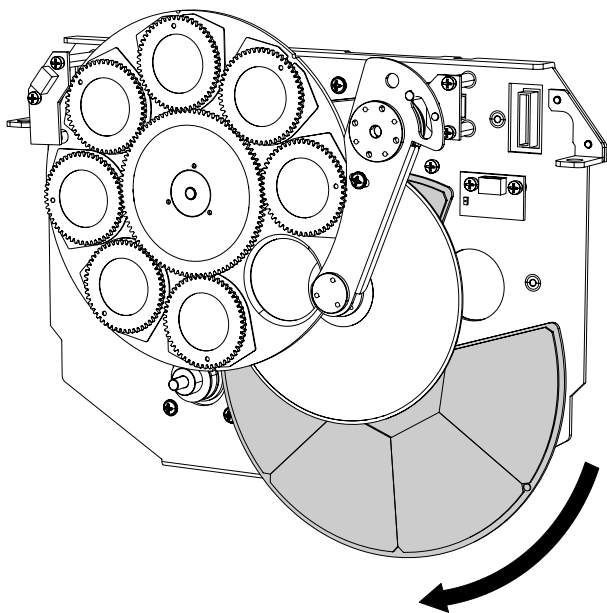
Use a flat screwdriver to remove the marked two screws (3).

4

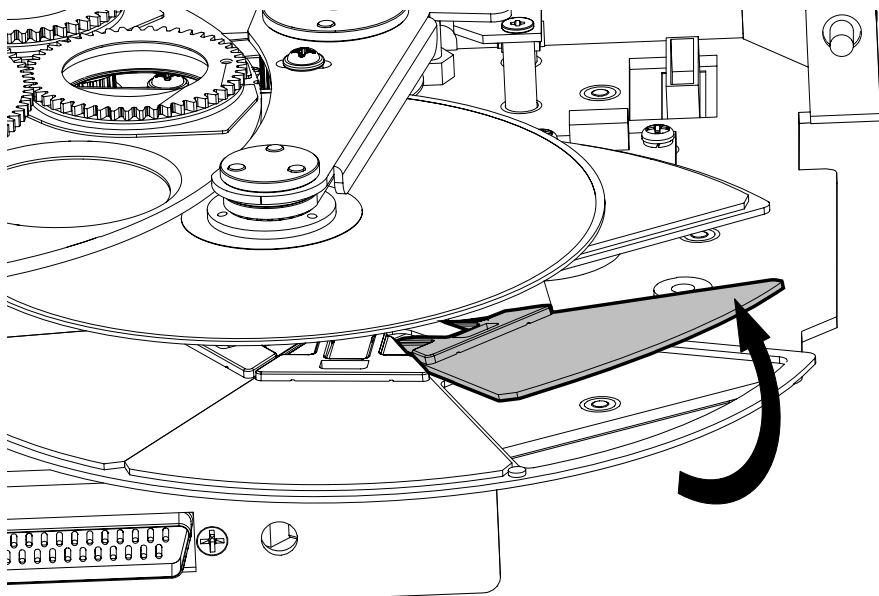


Then gently remove the module (4).

Please turn! →



Move the marked color wheel until you have access to the color filter to be replaced (5).

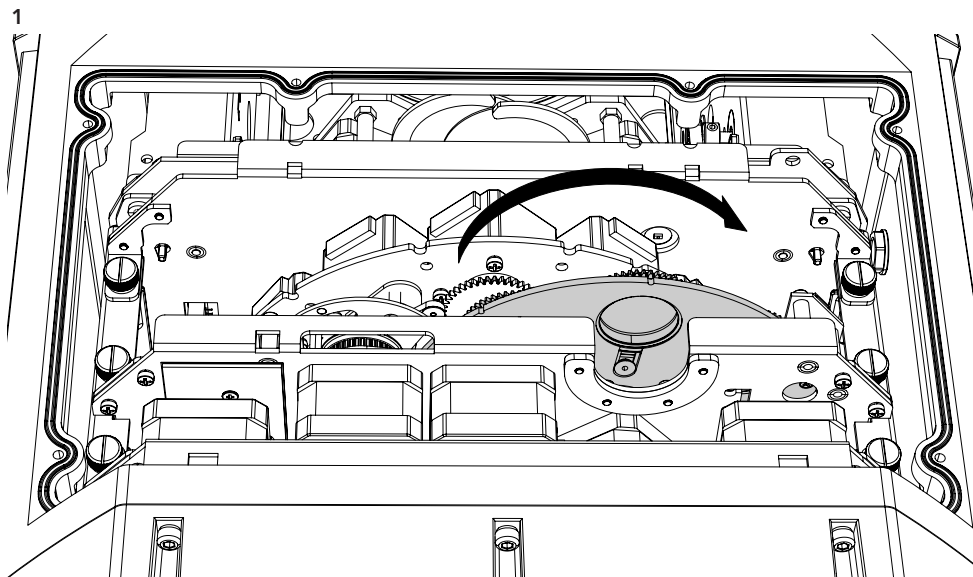


Gently replace the color filter as shown in figure (6).

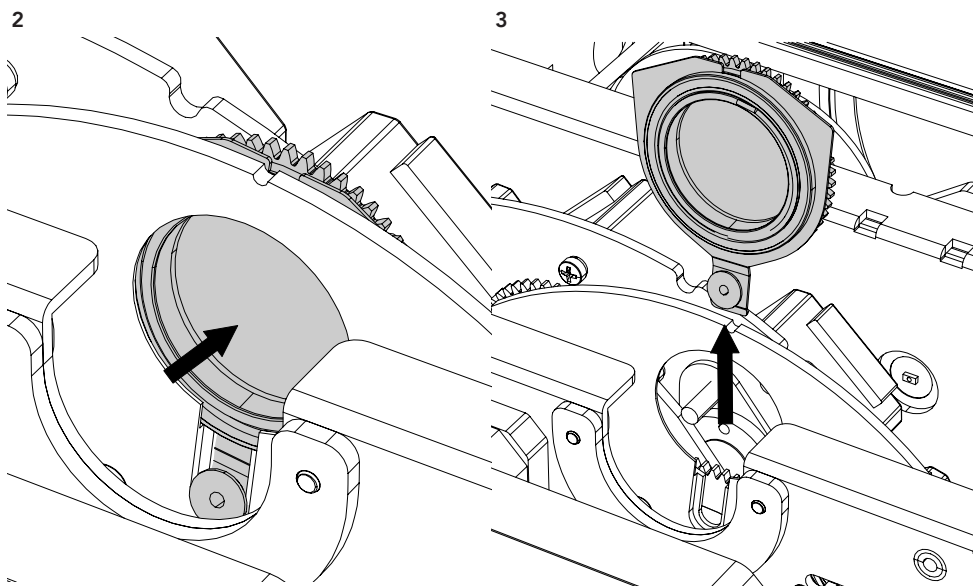
Fig. 15

18 - GOBOS REPLACEMENT

WARNING! Turn OFF power and allow approximately 20 minutes for the fixture to cool down.

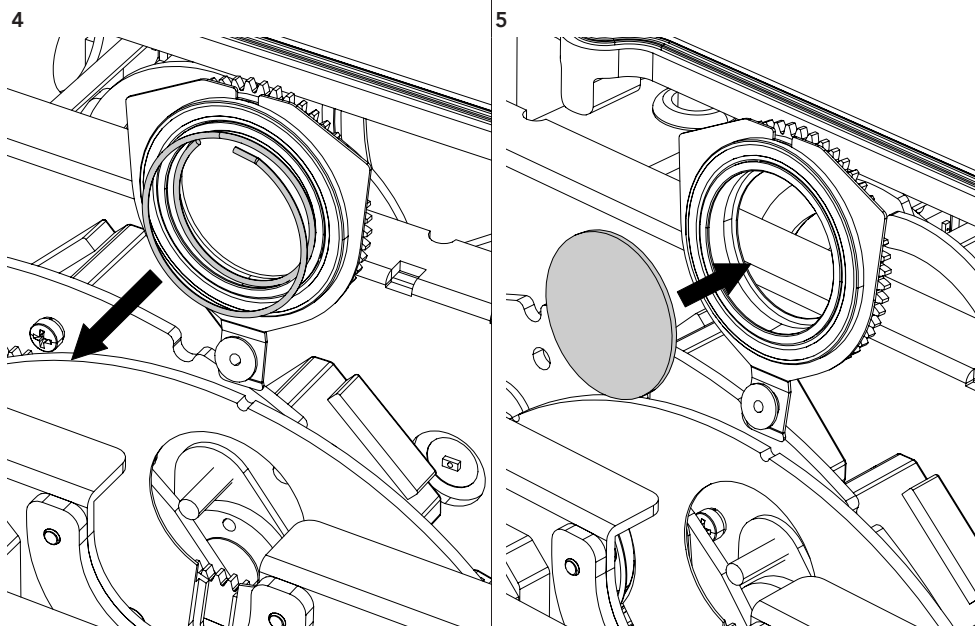


Remove the top cover (see paragraph "Replacement of the animation wheel"). Rotate the animation wheel until the gobo is in the indicated position.

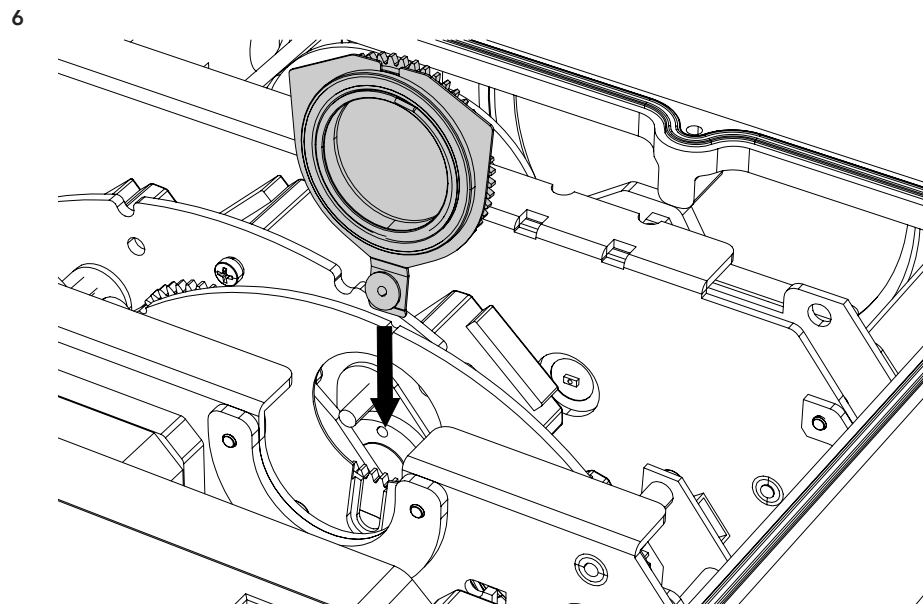


Apply a push to the gobo holder (2) and extract the gobo holder from the gobo wheel (3).

Please turn! →



Insert the new gobo respecting the direction of the painted part (4). Then insert the spring (5)



Replace the gobo support in the wheel (6). Verify that the gobos run without hindrance and reassemble the group following the procedure in reverse.

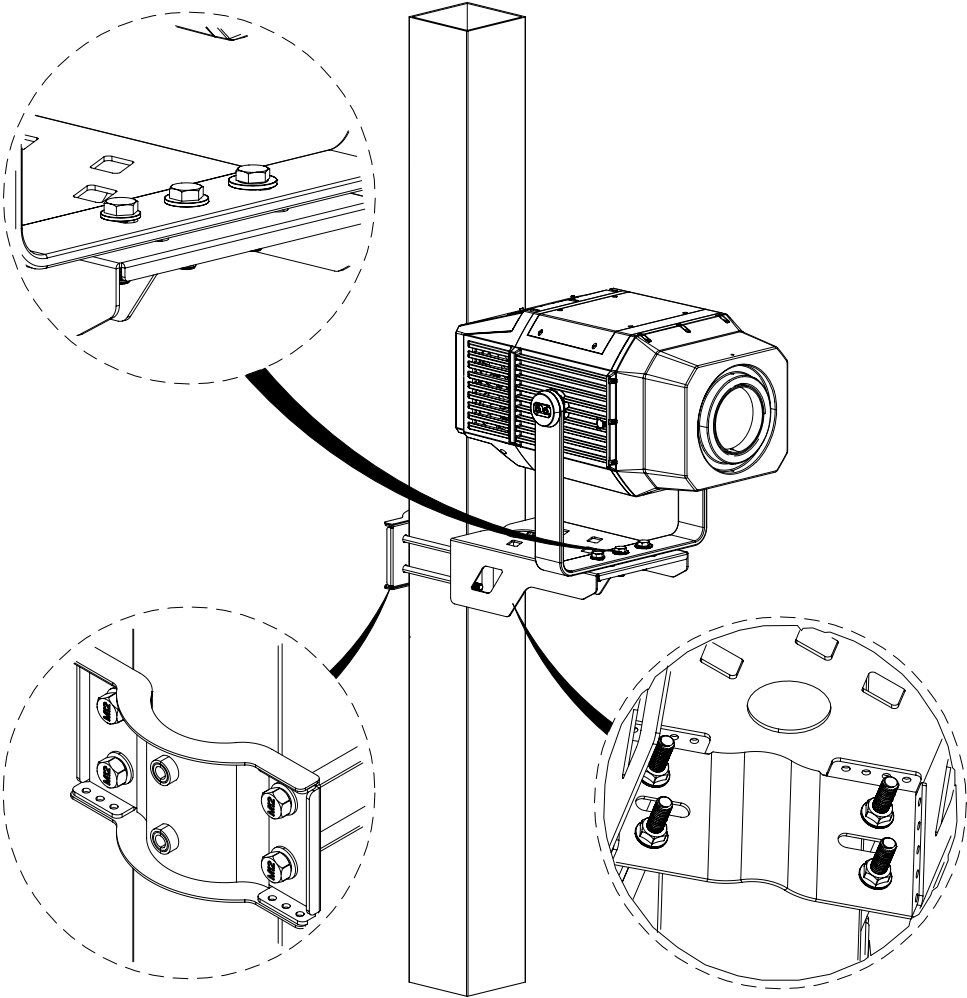
NOTE: gobo holder with magnet need to be fit obligatory inside slot number 5 (see paragraph "Gobos wheel").

Fig. 16

19 - ACCESSORIES INSTALLATION

BRACKET FOR WALL MOUNTING AND SUSPENSION ON POLES (CODE MOSUNIBRACKXL)

1



NOTE

Do not mount the bracket on a support whose surface shows deformations, injuries, crushing, etc.
Both the bracket and the unit must be secured with a safety cable.

Fig. 17

FULL SNOOT / HALF SNOOT
(MXLPLUSFSNOOT; MXLPLUSHSNOOT; - OPTIONAL)

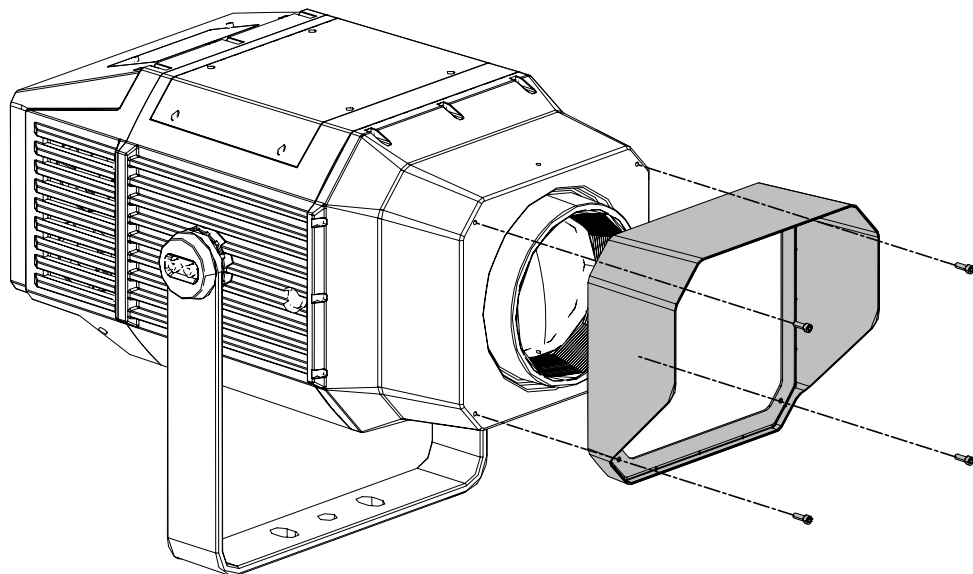
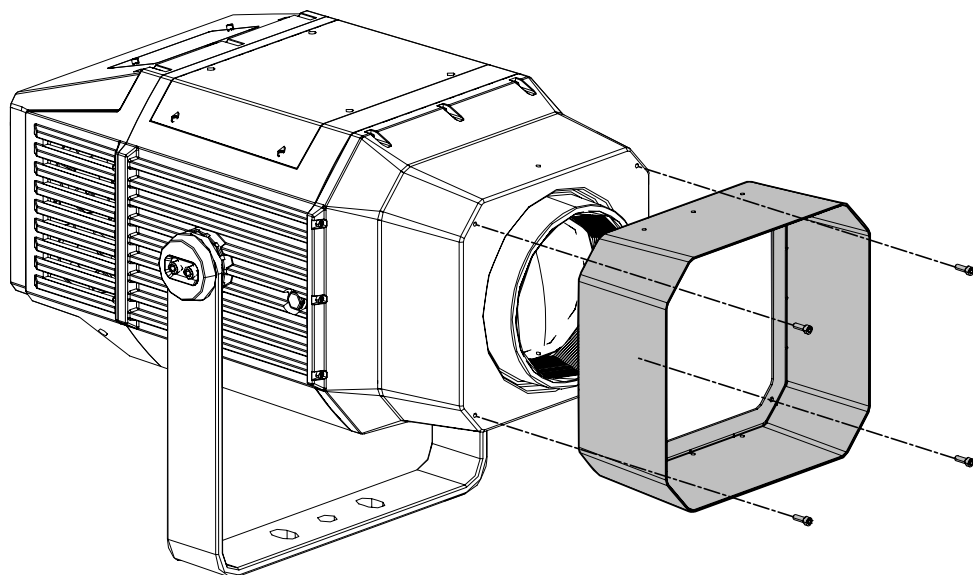


Fig. 18

20 - 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
[LED ERROR]	This error message is displayed when the LED is switched OFF without a command from the product control system
[LED TEMPERATURE ERROR]	This error message indicates that an overheating on the LED has occurred and the lamp has been switched OFF by the product protection system.
[LED TEMPERATURE SENSOR ERROR]	LED sensor damaged (open or in short circuit)
[LED DRIVER TEMPERATURE ERROR]	This error message indicates that an overheating on the LED DRIVER has occurred and the lamp has been switched OFF by the product protection system.
[LED DRIVER TEMPERATURE SENSOR ERROR]	LED DRIVER sensor damaged (open or in short circuit)
[LED AIR IN (LOWER) FAN ERROR]	Air in blower for cooling the lamp failed, the lamp has been switched OFF.
[LED AIR OUT (UPPER) FAN ERROR]	Air out blower for cooling the lamp failed, the lamp has been switched OFF.
[GOBO FAN ERROR]	Blower for cooling the gobo failed
[MOTOR PCB 1 ERROR]	Motor pcb 1 not detected
[MOTOR PCB 2 ERROR]	Motor pcb 2 not detected
[MOTOR PCB 3 ERROR]	Motor pcb 3 not detected
[FOCUS ERROR]	Failure detected during the reset of the FOCUS system, if the focus lens is not located in its default position.
[GOBO WHEEL ERROR]	Failure detected during the reset of the rotating gobo wheel, if this wheel is not located in the default position
[PRISM ERROR]	Failure detected during the reset of the prism, if this effect is not located in the default position.
[PRISM ROTATION ERROR]	Failure detected during the reset of the prism rotation, if this effect is not located in the default position.
[FROST ERROR]	Failure detected during the reset of the effect FROST 1, if this effect is not located in the default position.
[GOBO ROTATION ERROR]	Failure detected during the reset of the rotation of the rotating gobo, if the rotating gobos are not located in the default positions
[ZOOM ERROR]	Failure detected during the reset of the ZOOM system, if the focus lens is not located in its default position.
[ANIMATION WHEEL ERROR]	Failure detected during the reset of the animation wheel, if this wheel is not located in the default position
[COLOR WHEEL ERROR]	Failure detected during the reset of the color wheel, if this wheel is not located in the default position
[FRAME ROTATION ERROR]	Failure detected during the reset of the frame rotation, if this frame is not located in the default position
[MEMORY ERROR]	SD card not detected
[DISPLAY BATTERY ERROR]	Recharge The battery on the display board, keeping the product ON for some hours.

21 - MAINTENANCE

MAINTENANCE AND CLEANING THE PRODUCT

WARNING: Disconnect from the mains before starting any maintenance work

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

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

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

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

VISUAL CHECK OF PRODUCT HOUSING

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

TROUBLESHOOTING

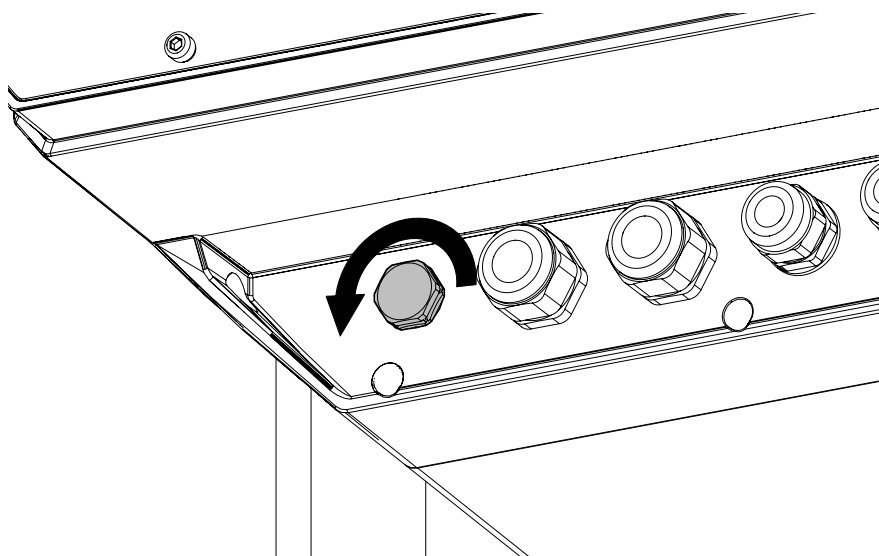
Problems	Possible causes	Checks and remedies
Product doesn't power ON	No power to the product.	Check that power is switched ON and cables are plugged in.
	Fuse blown or internal fault.	- Check if the Fuse is intact and eventually replace it if necessary. - Contact the PROLIGHTS Service or authorized service partner. Do not remove parts and/or covers, or carry out any repairs or service that are not described in this Safety and User Manual unless you have both authorization from PROLIGHTS and the service documentation.
Product reset correctly but does not respond correctly 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.

22 - IP66 RATING TEST

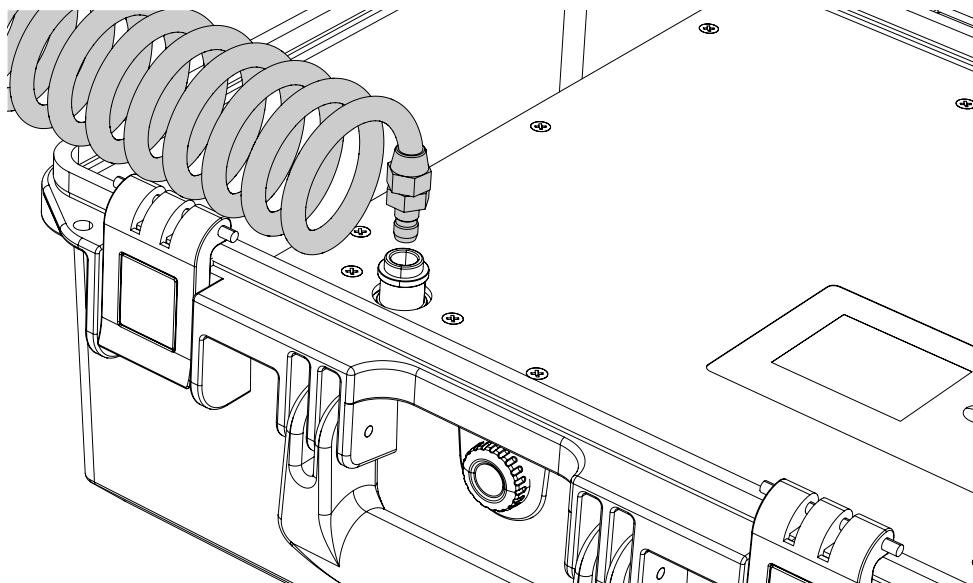
It is recommended to verify IP grade using IPTESTBOX every time the bodies are removed for maintenance.

1



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

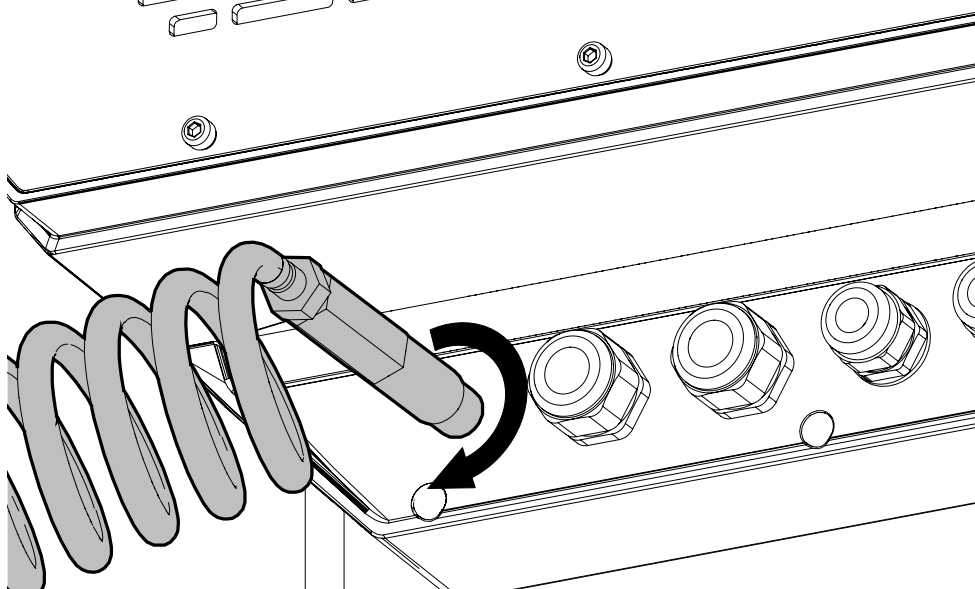
2



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

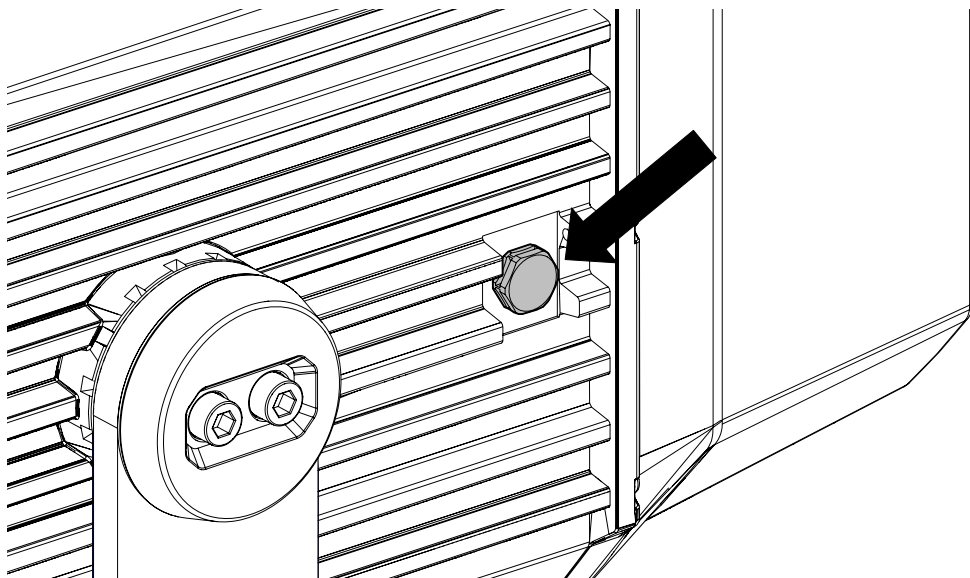
Please turn! →

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 the second gore valve placed on the side of the projector

Fig. 19

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.

[illegible]



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