Astra Beam260IP

IP65 moving beam light with 260 W PRO
long life lamp (6.000 hours)

USER MANUAL

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.

Features, specifications and appearance are subject to change without notice. Music & Lights S.r.l. and all affiliated companies disclaim liability for any injury, damage, direct or indirect loss, consequential or economic loss or any other loss occasioned by the use of, inability to use or reliance on the information contained in this document.

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**

INDEX

SAFETY INFORMATION

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

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

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

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

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

Minimum distance of illuminated objects
- The projector needs to be positioned so that the objects hit by the beam of light are at least 15 meters (49.21 ft) from the lens of the projector.

T$_a$40°C
Max operating ambient temperature (Ta)
- Do not operate the fixture if the ambient temperature (Ta) exceeds 40 °C (104 °F).

T$_a$-15°C
Minimum operating ambient temperature (Ta)
- Do not operate the fixture if the ambient temperature (Ta) is below -15 °C (5 °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
Outdoor (temporary) use
- This product is rated with an IP (Ingress protection) for temporary 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

Light collimation optical system*
- This product contains internal light collimation opticsl system. Avoid to expose the optical system to any intense source of light (including sunlight) from any angle.

T$_c$85°C
Temperature of the external surface
- The surface of the fixture can reach up to 85 °C (185 °F) during operation. Avoid contact with people and materials.

Lamp*
The fitting mounts a high-pressure lamp that needs an external ignitor. This ignitor is fitted onto the apparatus.
1. Carefully read the "operating instructions" provided by the lamp and ignitor manufacturer.
2. Immediately replace the lamp if damaged or deformed by heat.

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

Radio receiver*
- This product contains a radio receiver and/or transmitter:
- Maximum output power: 17 dBm.
- Frequency band: 2.4 GHz.

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.

Do not stare at the operating light source
- Do not look directly at the 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 5.151 m (16.90 ft) is not expected.

	Minimun distance	Risk Group 2	Risk Group 1
	0.2 m 0.7 ft	5.151 m 16.90 ft	
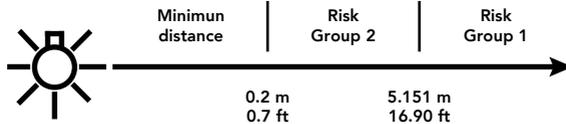
Disposal
- This product is supplied in compliance with European Directive 2012/19/EU – Waste Electrical and Electronic Equipment
- (WEEE). To preserve the environment please dispose/ recycle this product at the end of its life according to the local regulation.

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

The products to which this manual refers comply with:
- 2014/35/EU - Safety of electrical equipment supplied at low voltage (LVD);
- 2014/30/EU - Electromagnetic Compatibility (EMC);
- 2011/65/EU - Restriction of the use of certain hazardous substances (RoHS);
- 2014/53/EU - Radio Equipment Directive (RED).

1 - PACKAGING

PACKAGE CONTENT
- 1x ASTRABEAM260IP;
- 1x 1,5 meters power cable (SCHUKO plug - SEETRONIC IP65 power connector);
- 2x OSIP;
- 1x Antenna;
- User Manual.

OPTIONAL ACCESSORIES
- WSBBR512G6: blackBox R-512 G6 receiver 512Ch, 2.45GHz,DMX&RDM,Bluetooth,G3,G4,G4S,G5,CRMX;
- WSBBR512G5: blackBox R-512 G5 receiver 512Ch, 2.45GHz & 5.8GHz, DMX/RDM optional;
- WSBBF1G6: blackBox F-1 G6 transrec, 512ch, 2.45GHz, DMX&RDM,Bluetooth,G3,G4,G4S, G5, CRMX;
- WSBBF1G5: blackBox F-1 G5 transmitter, 2,45GHz & 5.2/5,8 GHz, DMX/RDM, 512Ch;
- INF53415L03: dmx cable HC5340. SETMC5MXXB XLR 5p->SETMC5FXXB XLR (f) 5p L.3m;
- 938225L03: 3x2.5mm TH07 Cable, 16A SETSAC3MX, 16A SETSAC3FX, L. 3m;
- 9313FXWL03: ass. 3x2.5mm TH07 cable, 16A 3p 230V CEE plug, SETSAC3FX socket, L.3 m;
- 9333FXWL03: ass. 3x2.5mm TH07 cable, SHUKO plug, SETSAC3FX socket, L.3m;
- RSR1235A/B: steel security cable for hanging bodies, inox steel shackle, L=120 cm, silver/black;
- C6002: Slim aluminium clamp, 200 kg loading, 48-51 mm tubes, M10 bolt;
- FCLASTRAB260IP: flight case for 2 pcs of ASTRABEAM260IP;
- OSIP: IP65 quick-lock omega bracket compatible with IP65 moving heads;
- IPTESTBOX: portable vacuum and pressure tester for ProLights IP fixtures;
- UPBOX2: Firmware uploader kit, USB IN, 3-pin XLR DMX OUT.

2 - TECHNICAL DRAWING
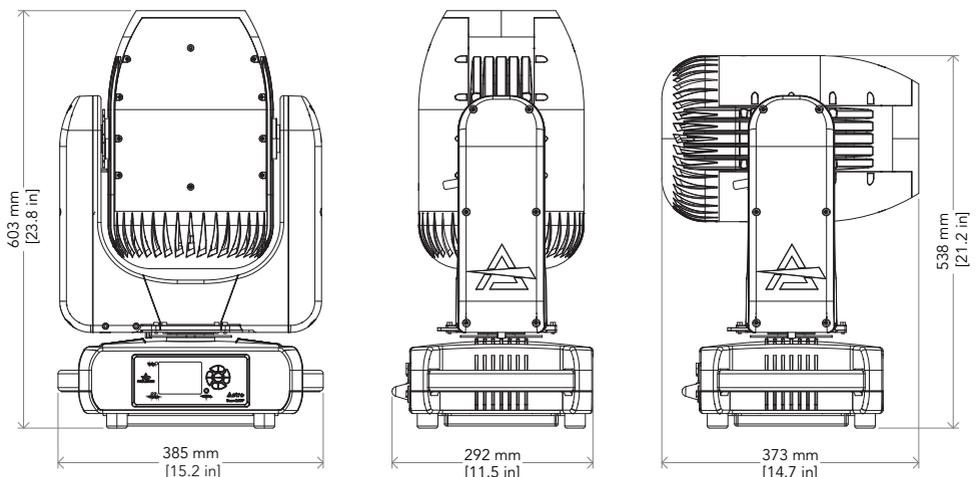
Weight: 28.6 kg - 63.05 lbs

Fig. 01

3 - PAN AND TILT LOCK

PAN Mechanism lock and release
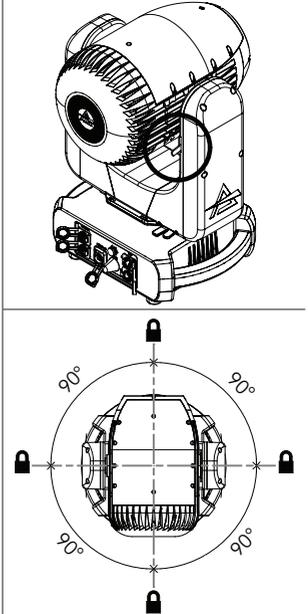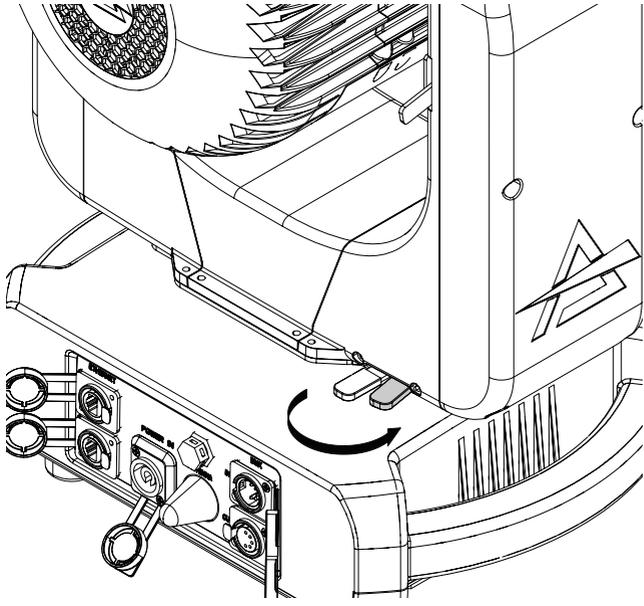
TILT Mechanism lock and release
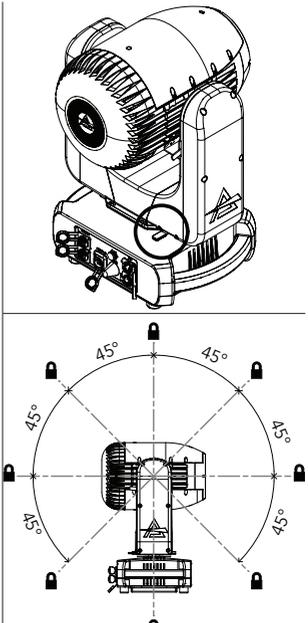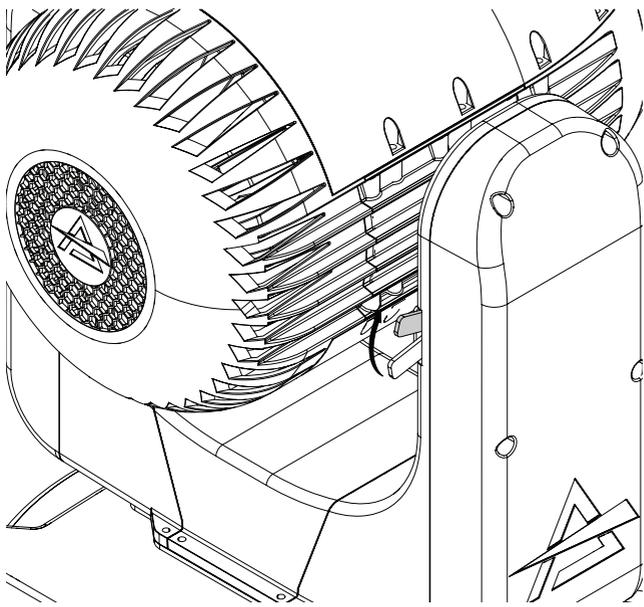
Fig. 02

4 - 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.
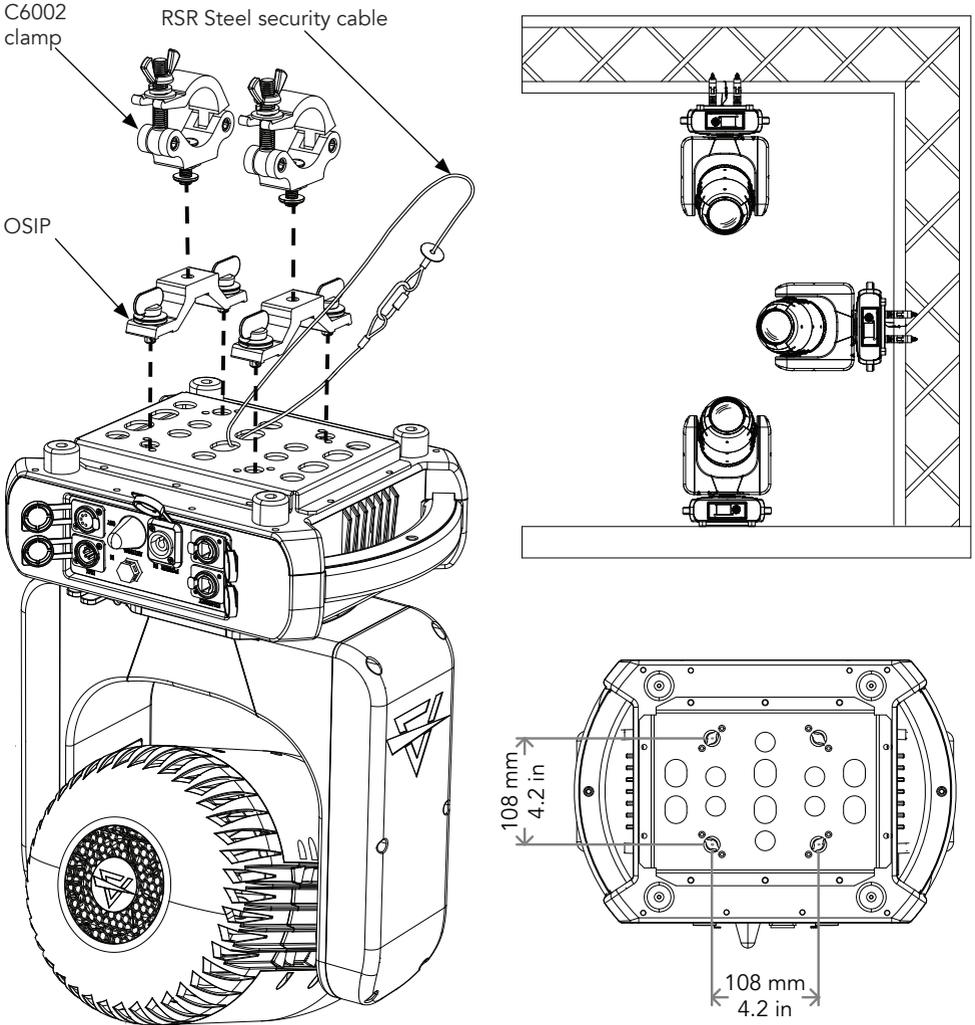
Fig. 03

5 - 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 345W.

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

6 - 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.

7 - PRODUCT OVERVIEW

1. SAFETY EYE to attach safety cable;
2. USER INTERFACE with display and buttons for access to the control panel functions;
3. GORE VALVE;
4. ETHERCON CONNECTORS IN / OUT signal;
5. POWER IN: for connection to the Mains 100-240V~/50-60Hz;
6. ANTENNA of Wireless DMX Receiver internal module;
7. DMX OUT (5-p XLR): 1 = GND, 2 = sign-, 3 = sign+, 4 N/C, 5 N/C;
8. DMX IN (5-p XLR): 1 = GND, 2 = sign-, 3 = sign+, 4 N/C, 5 N/C;
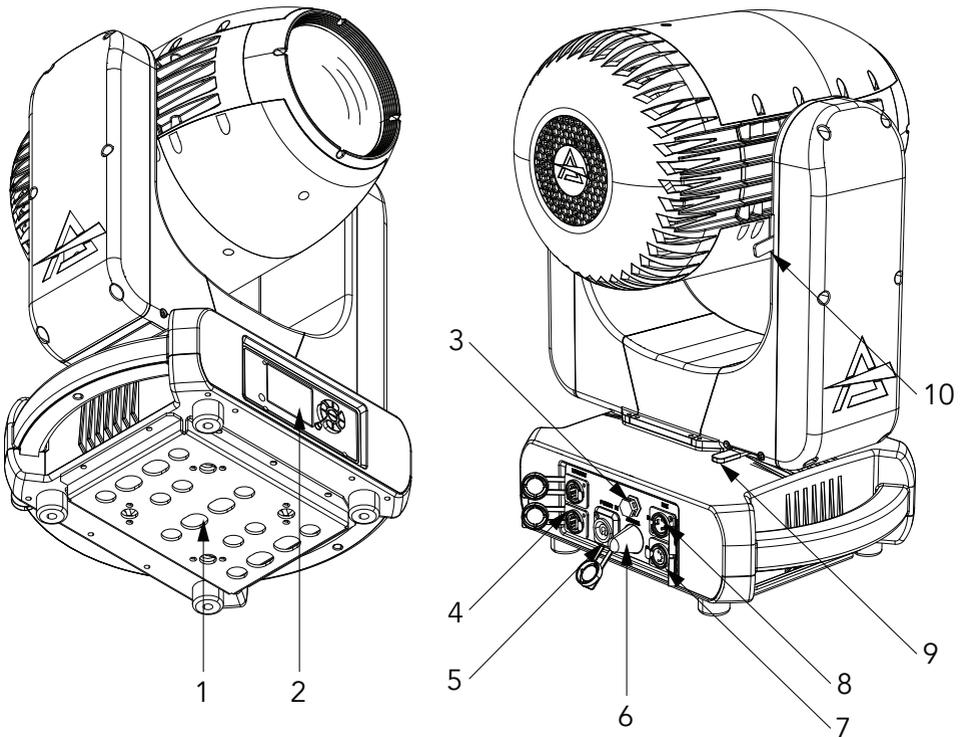9. PAN Mechanism lock and release;
10. TILT Mechanism lock and release.

Fig. 04

8 - DMX CONNECTION

CONNECTION OF THE CONTROL SIGNAL: DMX LINE
The product has XLR sockets for DMX input and output.
The default pin-out on both socket is as the following diagram:

DMX - INPUT
XLR plug

DMX - OUTPUT
XLR socket

Pin1 : GND - Shield
Pin2 : - Signal
Pin3 : + Signal
Pin4 : N/C
Pin5 : N/C
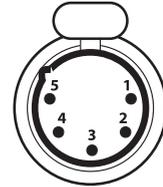
Fig. 05

INSTRUCTIONS FOR A RELIABLE DMX CONNECTION
Use shielded twisted-pair cable designed for RS-485 devices: standard microphone cable cannot transmit control data reliably over long runs. 24 AWG cable is suitable for runs up to 300 meters (1000 ft). Heavier gauge cable and/or an amplifier is recommended for longer runs.
To split the data link into branches, use splitter-amplifiers in the connection line.
Do not overload the link. Up to 32 devices may be connected on a serial link.

CONNECTION DAISY CHAIN
Connect the DMX data output from the DMX source to the product DMX input (male connector XLR) socket.
Run the data link from the product XLR output (female connector XLR) socket to the DMX input of the next fixture.
Terminate the data link by connecting a 120 Ohm signal termination. If a splitter is used, terminate each branch of the link.
Install a DMX termination plug on the last fixture on the link.

CONNECTION OF THE DMX LINE
DMX connection employs standard XLR connectors. Use shielded pair-twisted cables with 120Ω impedance and low capacity.
The following diagram shows the connection mode:

DMX Address: 33   DMX Address: 50   DMX Address: 67   DMX Address: 84

DMX IN | DMX OUT   DMX IN | DMX OUT   DMX IN | DMX OUT   DMX IN | DMX OUT

DMX512 Controller

Fig. 06 - Example 17 DMX channels configuration

PROLIGHTS - Astra Beam260IP

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.

120 Ω

Example:
5 pin XLR connector

Fig. 07

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 contr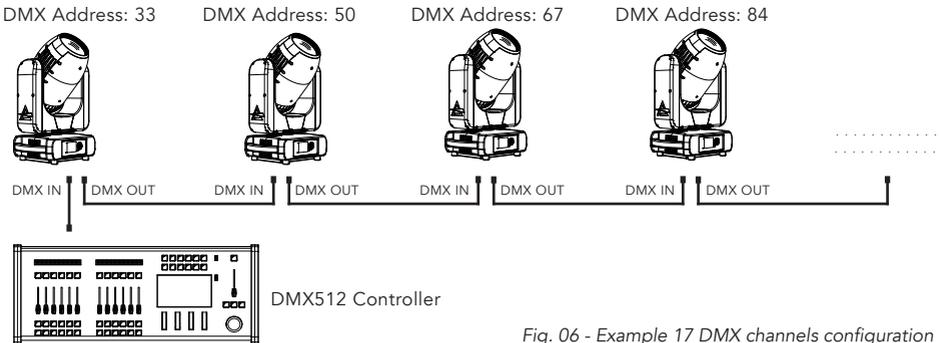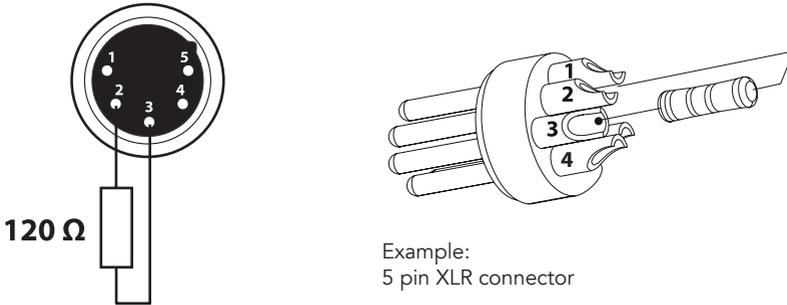oller. If you wish to control the product individually, it is necessary to assign a different starting address channel to each fixture.

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.

ETHERNET CONNECTION

The products is provided with two 8-pin RJ-45 sockets for Ethernet input/output for a simple daisy chain connection to the network.

The product can be controlled with ArtNet (or others available) communication protocol.

Use a network cable category 5 (with four "twisted" wire pairs) and standard RJ-45 plugs.

ETHERNET OPERATION

Please refer to the section MENU STRUCTURE contained in this document for detailed informations about the parameters of setting on the fixture (Protocol, Net, Subnet, Universe, Start Channel and IP Address, Ethernet to DMX No/Yes).

• About the IP addresses is recommended to set 002.xxx.xxx.xxx or 010.xxx.xxx.xxx.
• The submask net is fixed at 255.0.0.0.

ETHERNET TO DMX OPERATIONS

Please refer to the section MENU STRUCTURE contained in this document for detailed informations
This function allow a product receiving an ethernet signal protocol to re-transmit the incoming signal onto a wired DMX line through its onboard XLR-out connector.

- An Ethernet protocol (Artnet, sACN or others available) has to be enabled from Ethernet menu at first fixture. **Please make sure that wireless receiver is switched to OFF if you use Ethernet comunication.**
- Enable the option Ethernet To DMX from the Ethernet menu at the first product (connected to the Ethernet) in the signal chain, next products have standard DMX setting.
- Connect the Ethernet input of the first product in the data chain with the network. Connect the DMX output of this product with the input of the next product until all products are connected to the DMX chain.
- Caution: At the last product, the DMX chain has to be terminated with a terminator. Solder a 120 Ω resistor between Signal (–) and Signal (+) into a XLR-plug and connect it in the DMX-output of the last product.

OPERATION AS A WIRELESS TRANSMITTER

ASTRABEAM260IP can be used as wireless transmitter to transmit DMX signal to different wireless receivers. To use ASTRABEAM260IP 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 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 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 WDMX mode is set to Transmitter).
- All connected receivers will be unlinked.

IN TO WDMX

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.
If the ASTRABEAM260IP protocol selected is ArtNet / sACN, the WDMX module will retransmit the DMX values contained in the ArtNet / sACN signal received from the ASTRABEAM260IP.

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

OPERATION AS A WIRELESS RECEIVER

ASTRABEAM260IP can be used as wireless receiver connected to a wireless transmitter.
To use ASTRABEAM260IP 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 WDMX ON/OFF function and enable it to ON.
4. Select WDMX mode and set it on Receiver (please note that WDMX mode will be available only if WDMX 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 WDMX mode is set to Receiver).
6. On the transmitter, enable TX LINK to ON to link transmitter to the receivers.
7. If the connection is successful and DMX input is available the display the display on the receiver unit will 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.

WDMX TO DMX (RX)

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

9 - CONTROL PANEL

The product has a display and buttons for access to the control panel functions.
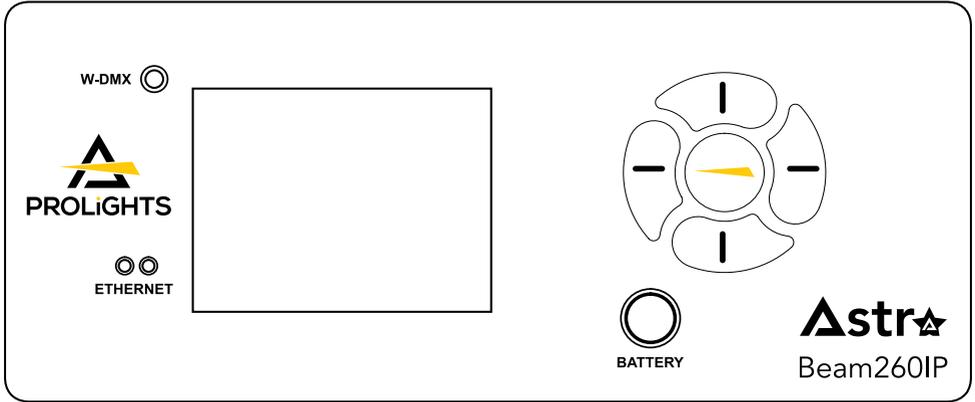
Fig. 08

DISPLAY AND BUTTONS LAYOUT
The product has a display and buttons for access to the control panel functions:

1		• Browse upwards through the menu list and increases the numeric value displayed.
2		• Return to the top level.
3		• Browse downwards through the menu list and decreases the numeric value displayed.
4		• Commute from units, tens, hundred in the menu.
5		• Used to access the menu tree or to return a previous menu window.
BATTERY		• To switch on the display throught the battery.
W-DMX		• LED indicator for Wireless dmx (color red and green).
ETHERNET		• LED indicator for Ethernet network.(color orange)

10 - MENU STRUCTURE

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

	MENU					
1	CONNECT	**ADDRESS**	DMX	**001**-512		
			W-DMX	**001**-512		
			sACN	**001**-512		
			ARTNET	**001**-512		
		DMX MODE	**STANDARD**			
		WIRELESS	WDMX ON/OFF	ON/**OFF**		
			WDMX MODE	TRANSMITTER/ **RECEIVER**		
			TX LINK	ON/**OFF**		
			TX UNLINK	ON/**OFF**		
			RX RESET	ON/**OFF**		
			IN TO WDMX	**ON**/OFF		
			WDMX TO DMX (RX)	**ON**/OFF		
		ETHERNET SETTING	ARTNET SETTINGS	IP ADDRESS		
				NET		
				SUBNET		
				UNIVERSE		
			sACN SETTINGS	IP ADDRESS		
				UNIVERSE		
				MERGE MODE	**OFF**/HTP/LTP	
			ETHERNET TO DMX	**ON**		
				OFF		
2	SETUP	**SCREEN**	BACKLIGHT	ON		Allows you to select the timing after that display will switch automatically off when unactive.
				10 s		
				20 s		
				30 s		
			FLIP DISPLAY	ON		Allows you to rotate the display by 180°.
				OFF		
				AUTO		
			KEY LOCK	ON		Allows you lock the buttons on the control panel by a password. Press following combinations (password) in order to access to the user menu : UP, DOWN, UP, DOWN.
				OFF		
		MOVEMENT	PAN REVERSE	ON		Allows you to enable/disable Pan movement.
				OFF		

			TILT REVERSE	ON			Allows you to enable/disable Tilt movement.
				OFF			
			PAN/TILT FEEDBACK	**ON**			To activate / deactivate the reading of the feedbacks given by the encoders.
				OFF			
			PAN/TILT MODE	SLOW			To choose the horizontal/vertical movement speed.
				MEDIUM			
				FAST			
			HOME POSITION	**STANDARD**			To choose the home position.
				CUSTOM			
			CUSTOM P DEGREE	**0°**			To choose pan values in case of Custom position.
				45°			
				90°			
				135°			
				180°			
				225°			
				270°			
				315°			
			CUSTOM T DEGREE	**0%**			To choose tilt values in case of Custom position.
				12.5%			
				25%			
				50%			
				75%			
				87.5%			
				100%			
		FIXTURE SETTINGS	LAMP	TURN ON/**OFF**			To turn the lamp on or off.
				AUTOMATIC ON/**OFF**			To set Auto-on of the lamp after initial reset.
			DMX FAULT	**HOLD**			To choose the behaviour of fixture in case of dmx signal lost.
				BLACKOUT			
			STATUS LED	**ON**			To turn the status LEDs on the front panel on or off.
				OFF			
			TRANSFER CONFIGURATION	WITHOUT DMX ADDRESS			To transfer the same menu settings of one fixtures to all the other in the daisy chain, including or not the dmx address.
				WITH DMX ADDRESS			
3	ADVANCED	RESET	ALL				To reset these functions.
			PAN				
			TILT				
			PAN & TILT				
			...				

		CALIBRATION	PASSWORD			*For the calibration of these functions.*
			PAN			*050 password for user reset.*
			...			
			FOCUS			
			GOBO 1	FOCUS		
			…			
			GOBO 8	FOCUS		
			...			
		MANUAL CONTROL	PAN			*For manual control of the unit.*
			...			
		RELOAD DEFAULT	BASIC RELOAD	ON		*050 password for user reset.*
				OFF		
			ALL RELOAD	ON		
				OFF		
4	INFORMATION	FIXTURE TIME	FIXTURE HOURS	TOTAL	(ONLY READ)	*To check the total working hours of the unit.*
				PARTIAL	(READ AND RESET)	
			CURRENT HOURS	TOTAL	(ONLY READ)	*To check the current working hours of the unit.*
				PARTIAL	(READ AND RESET)	
			LAMP HOURS	TOTAL	(ONLY READ)	*To see the total operating hours of the lamp.*
				PARTIAL	(READ AND RESET)	
			POWER ON CYCLE	TOTAL	(ONLY READ)	*To see the ignition cycles of the machine.*
				PARTIAL	(READ AND RESET)	
			LAMP STRIKE	TOTAL	(ONLY READ)	*To see the lighting cycles of the lamp,*
				PARTIAL	(READ AND RESET)	
			MAINTENANCE TIME	ELAPSED TIME		*To choose and reset unit maintenance warning hours.*
				ALERT PERIOD	10 - 300	
		LAMP PARAMETERS	VOLTAGE			*To see the lamp parameters.*
			CURRENT			
			POWER			
		TEMPERATURE	NEAR SOURCE TEMP, DRIVER PCB TEMP, LED PCB TEMP,…			*To see the unit temperature.*
		FANS SPEED	NEAR SOURCE FAN, BASE FAN,…			*To see the speed of the fans.*
		WIRELESS QUALITY	POWER ON CYCLE			*To check the wireless quality.*
		CHANNEL VALUE	PAN...			*To see the dmx value of those channels.*

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		ERROR MESSAGE	PAN, TILT...				*To see any error messages.*
		FIXTURE MODEL	XXXXXXXXXX				*View informations about fixture model.*
		RDM UID	(READ AND RESET)				*View ID for the RDM control.*
		SOFTWARE VERSION	1U01 V1.0.00...				*View informations about software version.*

11 - SHORTCUT

KEYS	MODE	DESCRIPTION
UP + DOWN after power on	Flip Display	Directly flip display without enter inside menu.
DOWN then power on	Reset without pan/tilt movements	Fixture will be powered on without reset on pan/tilt movements.
DOWN for 5s on home screen after power on	Calibration process	Disable Lamp Fan Error for Lamp calibration.
ENTER + UP then power on	Bootloader	Force firmware upgrade.

12 - 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	PAN_INVERT	0x0600	x	x
	TILT_INVERT	0x0601	x	x
	PAN_TILT_SWAP	0x0602	x	x
	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

13 - DMX CHARTS

Channel	Standard
1	PAN
2	PAN FINE
3	TILT
4	TILT FINE
5	DIMMER
6	DIMMER FINE
7	SHUTTER
8	COLOR WHEEL
9	FIXED GOBO
10	8F CIRCULAR PRISM
11	8F CIRCULAR PRISM ROT
12	6F LINEAR PRISM
13	6F LINEAR PRISM ROT
14	FROST
15	FOCUS
16	FOCUS FINE
17	CONTROL

Channel	Function	DMX Value	Default
1	**PAN** Lineary from 0% to 100%	000 ÷ 255	128
2	**PAN FINE** Lineary from 0% to 100%	000 ÷ 255	128
3	**TILT** Lineary from 0% to 100%	000 ÷ 255	128
4	**TILT FINE** Lineary from 0% to 100%	000 ÷ 255	128
5	**DIMMER** Lineary from close to open	000 ÷ 255	000
6	**DIMMER FINE** Lineary from close to open	000 ÷ 255	000
7	**SHUTTER** Close Strobe from slow to fast Open Pulse in from slow to fast Open Pulse out from slow to fast Open Randon from slow to fast Open	000 ÷ 001 002 ÷ 062 063 ÷ 064 065 ÷ 125 126 ÷ 127 128 ÷ 188 189 ÷ 190 191 ÷ 251 252 ÷ 255	255
8	**COLOR WHEEL** **Indexed** Open Open + DARK RED DARK RED	000 ÷ 003 004 ÷ 007 008 ÷ 011	000

Channel	Function	DMX Value	Default
8	DARK RED + ORANGE	012 ÷ 015	000
	ORANGE	016 ÷ 019	
	ORANGE + AQUAMARINE	020 ÷ 023	
	AQUAMARINE	024 ÷ 027	
	AQUAMARINE + DEEP GREEN	028 ÷ 031	
	DEEP GREEN	032 ÷ 035	
	DEEP GREEN + LAVANDER	036 ÷ 039	
	LAVANDER	040 ÷ 043	
	LAVANDER + PINK	044 ÷ 047	
	PINK	048 ÷ 051	
	PINK + YELLOW	052 ÷ 055	
	YELLOW	056 ÷ 059	
	YELLOW + MAGENTA	060 ÷ 063	
	MAGENTA	064 ÷ 067	
	MAGENTA + CYAN	068 ÷ 071	
	CYAN	072 ÷ 075	
	CYAN + CTO1	076 ÷ 079	
	CTO1	080 ÷ 083	
	CTO1 + CTO2	084 ÷ 087	
	CTO2	088 ÷ 091	
	CTO2 + CTB	092 ÷ 095	
	CTB	096 ÷ 099	
	CTB + DARK BLUE	100 ÷ 103	
	DARK BLUE	104 ÷ 107	
	DARK BLUE + OPEN	108 ÷ 111	
	Forward Spin		
	From fast to slow	112 ÷ 182	
	Stop		
	Stop	183 ÷ 184	
	Reverse Spin		
	From slow to fast	185 ÷ 255	
9	**FIXED GOBO**		000
	Indexed & Indexed With Backout&Shake		
	Open	000 ÷ 003	
	Gobo 1	004 ÷ 007	
	Gobo 2	008 ÷ 011	
	Gobo 3	012 ÷ 015	
	Gobo 4	016 ÷ 019	
	Gobo 5	020 ÷ 023	
	Gobo 6	024 ÷ 027	
	Gobo 7	028 ÷ 031	
	Gobo 8	032 ÷ 035	
	Gobo 9	036 ÷ 039	
	Gobo 10	040 ÷ 043	
	Gobo 11	044 ÷ 047	
	Gobo 12	048 ÷ 051	
	Gobo 13	052 ÷ 055	
	Gobo 14	056 ÷ 059	
	Forward Spin		
	From fast to slow	060 ÷ 107	
	Stop		
	Stop	108 ÷ 109	
	Reverse Spin		
	From slow to fast	110 ÷ 157	
	Shake		
	Gobo 1 from slow to fast	158 ÷ 164	
	Gobo 2 from slow to fast	165 ÷ 171	
	Gobo 3 from slow to fast	172 ÷ 178	
	Gobo 4 from slow to fast	179 ÷ 185	
	Gobo 5 from slow to fast	186 ÷ 192	
	Gobo 6 from slow to fast	193 ÷ 199	
	Gobo 7 from slow to fast	200 ÷ 206	
	Gobo 8 from slow to fast	207 ÷ 213	
	Gobo 9 from slow to fast	214 ÷ 220	
	Gobo 10 from slow to fast	221 ÷ 227	
	Gobo 11 from slow to fast	228 ÷ 234	
	Gobo 12 from slow to fast	235 ÷ 241	
	Gobo 13 from slow to fast	242 ÷ 248	
	Gobo 14 from slow to fast	249 ÷ 255	

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Channel	Function	DMX Value	Default
10	**8F CIRCULAR PRISM** Open Prism insert	000 ÷ 127 128 ÷ 255	000
11	**8F CIRCULAR PRISM ROT** **Continuous** Lineary from 0° to 360° **Forward Spin** From slow to fast **Stop** Stop **Reverse Spin** From fast to slow	000 ÷ 127 128 ÷ 190 191 ÷ 192 193 ÷ 255	000
12	**6F LINEAR PRISM** Open Prism insert	000 ÷ 127 128 ÷ 255	000
13	**6F LINEAR PRISM ROT** **Continuous** Lineary from 0° to 360° **Forward Spin** From slow to fast **Stop** Stop **Reverse Spin** From fast to slow	000 ÷ 127 128 ÷ 190 191 ÷ 192 193 ÷ 255	000
14	**FROST** **Continuous** Lineary from 0% to 100%	000 ÷ 255	000
15	**FOCUS** Lineary from in to out	000 ÷ 255	000
16	**FOCUS FINE** Lineary from in to out	000 ÷ 255	000

Channel	Function	DMX Value	Default
17	**CONTROL**		000
	No Function/Safe	000 ÷ 001	
	PAN REVERSE ON	002 ÷ 003	
	PAN REVERSE OFF	004 ÷ 005	
	TILT REVERSE ON	006 ÷ 007	
	TILT REVERSE OFF	008 ÷ 009	
	PAN/TILT MODE FAST	010 ÷ 011	
	PAN/TILT MODE MEDIUM	012 ÷ 013	
	PAN/TILT MODE SLOW	014 ÷ 015	
	MOVEMENT IN BLACKOUT ON	016 ÷ 017	
	MOVEMENT IN BLACKOUT OFF	018 ÷ 019	
	COLOR WHEEL BLACKOUT ON (index)	020 ÷ 021	
	COLOR WHEEL BLACKOUT OFF (index)	022 ÷ 023	
	FIXED GOBO WHEEL BLACKOUT ON (index)	024 ÷ 025	
	FIXED GOBO WHEEL BLACKOUT OFF (index)	026 ÷ 027	
	COLOR WHEEL CONTINUOUS MOVEMENT (index)	028 ÷ 029	
	COLOR WHEEL STEP MOVEMENT (index)	030 ÷ 031	
	FIXED GOBO WHEEL CONTINUOUS MOVEMENT (index)	032 ÷ 033	
	FIXED GOBO WHEEL STEP MOVEMENT (index)	034 ÷ 035	
	HOME MODE STANDARD	036 ÷ 037	
	HOME MODE CUSTOM	038 ÷ 039	
	DISPLAY ON	040 ÷ 041	
	DISPLAY 10S	042 ÷ 043	
	DISPLAY 20S	044 ÷ 045	
	DISPLAY 30S	046 ÷ 047	
	FLIP DISPLAY ON	048 ÷ 049	
	FLIP DISPLAY OFF	050 ÷ 051	
	FLIP DISPLAY AUTO	052 ÷ 053	
	KEY LOCK ON	054 ÷ 055	
	KEY LOCK OFF	056 ÷ 057	
	NO SIGNAL HOLD	058 ÷ 059	
	NO SIGNAL BLACKOUT	060 ÷ 061	
	STATUS LED ON	062 ÷ 063	
	STATUS LED OFF	064 ÷ 065	
	RESET ALL	066 ÷ 067	
	RESET PAN	068 ÷ 069	
	RESET TILT	070 ÷ 071	
	RESET PAN/TILT	072 ÷ 073	
	RESET COLOR	074 ÷ 075	
	RESET GOBO	076 ÷ 077	
	RESET SHUTTER	078 ÷ 079	
	RESET OTHER	080 ÷ 081	
	LAMP OFF	082 ÷ 083	
	LAMP ON	084 ÷ 085	
	Reserved	086 ÷ 253	
	FACTORY DEFAULT OF CONTROL FUNCTIONS	254 ÷ 255	

Fig. 09

15 - COLOR WHEEL

Number	Color
13	DARK BLUE
12	CTB=10000K
11	CTO2=3200K
10	CTO1=2600K
9	CYAN
8	MAGENTA
7	YELLOW
6	PINK
5	LAVANDER
4	DEEP GREEN
3	AQUAMARINE
2	ORANGE
1	DARK RED
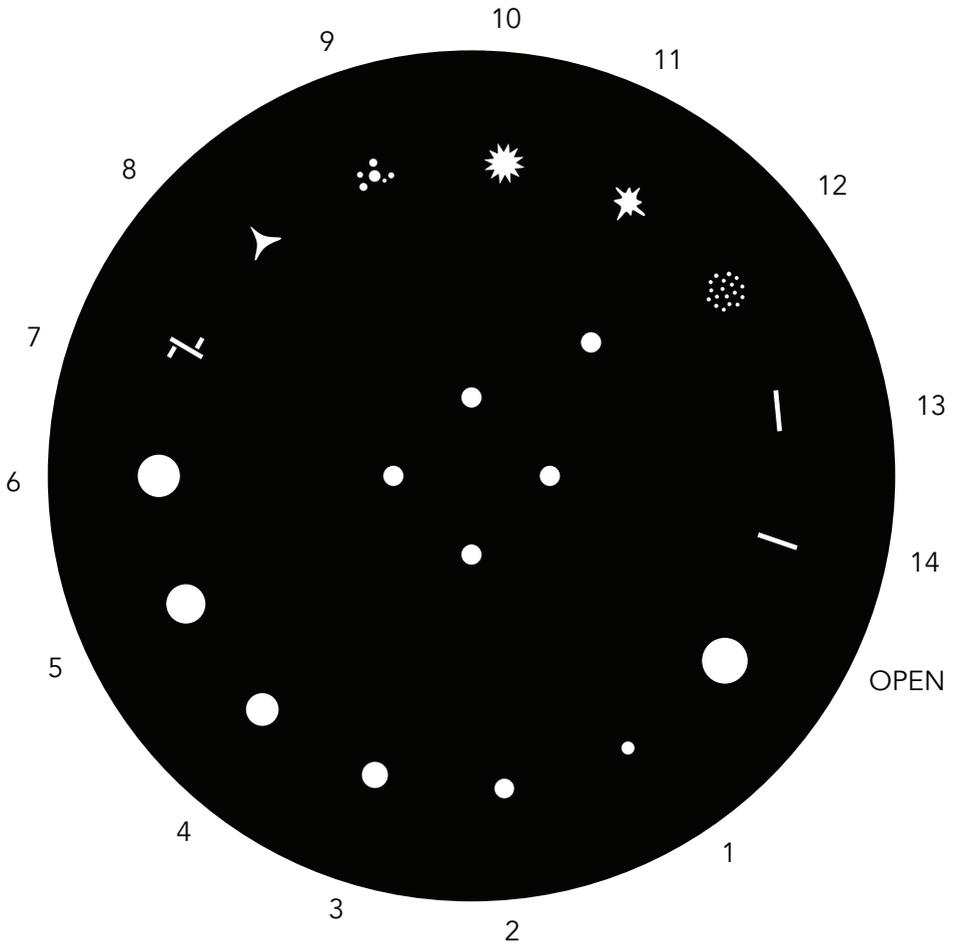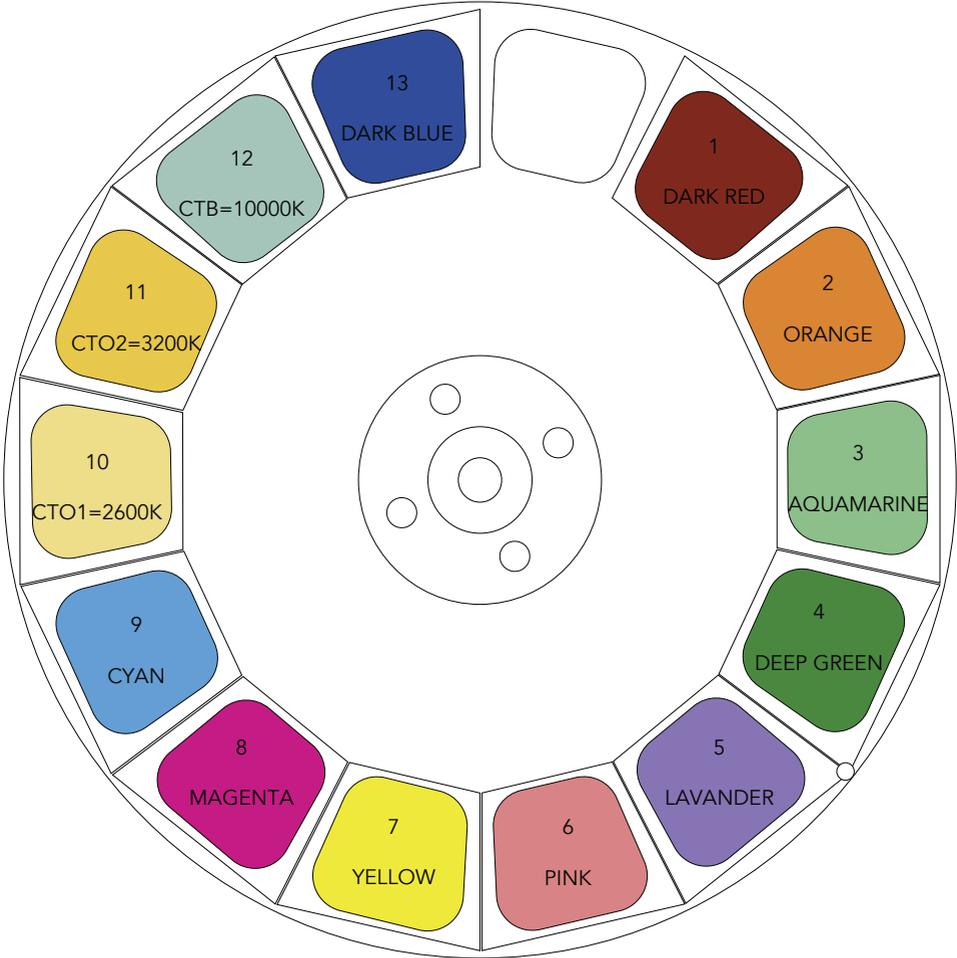
Fig. 10

16 - LAMP REPLACEMENT

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

1

2
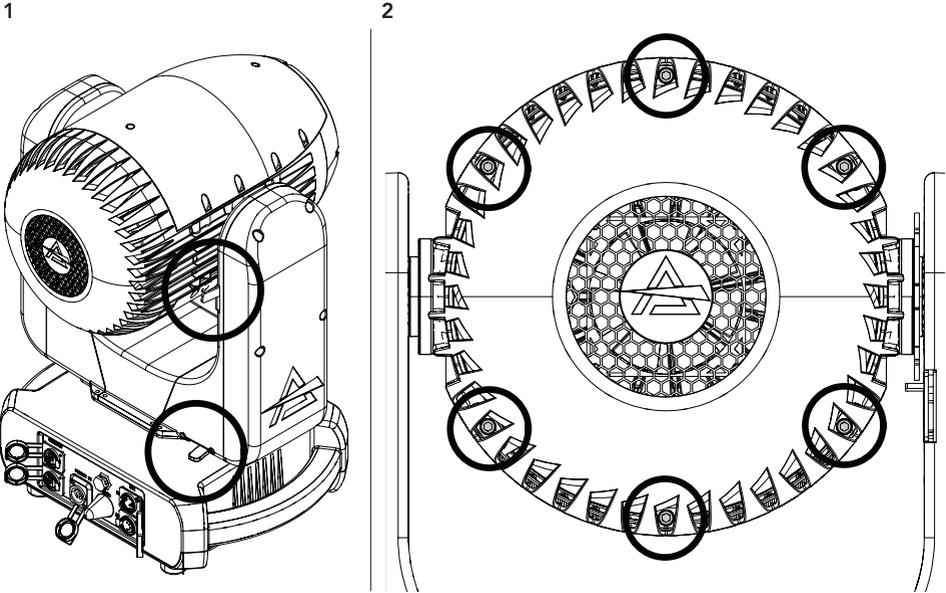
Before removing rear cover, place the head in a right-angle horizontal position and engage both the PAN and TILT locks for added stability while replacing the lamp (1). See the "PAN AND TILT LOCK" paragrap. Then remove the six market screws to remove rear cover (2).

3
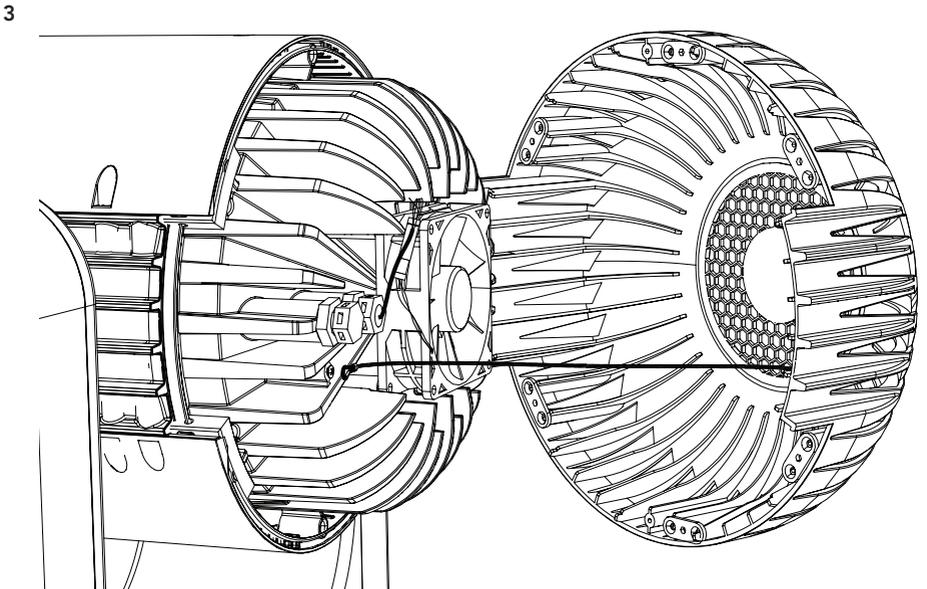
Unclip the rear cover safety cable.

4
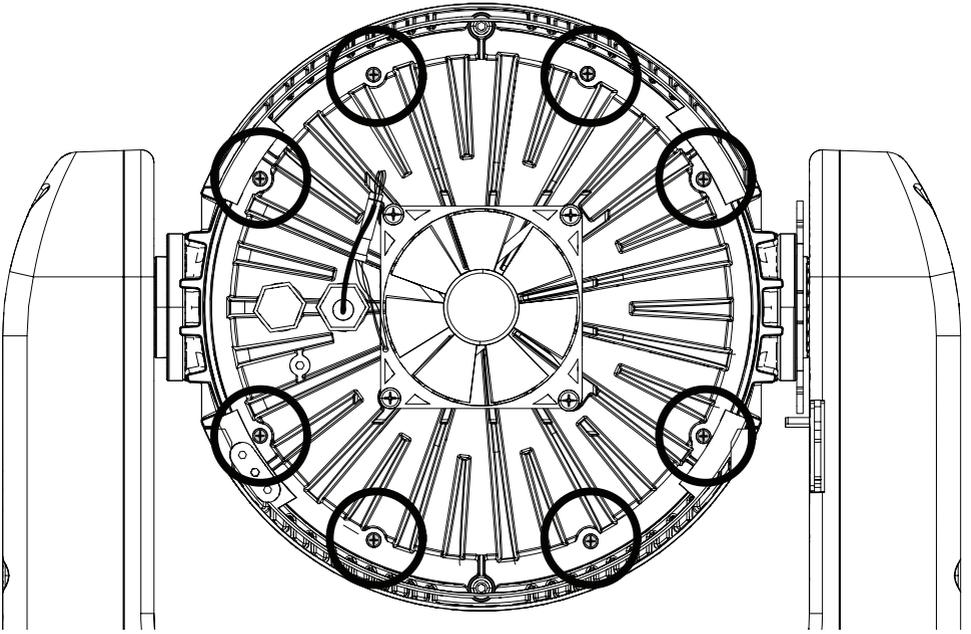
Remove the eight marked screws.

5

Safety cable

Cable connected
to the module
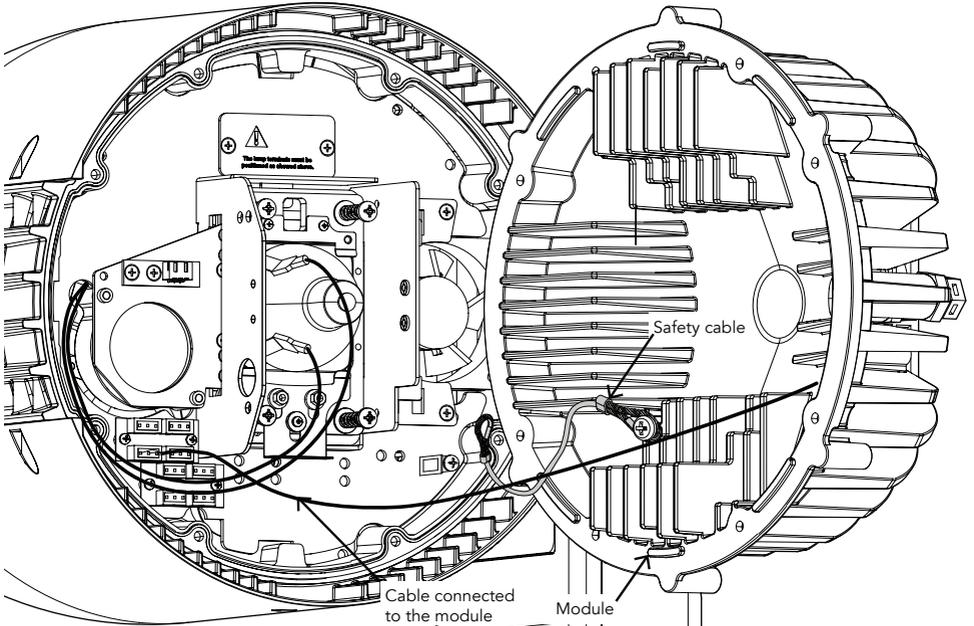
Module

Unclip the heatsink module safety cable. Slow remove the cable connected to the module and re-move the heatsink module.

6
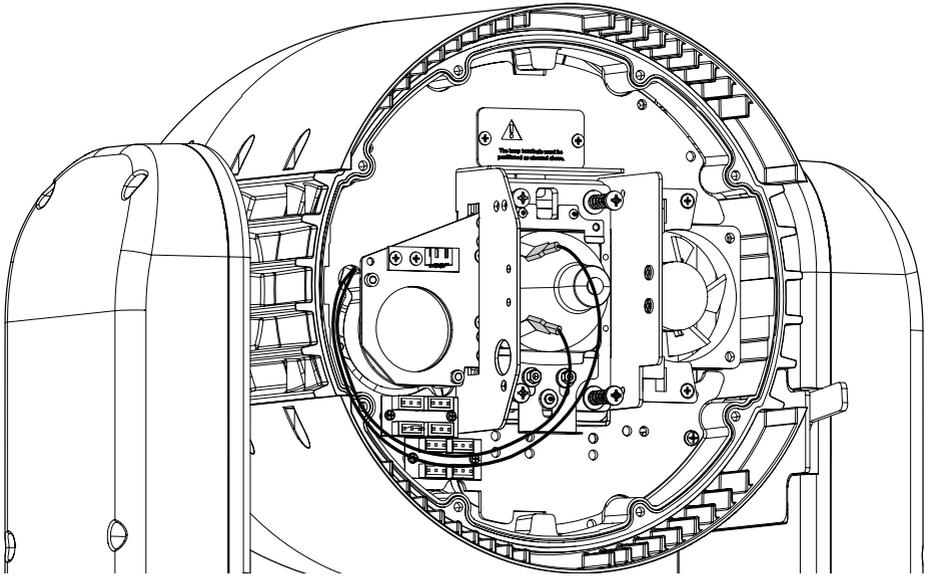
Slow remove the spade receptacle-terminals connected to the lamp.

7
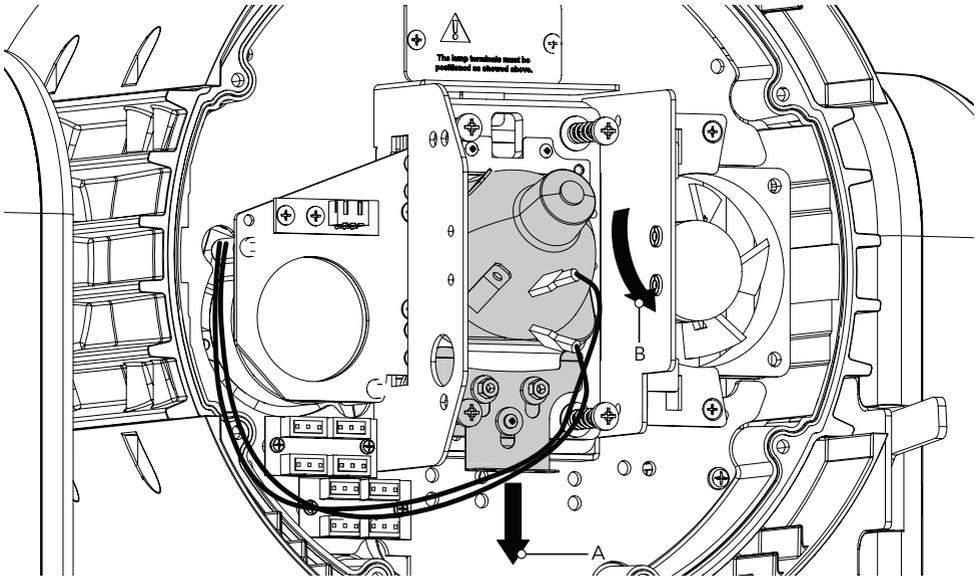
Push the metal locking plate down (A) and remove the lamp (B).
Carefully remove any debris found on gasket and screw holes of the heatsink module using a nona-brasive brush before installing! Carefully inspect gaskets for signs of wear such as cracking or harden-ing, deformities, or alignment issues before replacing the lamp.
Then insert the new lamp using the reverse procedure.

Fig. 11

CENTERING SYSTEM OF THE LAMP

NOTE: Before starting calibration process please hold for 5s "DOWN" button, fixture will enter calibration mode and display "LAMP FAN ERROR DISABLED". Once calibration mode is on you can start calibration process. As soon as you finished calibration please hold for 5s "DOWN" button again to leave calibration mode, "LAMP FAN ERROR DISABLED" will disappear.
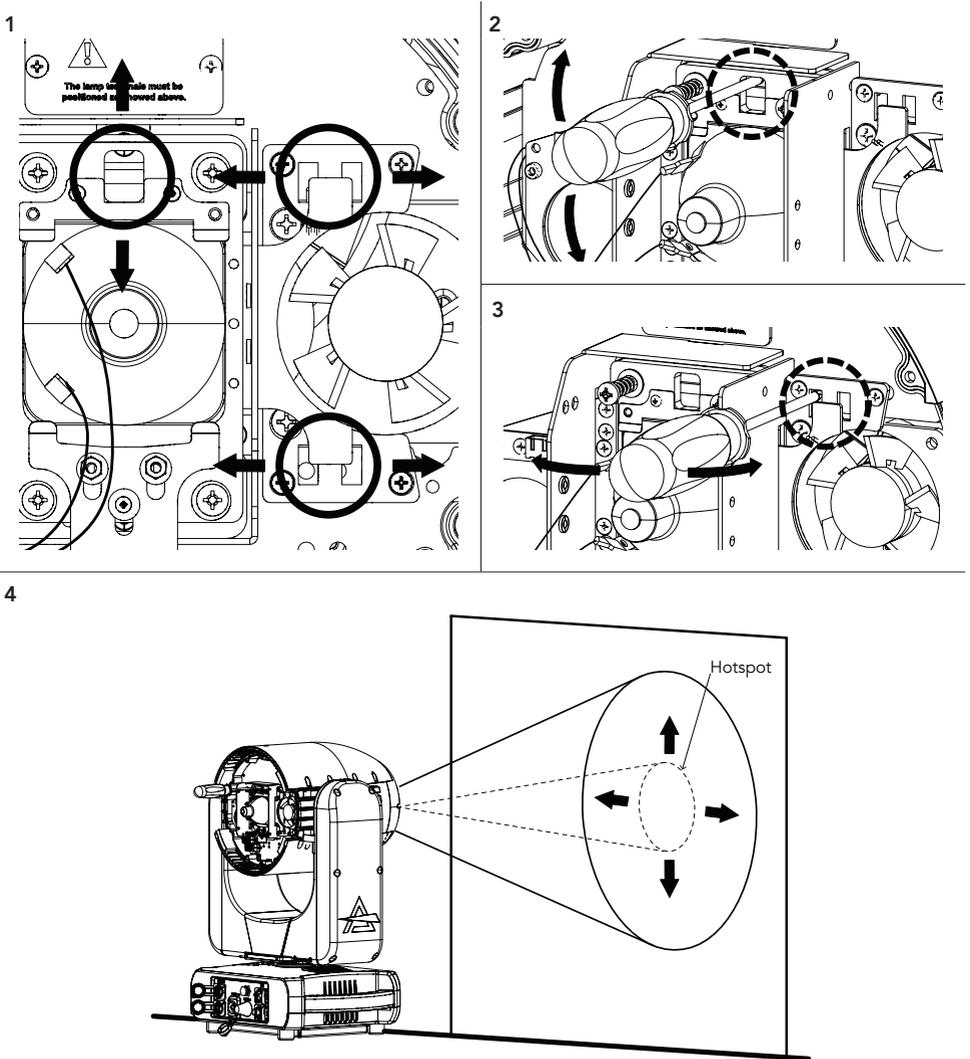
WARNING! Never touch the lens and use the goggles.
Insert a screwdriver into a marked slot (1). Move the screwdriver upwards or downwards (2), right or left (3) to center the hotspot of the lamp on the center of the projection (4).
NOTE: after to have close the housing please check the correct sealing with the IPTESTBOX (see "19 - TEST OF THE RATED IP65" paragraph).

Fig. 12

17 - 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).
The color of the error messages (listed in the "COLOR MESSAGES" column) is different for each board it refers to ("PCB" column).
On page 31 you can see the location of the various pcb boards.

ERROR SHOWED ON SCREEN	POSSIBLE CAUSES	COLOUR MESSAGES	PCB
[LAMP FAN ERROR DISABLED]	This error message is displayed when the fixture is into calibration mode. To activate /disable it please hold DOWN button for 5s.		
[LAMP ERROR]	This error message is displayed when the lamp is switched OFF without a command from the product control system.	Green	1U
[IGNITOR TEMPERATURE ERROR]	This error message indicates that an over-heating on ignitor has occurred and the lamp has been switched OFF by the product protection system.	Green	1U
[IGNITOR FAN ERROR]	Blower for cooling the ignitor failed.	Green	1U
[POWER SUPPLY FAN ERROR]	Blower for cooling the power supply failed.	Green	1U
[DISPLAY BATTERY ERROR]	Battery not present or not detected from the display PCB.	Green	1U
[MAINTENANCE TIME]	Need to be done standard maintenance and also reset of elipsed time.	Green	1U
[DMX ACTIVE]	If transfer configuration is used with dmx signal connected.	Green	1U
[PAN MOTOR ERROR]	This message will appear after the reset of the product if: • the PAN magnetic-indexing circuit detect a failure (sensor failed or magnet is missing); • or the stepping motor is defective; • or its driving IC on the PCB is defective; • or the product is not located in the default position after the reset of the fixture.	Blu	2U
[PAN LOCKED]	Pan is locked.	Blu	2U
[TILT MOTOR ERROR]	This message will appear after the reset of the product if: • the TILT magnetic-indexing circuit detect a failure (sensor failed or magnet is missing); • or the stepping motor is defective; • or its driving IC on the PCB is defective; • or the product is not located in the default position after the reset of the fixture.	Blu	2U
[TILT LOCKED]	Tilt is locked.	Blu	2U

[PAN SENSOR ERROR]	Pan sensor not detected.	Blu	2U
[TILT SENSOR ERROR]	Tilt sensor not detected.	Blu	2U
[PAN ENCODER ERROR]	Pan encoder not detected.	Blu	2U
[TILT ENCODER ERROR]	Tilt encoder not detected.	Blu	2U
[PAN/TILT ERROR]	Pan tilt pcb not detected.	Blu	2U
[MOTOR PCB 1 ERROR]	Motor pcb 3U not detected.	Yellow	3U
[GOBO WHEEL ERROR]	Failure detected during the reset of the rotating gobo wheel, if this wheel is not located in the default position.	Yellow	3U
[COLOR WHEEL ERROR]	Failure detected during the reset of the colour wheel, if this wheel is located in the default position.	Yellow	3U
6F PRISM ERROR]	Failure detected during the reset of the 6F effect prism, if this effect is not located in the default position.	Yellow	3U
[8F PRISM ERROR]	Failure detected during the reset of the 8F effect prism, if this effect is not located in the default position.	Yellow	3U
[6F PRISM ROT. ERROR]	Failure detected during the reset of the 6F effect prism rotation, if this effect is not located in the default position.	Yellow	3U
[8F PRISM ROT. ERROR]	Failure detected during the reset of the 8F effect prism rotation, if this effect is not located in the default position.	Yellow	3U
[COLOR / GOBO FAN ERROR]	Color / Gobo wheel blowers for cooling the head failed.	Yellow	3U
[MOTOR PCB 2 ERROR]	Motor pcb 4U not detected.	Magenta	4U
[FOCUS ERROR]	Failure detected during the reset of the FOCUS system, if the focus lens is not located in its default position.	Magenta	4U
[FRONT LENS FAN ERROR]	Blower for avoid condensation from front lens failed.	Magenta	4U
[LAMP 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.	Cyan	5U
[LAMP TEMPERATURE SENSOR ERROR]	Lamp sensor damaged (open or in short circuit).	Cyan	5U
[HEAT SINK FAN ERROR]	Blower for cooling the heat sink failed, the lamp has been switched OFF.	Cyan	5U
[LAMP AIR IN FAN ERR.]	Air in blower for cooling the lamp failed, the lamp has been switched OFF.	Cyan	5U
[LAMP AIR OUT FAN ERR.]	Air out blower for cooling the lamp failed, the lamp has been switched OFF.	Cyan	5U
[FAN PCB ERROR]	Fan 5U PCB not detected.	Cyan	5U

PROLIGHTS - Astra Beam260IP

IDENTIFICATION OF ELECTRONIC BOARDS

4U PCB

5U PCB

2U PCB

1U PCB

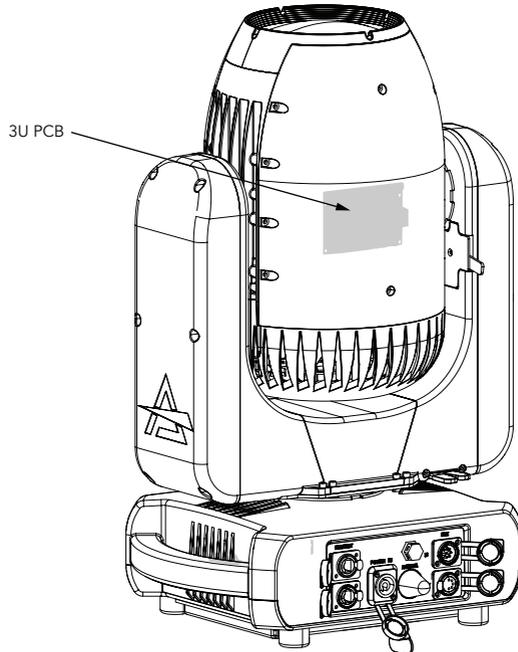3U PCB

Fig. 13

PROLIGHTS - Astra Beam260IP   33
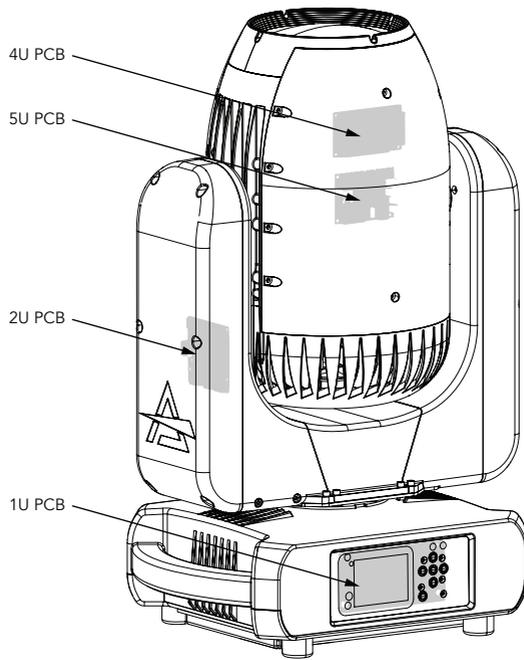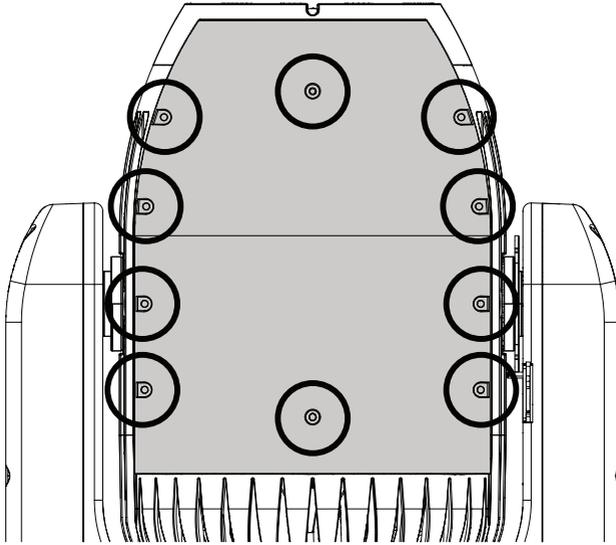
18 - PERIODICAL CLEANING

WARNING! Turn OFF power and allow approximately 20 minutes for the fixture to cool down.
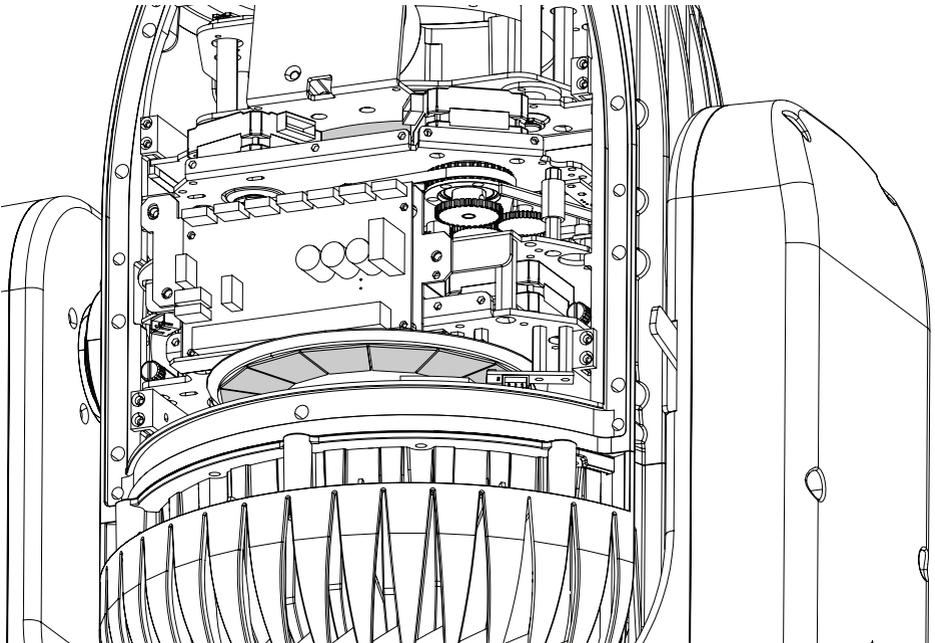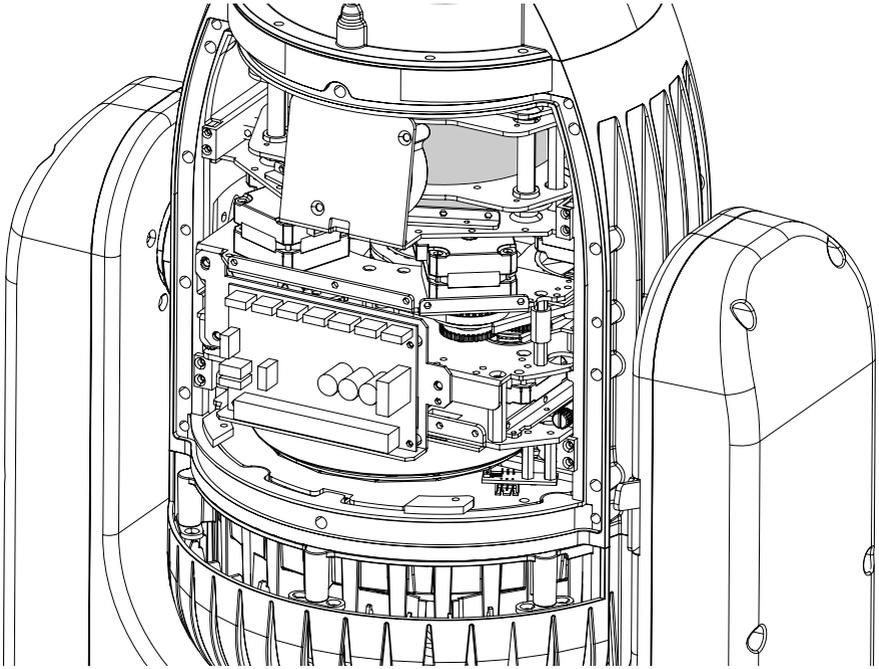
1

Before removing rear cover, place the head in a horizontal position and engage both the PAN and TILT locks for added stability. See the "PAN AND TILT LOCK" paragrap.
Loosen and remove the marked screws and opening the head covers (1) from both sides.

2

Unclip the heatsink module safety cable.

3
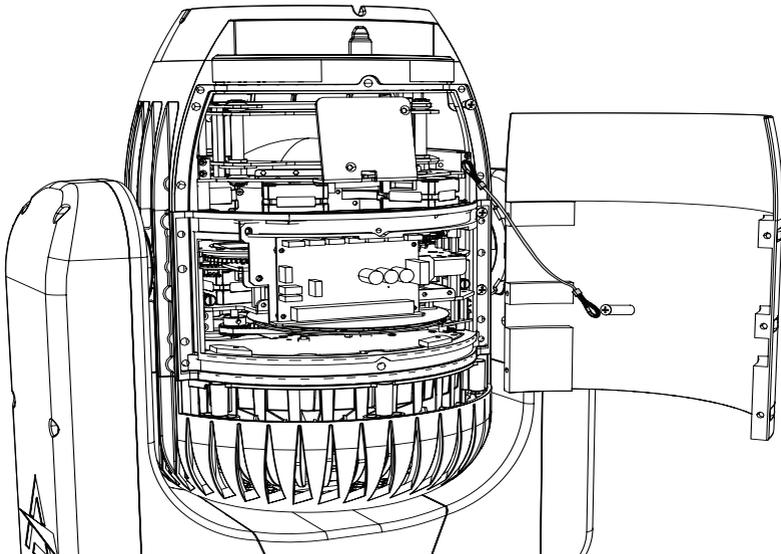
Use a soft cloth dampened with any detergent liquid for cleaning glass to remove the dirt from the reflectors, from the lenses and filters.

4
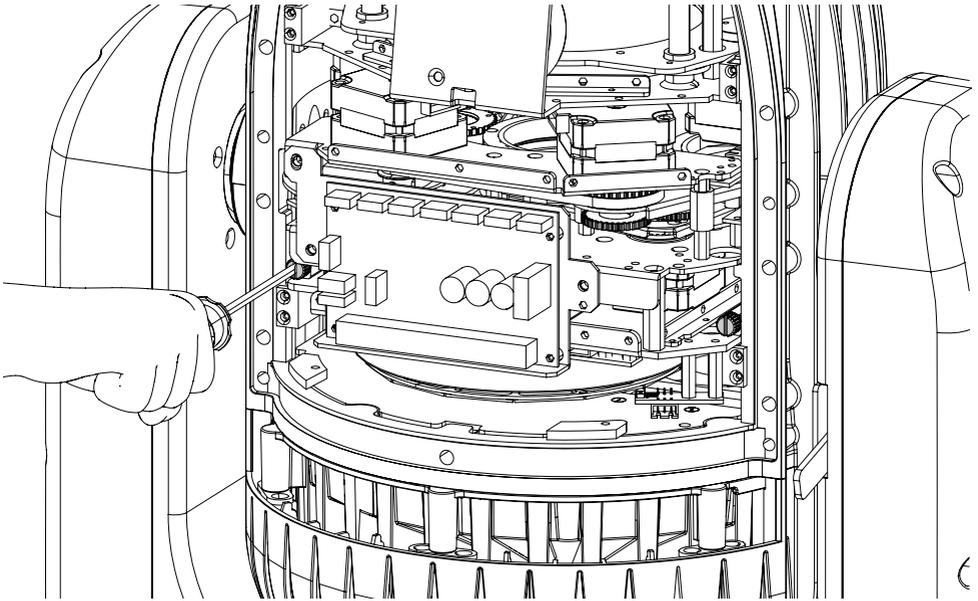
Loosen and remove the market screws from both sides (total four screws).

5
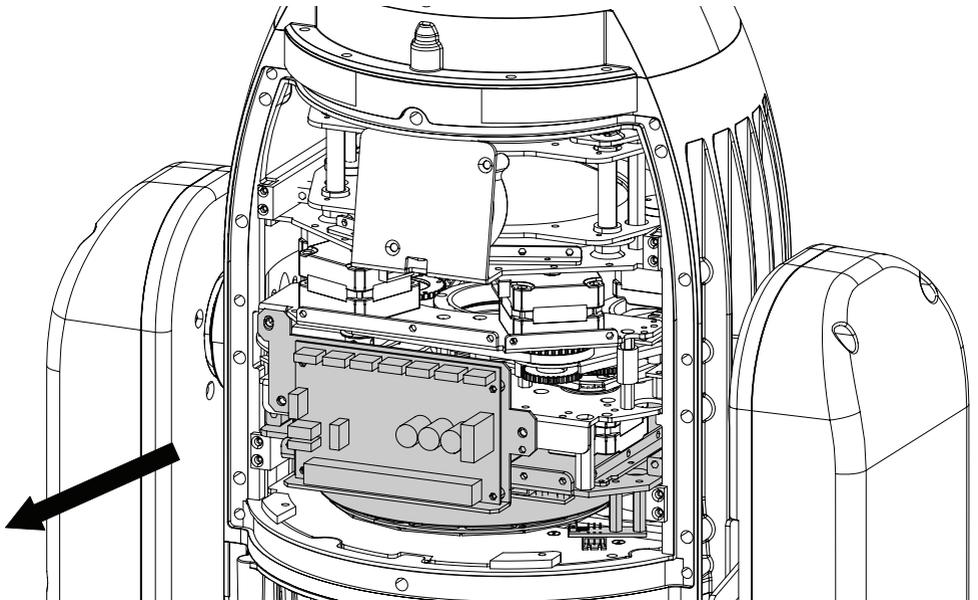
Remove the modules.
NOTE: after to have close the housing please check the correct sealing with the IPTESTBOX (see "19 - TEST OF THE RATED IP65" paragraph).

Fig. 14

19 - TEST OF THE RATED IP65
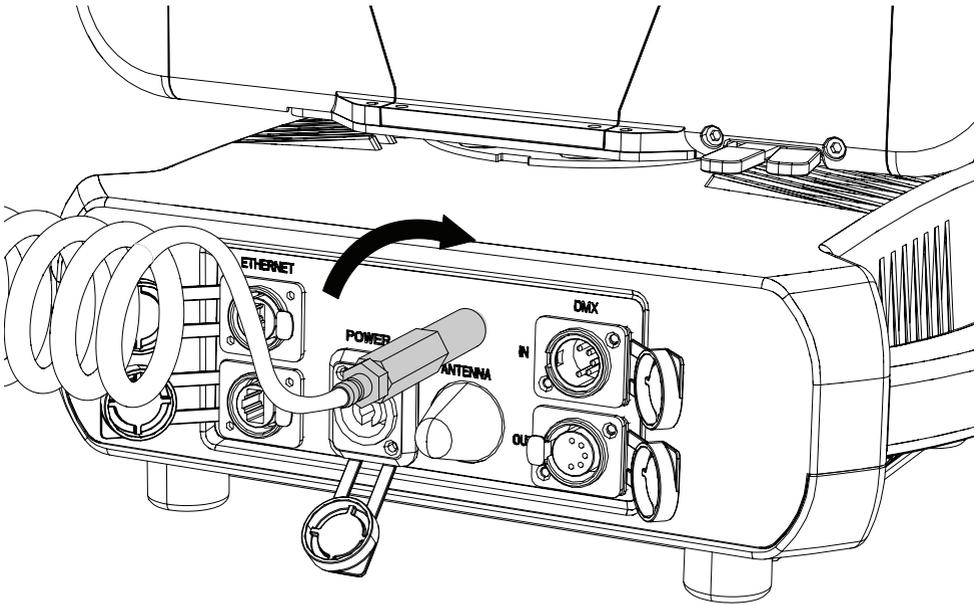
After servicing to controll the correct sealing to use the IPTESTBOX.

1
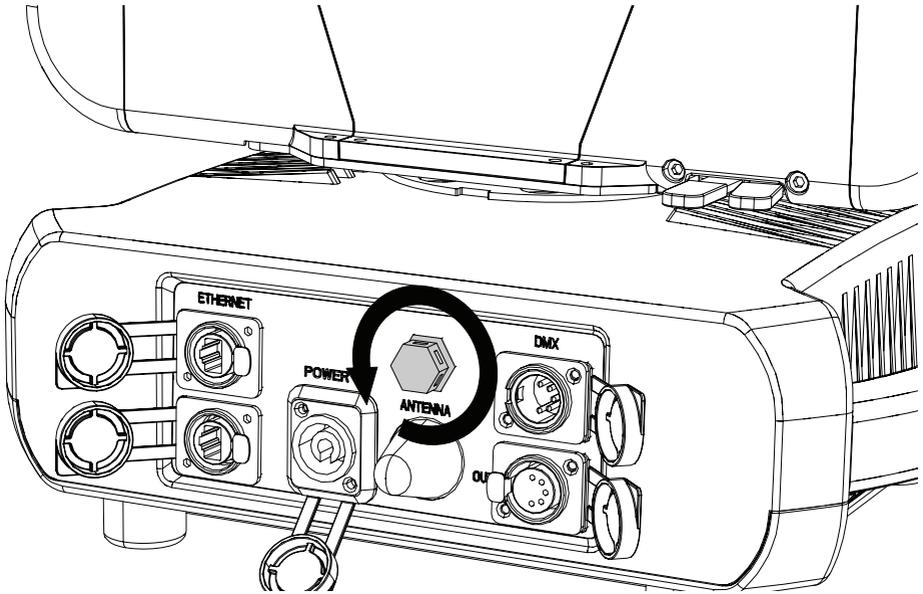
Remove the gore valve from the connections panel.

2
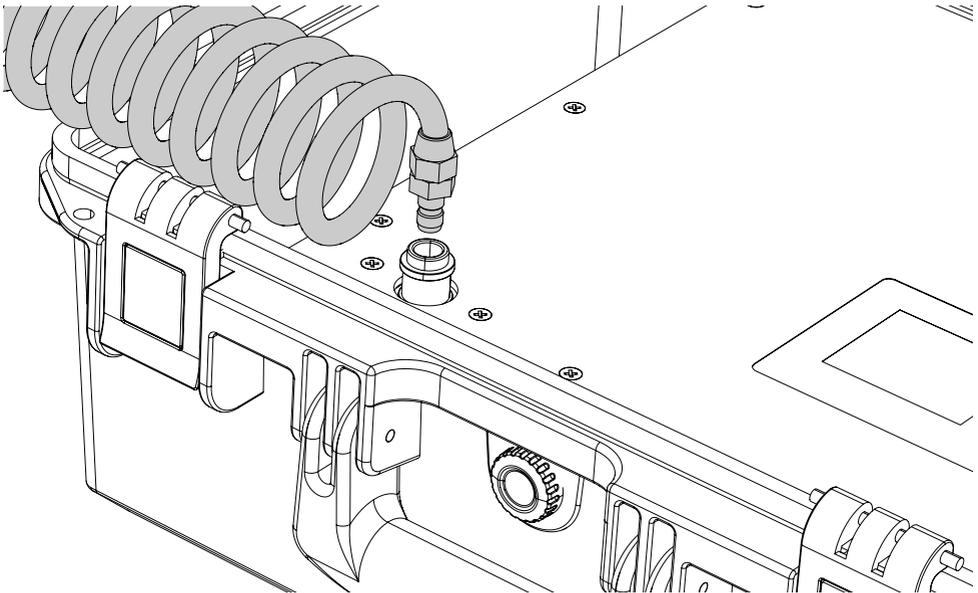
Connect the air hose to the IPTESTBOX by inserting the quick-connect fitting into the coupler.

Insert the threaded end into the threaded valve hole socket.
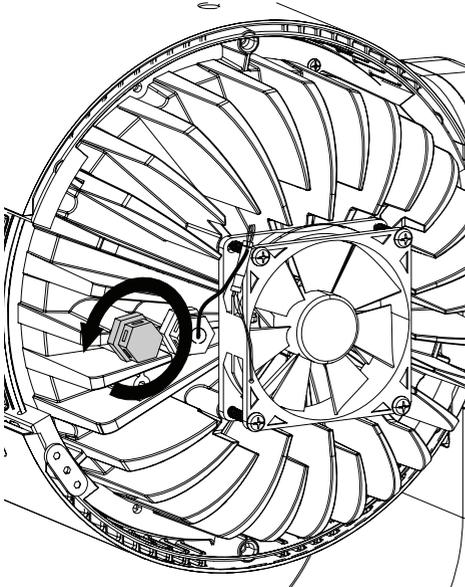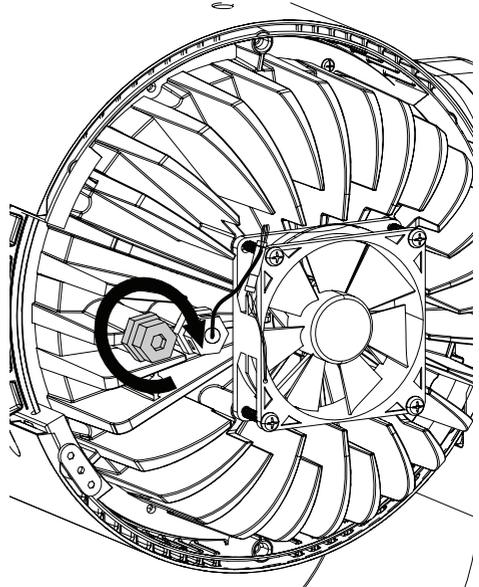
Remove the gore valve on the rear connection heatsilk module (4) and insert the hex socket cap head included in the IPTESTBOX box (5).
For the operating procedure for using the instrument, refer to the IPTESTBOX user manual.

Fig. 15

20 - MAINTENANCE

MAINTENANCE AND CLEANING THE PRODUCT
WARNING: Disconnect from the mains before starting any maintenance work
It is recommended to clean the front at regular intervals, from impurities caused by dust, smoke, or other particles to ensure that the light is radiated at maximum brightness.
- For cleaning, disconnect the main plug from the socket. Use a soft, clean cloth moistened with a mild detergent. Then carefully wipe the part dry. For cleaning other housing parts use only a soft, clean cloth. Never use a liquid, it might penetrate the unit and cause damage to it.
- The user must clean the product periodically to maintain optimum performance and cooling. The user may also upload firmware (product software) to the fixture via the DMX signal input port or USB port using firmware and instructions from PROLIGHTS.
- The frequency of such maintenance operations is to be performed according to various factors, such as the amount of the use and the condition of the installation environment (air humidity, presence of dust, salinity, etc.). It is recommended that the product is subject to annual service by a qualified technician for special maintenance involving at least the following procedures:
- General cleaning of internal parts.
- For all the parts subject to friction, using lubricants specifically supplied by PROLIGHTS.
- General visual check of the internal components, cabling, mechanical parts, etc.
- Electrical, photometric and functional checks; eventual repairs.
- Cleaning the lenses. Only use neutral soap and water to clean the lenses, then dry it carefully with a soft, non-abrasive cloth.
WARNING: the use of alcohol or any other detergent could damage the lenses.
- All other service operations on the product must be carried out by PROLIGHTS, its approved service agents or trained and qualified personnel.
- It is PROLIGHTS policy to apply the strictest possible calibration procedures and use the best quality materials available to ensure optimum performance and the longest possible component lifetimes. However, optical components are subject to wear and tear over the life of the product, resulting in gradual changes in colours over many thousands of hours of use. The extent of wear and tear depends heavily on operating conditions and environment, so it is impossible to specify precisely whether and to what extent performance will be affected. However, you may eventually need to replace optical components if their characteristics are affected by wear and tear after an extended period of use and if you require fixtures to perform within very precise optical and colour parameters.
- Do not apply filters, lenses or other materials on lenses or other optical components. Use only accessories approved by PROLIGHTS.

REPLACING THE FUSE
WARNING: Before replacing the fuse, unplug the product from the mains.
- Remove the old fuse from the housing with a suitable screwdriver (anticlockwise) and replace it with one of the same type and of the same classification (TBC, 5A).

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 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 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 lubrification.	• Check product stored error messages for more information. Contact PROLIGHTS Service or an authorized service partner.
Light output turn OFF Intermittently	• Fixture is too hot.	• 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. • 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.

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