



Jet Profile300LT

300W LT Profile Moving head, with
4° - 44° zoom and CMY



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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INDEX

| | |
|--|-----------|
| SAFETY INFORMATION | 02 |
| 1 - PACKAGING | 05 |
| PACKAGE CONTENT | 05 |
| OPTIONAL ACCESSORIES | 05 |
| 2 - TECHNICAL DRAWING | 05 |
| 3 - PAN AND TILT LOCK | 06 |
| 4 - INSTALLATION | 07 |
| MOUNTING | 07 |
| 5 - CONNECTION TO THE MAINS SUPPLY | 08 |
| 6 - START UP | 08 |
| CONNECT AND DISCONNECT POWER FROM THE PRODUCT | 08 |
| 7 - PRODUCT OVERVIEW | 09 |
| 8 - DMX CONNECTION | 10 |
| CONNECTION OF THE CONTROL SIGNAL: DMX LINE | 10 |
| INSTRUCTIONS FOR A RELIABLE DMX CONNECTION | 10 |
| CONNECTION DAISY CHAIN | 10 |
| CONNECTION OF THE DMX LINE | 10 |
| CONSTRUCTION OF THE DMX TERMINATION | 11 |
| DMX ADDRESSING | 11 |
| 9 - CONTROL PANEL | 12 |
| DISPLAY AND BUTTONS LAYOUT | 12 |
| 10 - MENU STRUCTURE | 13 |
| DIMMER CURVES | 18 |
| DIMMER SPEEDS | 19 |
| 11 - SHORTCUT | 19 |
| 12 - RDM FUNCTIONS | 20 |
| 13 - DMX CHARTS | 23 |
| RDM Personality ID List | 23 |
| RDM Model ID | 23 |
| BLADES BEHAVIOUR | 25 |
| FOCUS TRACKING | 25 |
| 14 - ROTATING GOBOS WHEEL | 35 |
| 15 - COLOR WHEEL | 36 |
| 16 - ANIMATION WHEEL | 37 |
| 17 - ERROR MESSAGES | 38 |
| 18 - PERIODICAL CLEANING | 41 |
| 19 - GOBOS REPLACEMENT | 42 |
| 20 - MODULE REMOVAL (ANIMATION, COLOR, GOBOS WHEEL) | 43 |
| 21 - MAINTENANCE | 44 |
| MAINTENANCE AND CLEANING THE PRODUCT | 44 |
| REPLACING THE FUSE | 44 |
| VISUAL CHECK OF PRODUCT HOUSING | 44 |
| RESETTING THE MAINTENANCE TIME MESSAGE | 45 |

SAFETY INFORMATION



WARNING!

- See <https://www.prolights.it/product/JETPROFILE300LT#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 1.6 meters (5.25 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.



Indoor use

- This product is designed for indoor and dry environments.
- Do not use in wet location and do not expose the fixture to rain or moisture.
- 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 63,5°C

Temperature of the external surface

- The surface of the fixture can reach up to 63.5 °C (146.3 °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.



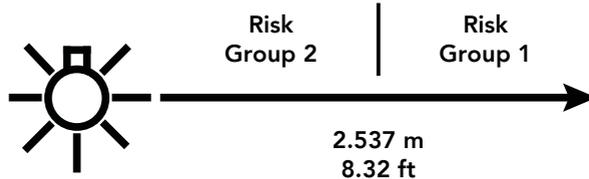
Photobiological safety

- 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 2.537 m (8,32 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).



The products to which this manual refers comply with:

- UL 1573 + CSA C22.2 No. 166 - Stage and Studio Luminaires and Connector Strips.



FCC Compliance:

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



Other approvals

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

1 - PACKAGING

PACKAGE CONTENT

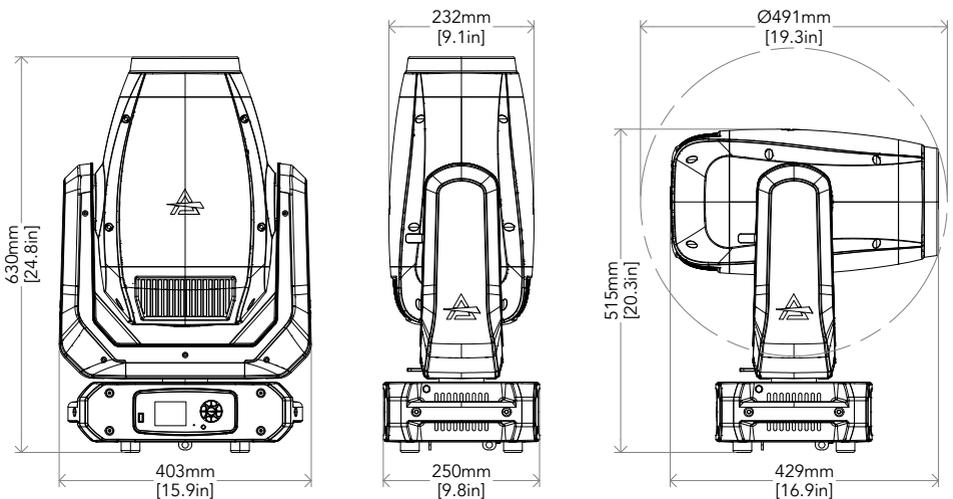
- 1x JETPROFILE300.
- 1x 1,5 meters power cable (BARE END - NEUTRIK POWERCON TRUE1 IP65).
- 2x OS24PLUS, Quick-lock omega bracket.
- User Manual.

OPTIONAL ACCESSORIES

Check the updated accessories list, description and informations of the product at the following link:

<https://www.prolights.it/product/JETPROFILE300#accessories>

2 - TECHNICAL DRAWING

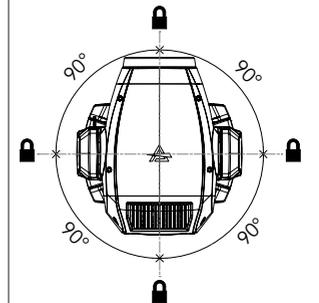
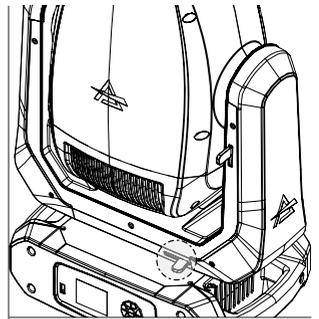
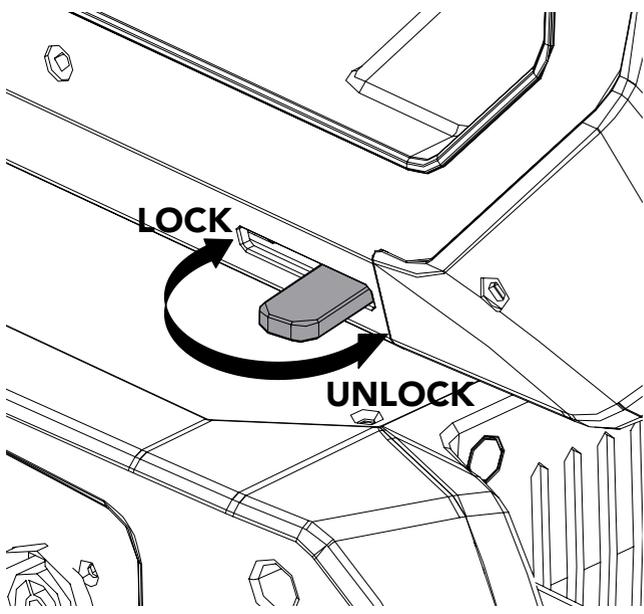


Weight: 21,4 kg - 47,18 lbs

Fig. 01

3 - PAN AND TILT LOCK

PAN Mechanism lock and release



TILT Mechanism lock and release

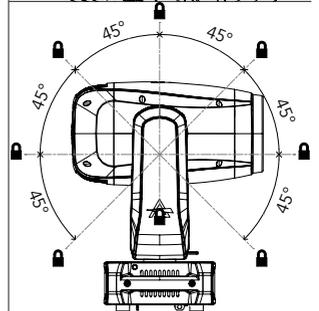
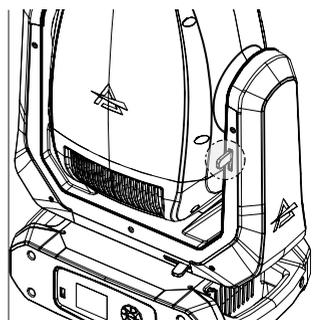
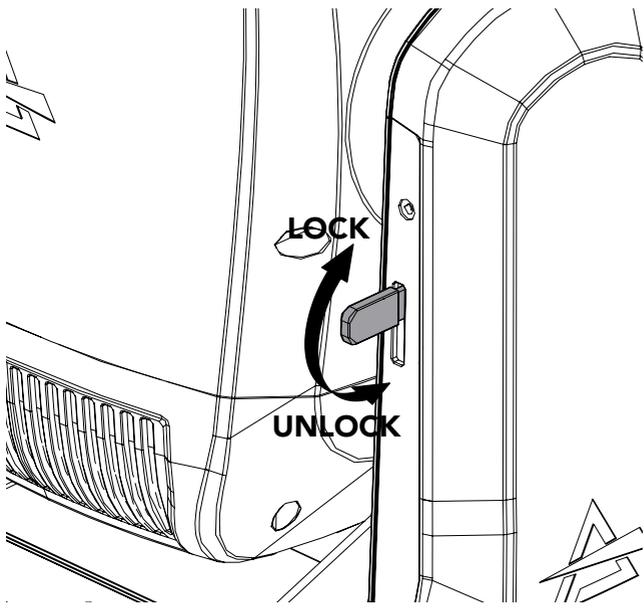


Fig. 02

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.

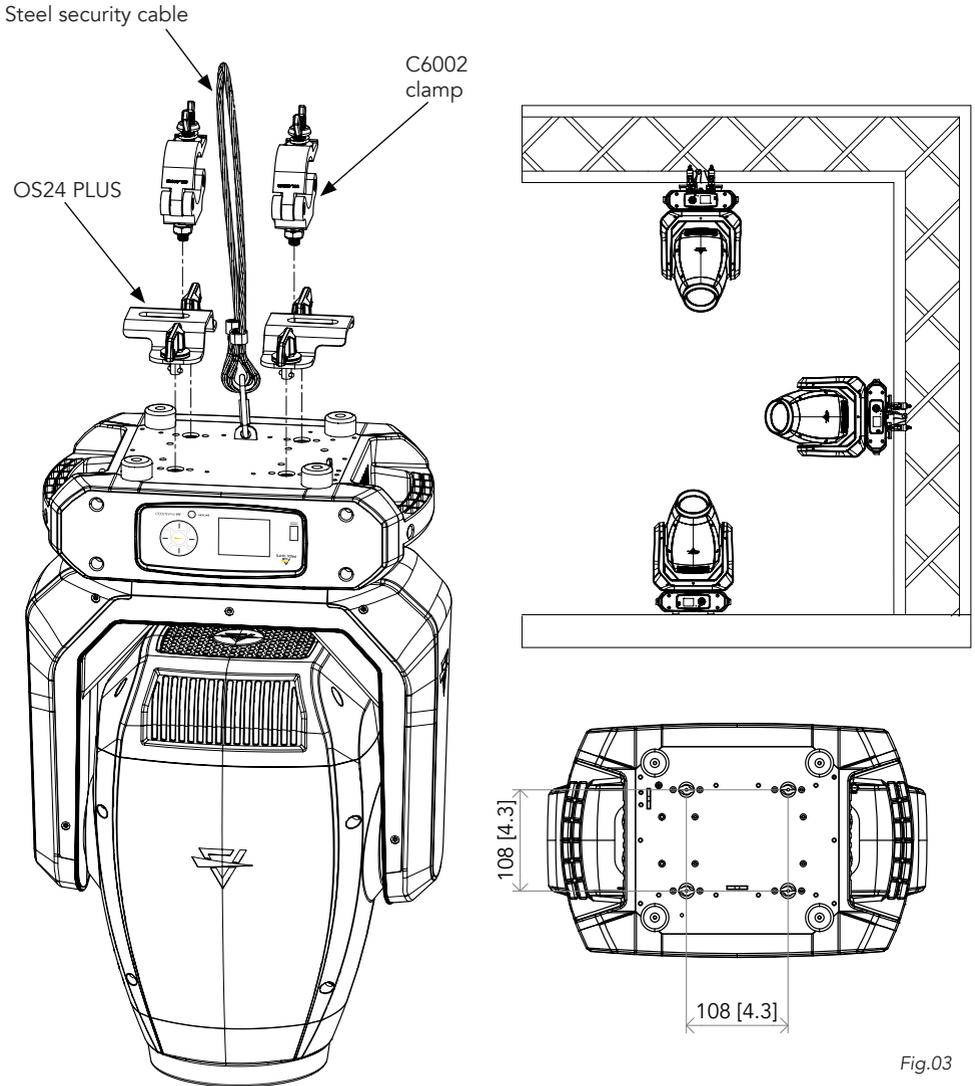


Fig.03

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 (max absolute range : 90- 264V).

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 491W.

| 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. USB PORT for quick firmware upgrade.
2. USER INTERFACE with display and buttons for access to the control panel functions.
3. ANTENNA
4. DMX IN/OUT (5-p XLR): 1 = GND, 2 = sign-, 3 = sign+, 4 N/C, 5 N/C.
5. MAIN FUSE HOLDER: replace a burnt-out fuse by one of the same type only (T6.25A 250V).
6. POWER IN/OUT: for connection to the Mains 100-240V~/50-60Hz.
7. SAFETY EYES: to attach safety cable.

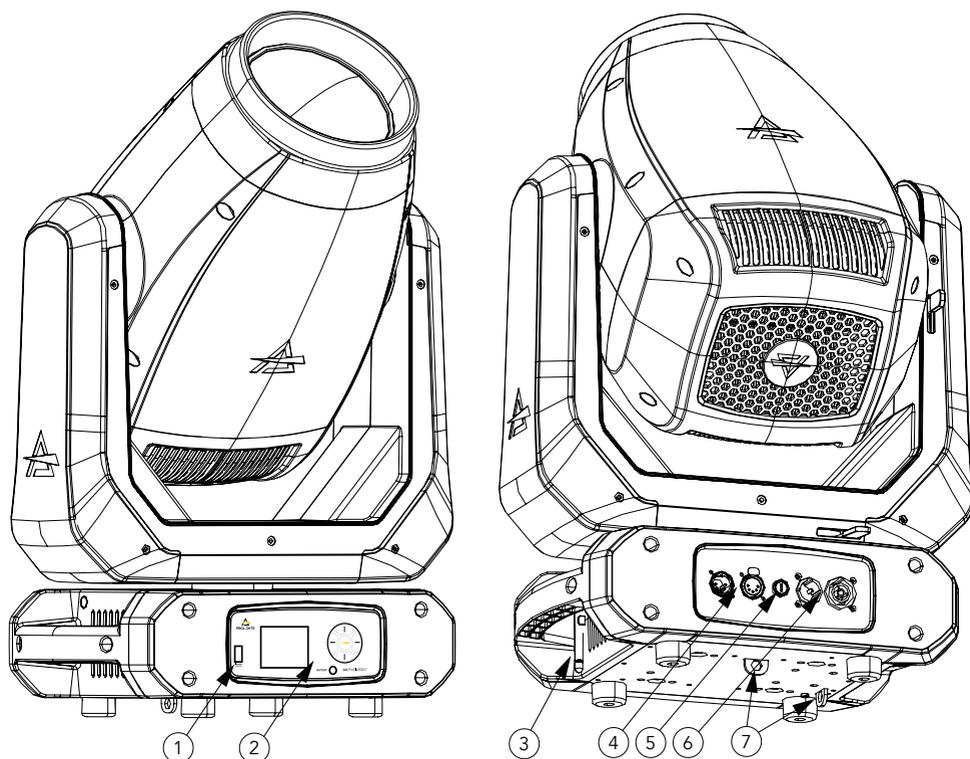


Fig 04

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



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

DMX - OUTPUT XLR socket



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:

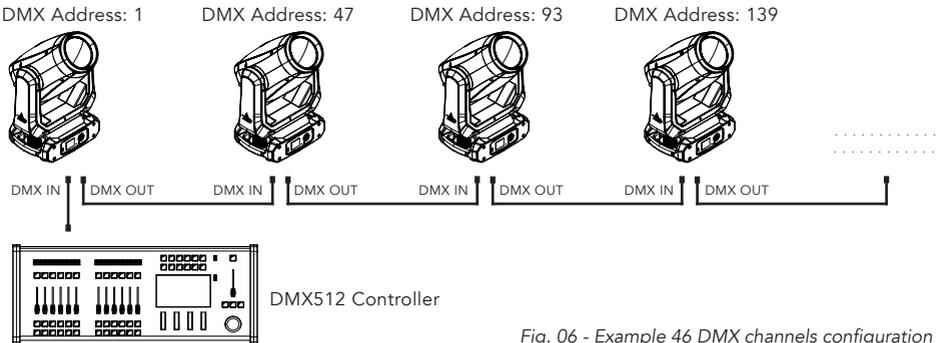


Fig. 06 - Example 46 DMX channels configuration

CONSTRUCTION OF THE DMX TERMINATION

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

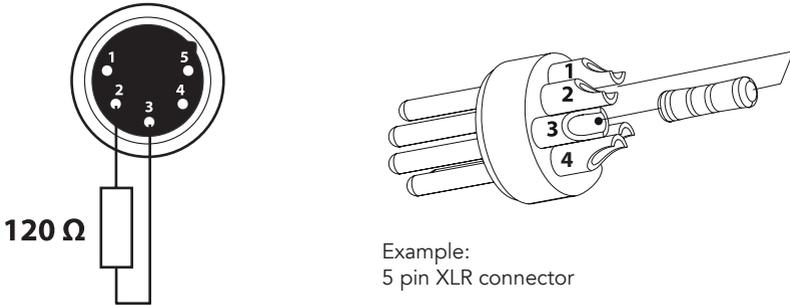


Fig. 07

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 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.

9 - CONTROL PANEL

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

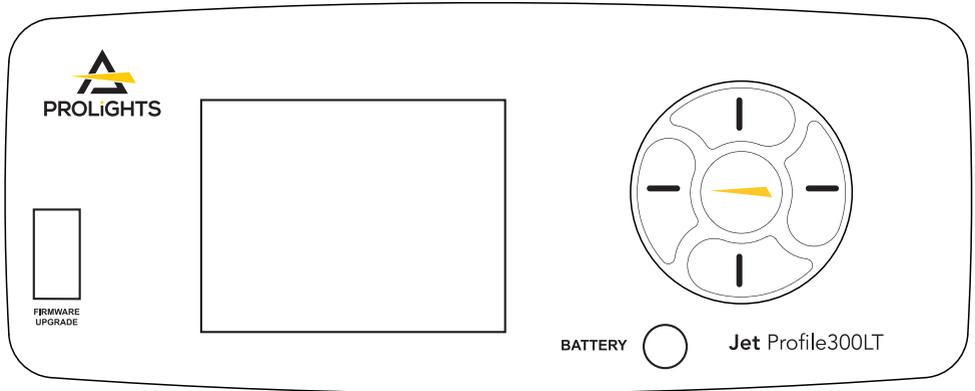


Fig. 08

DISPLAY AND BUTTONS LAYOUT

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

| | | |
|-----------------|---|---|
| | <p>1 </p> <p>2 </p> <p>3 </p> <p>4 </p> <p>5 </p> | <ul style="list-style-type: none"> • Browse upwards through the menu list and increases the numeric value displayed. • Scroll from left to right when entering numerical values, switching between hundreds, tens and units • Browse downwards through the menu list and decreases the numeric value displayed. • Return to the top level, or scroll from right to left when entering numerical values, switching between units, tens and hundreds • Used to confirm the displayed value, or activate the displayed function or to access the menu tree or to return a previous menu window. |
| <p>BATTERY </p> | <ul style="list-style-type: none"> • Switch on the display using backup battery. Hold for 5s. • Switch off display by pressing button 4 for 5s while on being on Home screen. | |
| <p></p> | <ul style="list-style-type: none"> • USB port for Firmware Upgrade. | |

10 - MENU STRUCTURE

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

MENU: CONNECT

| LEVEL 1 | LEVEL 2 | LEVEL 3 | LEVEL 4 | DESCRIPTION |
|-------------|-----------------|---------|---------|-----------------------------------|
| DMX ADDRESS | DMX | 1-512 | | Set DMX Address for Main fixture. |
| DMX MODE | STANDARD | | | Set the DMX mode. |
| | EXTENDED | | | |

MENU: SETUP

| LEVEL 1 | LEVEL 2 | LEVEL 3 | LEVEL 4 | DESCRIPTION |
|----------|---------------|--------------------|---|--|
| SCREEN | BACKLIGHT | ALWAYS ON | | Sets the time after which the display will automatically turn off when inactive. |
| | | 10S | | |
| | | 20S | | |
| | | 30S | | |
| | FLIP DISPLAY | AUTO | | Enables the display to be rotated by 180°. |
| | | ON | | |
| OFF | | | | |
| KEY LOCK | ON | | Lock the buttons on the control panel with a password. To access the user menu, enter the following button sequence (password): UP, DOWN, UP, DOWN, ENTER. | |
| | OFF | | | |
| MOVEMENT | PAN REVERSE | YES | | Allows you to reverse Pan movement. |
| | | NO | | |
| | TILT REVERSE | YES | | Allows you to reverse Tilt movement. |
| | | NO | | |
| | PAN/TILT MODE | FAST | | To choose the horizontal/ vertical movement speed. |
| | | MEDIUM | | |
| SLOW | | | | |
| DIMMER | DIMMER CURVE | LINEAR | | Check pag.18 for further details. |
| | | S-CURVE | | |
| | | SQUARE LAW | | |
| | | INVERSE SQUARE LAW | | |
| | DIMMER SPEED | AUTO | | Check pag.19 for further details. |
| | | FAST | | |
| | | MEDIUM | | |
| SLOW | | | | |
| FIXTURE | FAN MODE | AUTO | | Select Fan behaviour. |
| | | SILENT | | |
| | | HIGH | | |
| | DMX FAULT | HOLD | | Defines fixture behavior on DMX signal loss: HOLD (keep last state), BLACKOUT (turn off), STAND ALONE (run internal program), or EMERGENCY (activate emergency mode with white output). |
| | | BLACKOUT | | |

MENU: SETUP

| LEVEL 1 | LEVEL 2 | LEVEL 3 | LEVEL 4 | DESCRIPTION |
|-------------------|---------------------|------------|---------|---|
| | INVERT ZOOM | ON | | <i>To invert the zoom behaviour.</i> |
| | | OFF | | |
| | INVERT BLADES | ON | | <i>To invert the blades behaviour.</i> |
| | | OFF | | |
| TRANSFER SETTINGS | WITHOUT DMX ADDRESS | | | <i>Transfer settings from the current fixture to another fixture of the same model using the DMX protocol. If a signal from another source is present, the Transfer Configuration function will not be available.</i> |
| | WITH DMX ADDRESS | | | |

MENU: ADVANCED

| LEVEL 1 | LEVEL 2 | LEVEL 3 | LEVEL 4 | DESCRIPTION |
|----------------|-------------------|---------|---------|--|
| LED FREQUENCY | 600 Hz | | | <i>Select PWM frequency. NOTE: Using higher LED Frequency color accuracy may be slightly compromised at low level of dimmer.</i> |
| | 1200Hz | | | |
| | 2000 Hz | | | |
| | 4000 Hz | | | |
| | 6000 Hz | | | |
| | 25 kHz | | | |
| | 50 kHz | | | |
| RESET | ALL | | | <i>To reset these functions.</i> |
| | PAN & TILT | | | |
| | ZOOM / FOCUS | | | |
| | COLORS | | | |
| | GOBOS / ANIMATION | | | |
| | EFFECTS | | | |
| CALIBRATION | PASSWORD | | | <i>To calibrate Password: 050</i> |
| MANUAL CONTROL | PAN | | | |
| | PAN FINE | | | |
| | TILT | | | |
| | TILT FINE | | | |
| | DIMMER | | | |
| | DIMMER FINE | | | |
| | SHUTTER | | | |
| | CYAN | | | |
| | MAGENTA | | | |
| | YELLOW | | | |
| | COLOR1 | | | |
| | COLOR2 | | | |
| | CTO | | | |
| | ROT GOBO | | | |
| | GOBO ROT | | | |
| | GOBO ROT FINE | | | |
| | PRISM 1 | | | |
| | PRISM 1 ROT | | | |
| | PRISM 2 | | | |
| | PRISM 2 ROT | | | |
| | FROST | | | |
| | ZOOM | | | |
| | ZOOM FINE | | | |
| FOCUS | | | | |
| FOCUS FINE | | | | |
| ANIMATION | | | | |

MENU: ADVANCED

| LEVEL 1 | LEVEL 2 | LEVEL 3 | LEVEL 4 | DESCRIPTION |
|----------------|--------------------|-----------|---------|---|
| MANUAL CONTROL | ANIMATION ROTATION | | | |
| | FRAME ROT | | | |
| | BLADE 1 POSITON | | | |
| | BLADE 1 ROT | | | |
| | ... | | | |
| | BLADE 4 POSITON | | | |
| | BLADE 4 ROT | | | |
| | CONTROL | | | |
| RELOAD DEFAULT | BASIC RELOAD | YES | | <i>Default of all parameters excepted Calibration</i> |
| | | NO | | |
| | FACTORY RELOAD | YES | | <i>Delete all USER PRESETS stored</i> |
| | | NO | | |

MENU: INFORMATIONS

| LEVEL 1 | LEVEL 2 | LEVEL 3 | LEVEL 4 | DESCRIPTION |
|------------------|---|----------|----------|--|
| FIXTURE TIME | FIXTURE HOURS | TOTAL | <65535H> | View informations about product operating lifetime. Fixture Hours is countered based on general operation time. |
| | | PARTIAL | <65535H> | |
| | CURRENT HOURS | TOTAL | <65535H> | Hours are countered since Power is plugged in. Source Hours is countered based on LED Activity time |
| | | PARTIAL | <65535H> | |
| | SOURCE HOURS | TOTAL | <65535H> | |
| | | PARTIAL | <65535H> | |
| | AC POWER ON CYCLE | TOTAL | <65535H> | |
| | | PARTIAL | <65535H> | |
| MAINTENANCE TIME | ELAPSED TIME | | | |
| | ALERT PERIOD | 10 - 750 | | |
| POWER CONS. | ** W | | | Show estimated power consumption. |
| POWER LED | ** W | | | Show estimated power to the LED source. |
| TEMPERATURE | NEAR SOURCE TEMP, DRIVER PCB TEMP, LED PCB TEMP,... | | | |
| FAN SPEED | NEAR SOURCE FAN, BASE FAN,... | | | Show all FAN speeds. |
| CHANNEL VALUE | | | | Show all Channel values as a list, value shown depends on DMX Mode |
| ERROR MESSAGE | | | | Show error message |
| DEVICE LABEL | JETPROFILE300LT | | | Show RDM Label. |
| DEVICE MODEL | JETPROFILE300LT | | | Show RDM fixture model |
| RDM UID | | | | Show RDM UID of the fixture. |
| SOFTWARE VERSION | 1U01 V1.0.00... | | | Show firmware version of the fixture |

DIMMER CURVES

Five dimming modes are available:

1. **LINEAR** - Light intensity increases proportionally to the DMX value, creating a linear perception.
2. **S-CURVE** - Light intensity is finer at low and high levels, with coarser control at mid-levels.
3. **SQUARE LAW** - Light intensity is finer at low levels and becomes coarser at higher levels.
4. **INVERSE SQUARE LAW** - Light intensity is coarser at low levels and finer at higher levels.

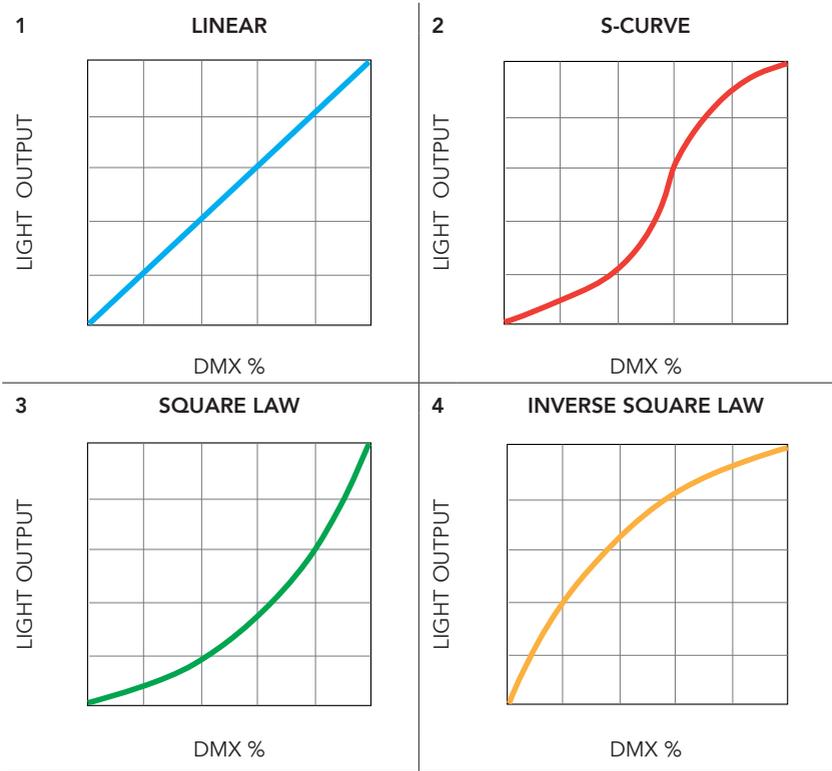


Fig. 09

DIMMER SPEEDS

Five dimming speeds are available:

1. **AUTO** - When the DMX value changes by more than 50 DMX values, the intensity will instantly adjust to the new value. For changes less than 50 DMX values, the fast dimming curve will be applied.
2. **FAST** - Indicates the fast speed dimming curve. Refer to the diagram for reference.
3. **MEDIUM** - Indicates the medium speed dimming curve. Refer to the diagram for reference.
4. **SLOW** - Indicates the slow dimming curve. Refer to the diagram for reference.

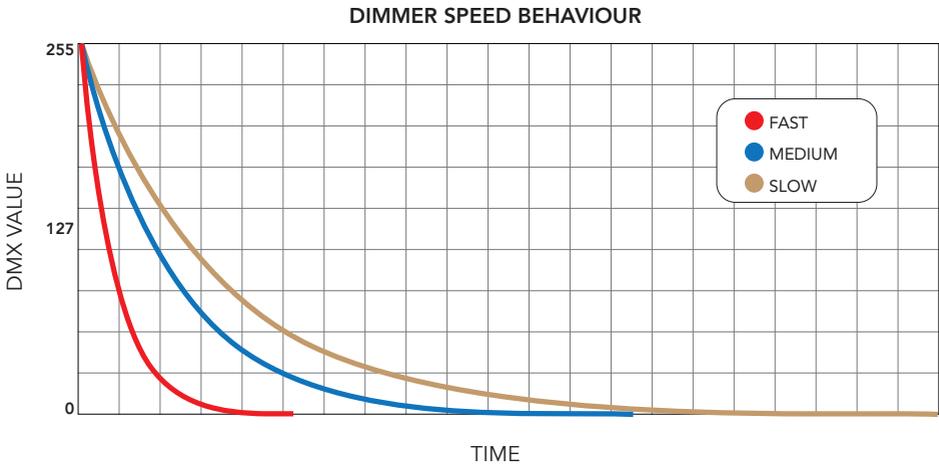


Fig.10

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 |
| ENTER + UP then power on | Bootloader | Force firmware upgrade |
| CONTROL CHANNEL set to 220 + PAN FINE CHANNEL SET TO 255, within 3s PAN FINE need to be set to 0 | Basic Reload | This Reload also reset DMX address and mode. This combination need to be performed while fixture is resetting |

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.

| Category | Parameter | Value | 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 | |
| DMX512 Setup | BOOT_SOFTWARE_VERSION_LABEL | 0x00C2 | x | |
| | 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 |
| Sensors | DMX_FAIL_MODE | 0x0141 | x | x |
| | DMX_STARTUP_MODE | 0x0142 | x | x |
| | SENSOR_DEFINITION | 0x0200 | x | |
| Dimmer Settings | SENSOR_VALUE | 0x0201 | x | x |
| | RECORD_SENSORS | 0x0202 | | x |
| | 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 | | |

| Category | Parameter | Value | GET | SET |
|----------------------------|------------------------|--------|-----|-----|
| Power/Lamp Settings | DEVICE_HOURS | 0x0400 | x | x |
| | LAMP_HOURS | 0x0401 | x | x |
| | LAMP_STRIKES | 0x0402 | x | x |
| | LAMP_STATE | 0x0403 | x | x |
| | LAMP_MODE | 0x0404 | x | x |
| | DEVICE_POWER_CYCLES | 0x0405 | x | x |
| | BURN_IN | 0x0440 | 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 |

Manufacturer Specific PIDs

| Parameter | PID | GET | SET | Value | Description |
|----------------------------|--------|-----|-----|---------|---|
| CURRENT_HOURS | 0x82C5 | x | | 0-65535 | * h |
| CLEAN_ALL_DATA | 0x82C8 | x | x | 0-1 | 0: No 1: Yes |
| DMX_FAULT | 0x82DD | x | x | 0-1 | 0: Hold 1: Blackout |
| MAINTENANCE_T_ALERT_PERIOD | 0x82DF | x | x | | |
| MAINTENANCE_T_ELAPSED_TIME | 0x82E0 | x | x | | * h |
| ERROR_MESSAGE | 0x82EA | x | | | 0: No error 1: Bus display TX fail ... 38: Prism 6s Index |
| POWER_CONSUMPTION | 0x82EF | x | | | **W |

13 - DMX CHARTS

RDM Personality ID List

| ID | DMX Mode | Footprint |
|----|----------|-----------|
| 1 | STANDARD | 38 |
| 2 | EXTENDED | 42 |

RDM Model ID

0xA035

PAN/TILT POSITION RELATED TO DMX VALUES

Home position set to *CUSTOM (Default)*

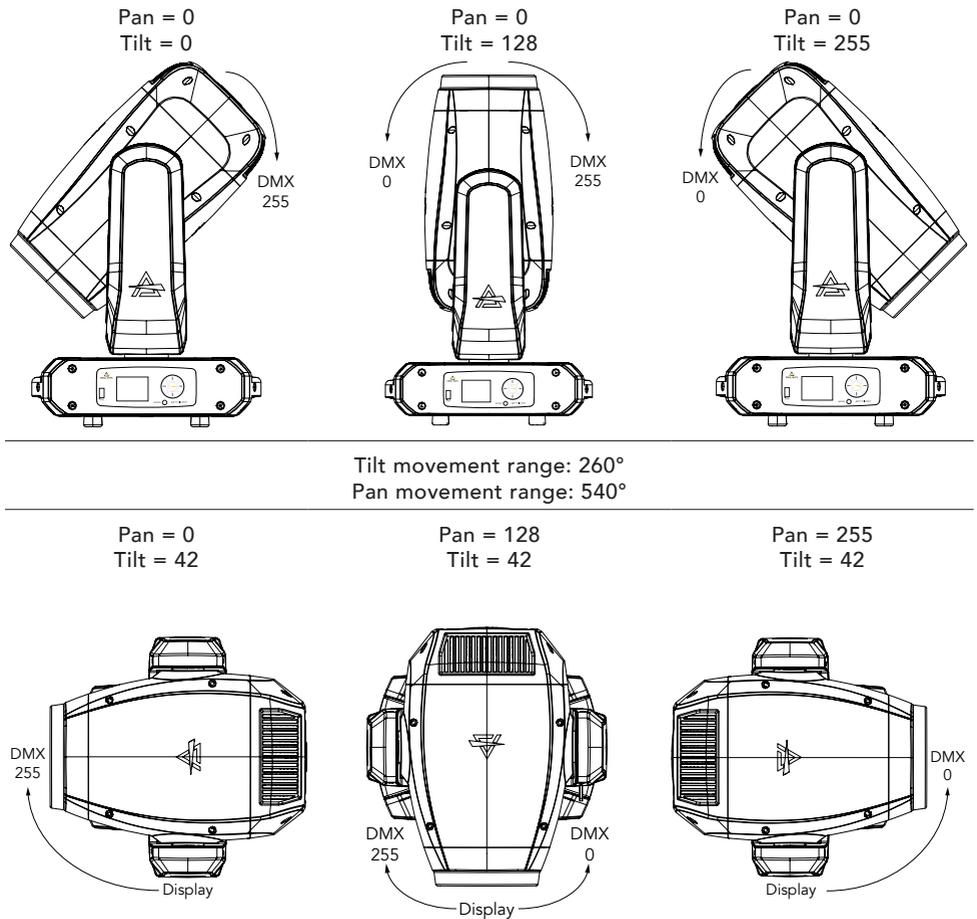
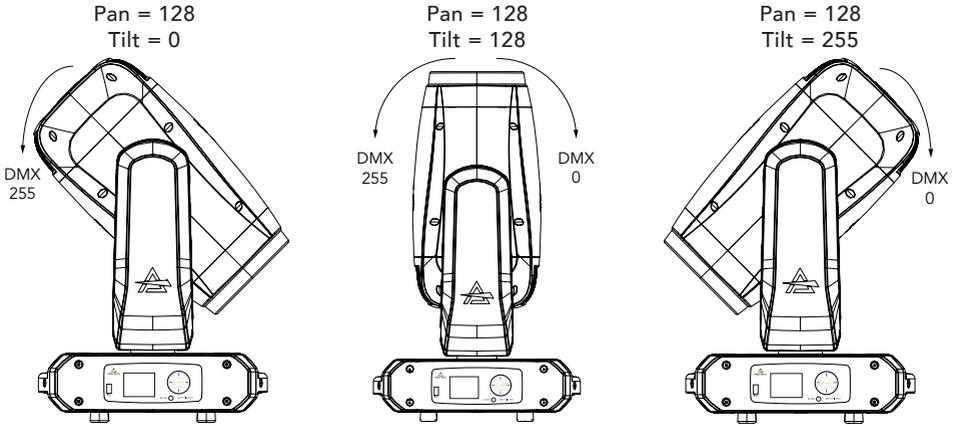


Fig.11

PAN/TILT POSITION RELATED TO DMX VALUES

Home position set to STANDARD (User selectable)



Tilt movement range: 260°
Pan movement range: 540°

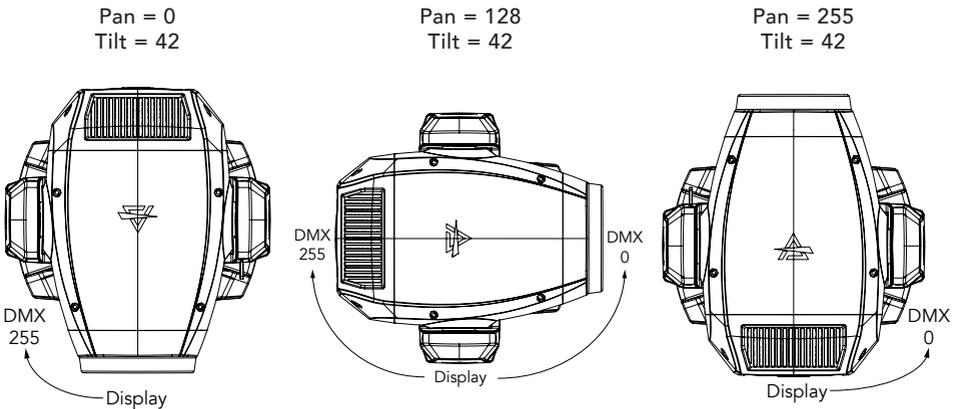
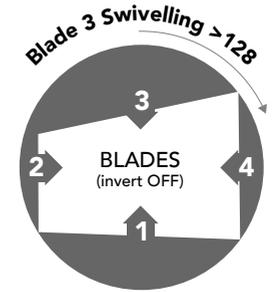
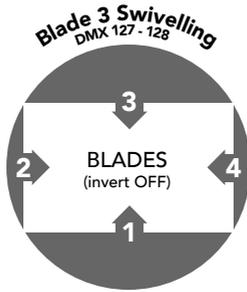
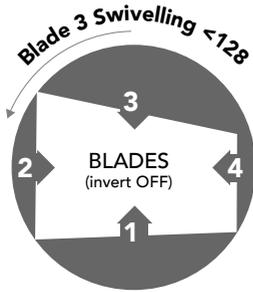
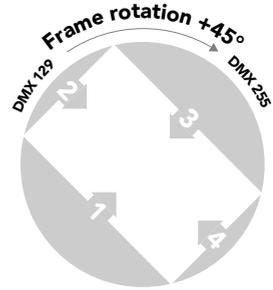
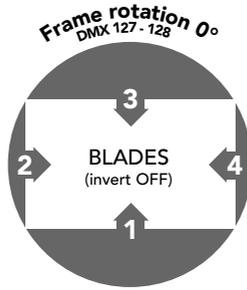
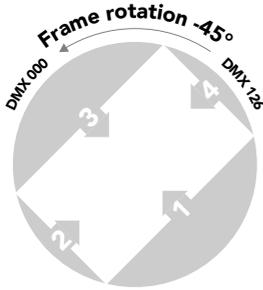


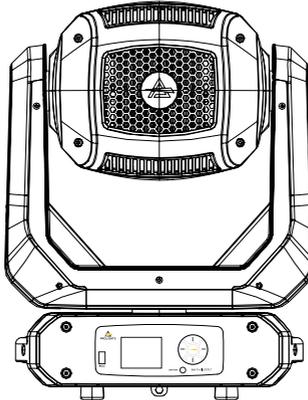
Fig.12

BLADES BEHAVIOUR

Check Below image for all the informations about the profile module



PROJECTION ON THE WALL



Fixture with
CUSTOM HOME POSITION
and PAN/TILT channels @
PAN @50% - DMX128
TILT @ 84% - DMX 214

Fixture with
STANDARD HOME POSITION
and PAN/TILT channels @
PAN @50% - DMX 172
TILT @ 84% - DMX 214

Fig.13

FOCUS TRACKING

This function provides auto-adjustment of the focus during the zoom movement:

1. Select the function to be tracked via channel 35/39 ("Focus Tracking").
2. Focus the selected function at a narrow zoom (**NOTE: the zoom value must be less than 135**).
3. As you adjust the zoom, the focus will automatically follow, keeping the projection focused.
4. If you select a different function via channel 35/39 ("Focus Tracking"), the focus will automatically adjust to track the new selection.

DMX Chart Summary

| DMX MODE | | Function | DMX MODE | | Function |
|-------------------|------------------|-----------------------------------|-------------------|------------------|---------------------|
| STANDARD 38 ch | EXTENDED 42ch | | STANDARD 38 ch | EXTENDED 42ch | |
| 1 | 1 | Pan | 20 | 22 | Prism 2 Index/Rot |
| 2 | 2 | Pan fine | 21 | 23 | Frost |
| 3 | 3 | Tilt | 22 | 24 | Zoom |
| 4 | 4 | Tilt fine | 23 | 25 | Zoom Fine |
| 5 | 5 | Dimmer | 24 | 26 | Focus |
| 6 | 6 | Dimmer Fine | 25 | 27 | Focus Fine |
| 7 | 7 | Shutter | 26 | 28 | Animation Insertion |
| 8 | 8 | Cyan | 27 | 29 | Animation Rotation |
| 9 | 9 | Magenta | 28 | 30 | Blade 1 position |
| 10 | 10 | Yellow | 29 | 31 | Blade 1 swivelling |
| 11 | 11 | CTO | 30 | 32 | Blade 2 position |
| 12 | 12 | Color Wheel 1 | 31 | 33 | Blade 2 swivelling |
| - | 13 | Color Wheel 1 Fine Positioning | 32 | 34 | Blade 3 position |
| 13 | 14 | Color Wheel 2 | 33 | 35 | Blade 3 swivelling |
| - | 15 | Color Wheel 2 Fine Positioning | 34 | 36 | Blade 4 position |
| 14 | 16 | Rot Gobo Wheel | 35 | 37 | Blade 4 swivelling |
| 15 | 17 | Gobo Rot | 36 | 38 | Frame rotation |
| 16 | 18 | Gobo Rot Fine | - | 39 | Frame macros |
| 17 | 19 | Prism 1 | - | 40 | Frame macros speed |
| 18 | 20 | Prism 1 Index/Rot | 37 | 41 | Focus Tracking |
| 19 | 21 | Prism 2 | 38 | 42 | Control |

| DMX MODE | | Name | Function | DMX | | Default |
|-------------------|-------------------|---------------|----------------------------------|------|-----|---------|
| STANDARD 38 ch | EXTENDED 42 ch | | | FROM | TO | |
| 1 | 1 | Pan | Pan movement | 0 | 255 | 128 |
| 2 | 2 | Pan fine | Fine pan movement | 0 | 255 | 0 |
| 3 | 3 | Tilt | Tilt movement | 0 | 255 | 128 |
| 4 | 4 | Tilt fine | Fine tilt movement | 0 | 255 | 0 |
| 5 | 5 | Dimmer | Dimmer intensity 0 – 100% | 0 | 255 | 0 |
| 6 | 6 | Dimmer Fine | Fine dimming | 0 | 255 | 0 |
| 7 | 7 | Shutter | Open | 0 | 1 | 0 |
| | | | Strobe from slow to fast | 2 | 62 | |
| | | | Open | 63 | 64 | |
| | | | Pulse in from slow to fast | 65 | 125 | |
| | | | Close | 126 | 127 | |
| | | | Pulse out from slow to fast | 128 | 188 | |
| | | | Open | 189 | 190 | |
| | | | Randon from slow to fast | 191 | 251 | |
| Open | 252 | 255 | | | | |
| 8 | 8 | Cyan | Linear saturation 0 – 100% | 0 | 255 | 0 |
| 9 | 9 | Magenta | Linear saturation 0 – 100% | 0 | 255 | 0 |
| 10 | 10 | Yellow | Linear saturation 0 – 100% | 0 | 255 | 0 |
| 11 | 11 | CTO | Linear saturation 0 – 100% | 0 | 255 | 0 |
| 12 | 12 | Color Wheel 1 | Color Positioning | | | 0 |
| | | | Open | 0 | | |
| | | | Open + Dark Red | 1 | 30 | |
| | | | Dark Red | | 31 | |
| | | | Dark Red + High Cri | 32 | 61 | |
| | | | High Cri | | 62 | |
| | | | High Cri + Lavander | 63 | 92 | |
| | | | Lavander | | 93 | |
| | | | Lavander + Cyan | 94 | 123 | |
| | | | Cyan | 124 | 159 | |
| | | | Color Slot | | | |
| | | | Open | 160 | 167 | |
| | | | Dark Red | 168 | 175 | |
| | | | High Cri | 176 | 183 | |
| | | | Lavander | 184 | 191 | |
| | | | Cyan | 192 | 199 | |
| | | | Color Wheel Rotation | | | |
| | | | Forward rainbow - Fast to slow | 200 | 224 | |
| | | | No rotation | 225 | 230 | |
| | | | Backwards rainbow - Slow to fast | 231 | 255 | |

| DMX MODE | | Name | Function | DMX | | Default | |
|----------------------------------|-------------------|-----------------------------------|-----------------------------|------|-----|---------|---|
| STANDARD 38 ch | EXTENDED 42 ch | | | FROM | TO | | |
| - | 13 | Color Wheel 1 Fine Positioning | Fine positioning | 0 | 255 | 0 | |
| 13 | 14 | Color Wheel 2 | Color Positioning | | | | 0 |
| | | | Open | 0 | | | |
| | | | Open + Dark Blue | 1 | 30 | | |
| | | | Dark Blue | 31 | | | |
| | | | Dark Blue + Light Orange | 32 | 61 | | |
| | | | Light Orange | 62 | | | |
| | | | Light Orange + Light Green | 63 | 92 | | |
| | | | Light Green | 93 | | | |
| | | | Light Green + Magenta | 94 | 123 | | |
| | | | Magenta | 124 | 159 | | |
| | | | Color Slot | | | | |
| | | | Open | 160 | 167 | | |
| | | | Dark Blue | 168 | 175 | | |
| | | | Light Orange | 176 | 183 | | |
| | | | Light Green | 184 | 191 | | |
| | | | Magenta | 192 | 199 | | |
| | | | Color Wheel Rotation | | | | |
| Forward rainbow - Fast to slow | 200 | 224 | | | | | |
| No rotation | 225 | 230 | | | | | |
| Backwards rainbow - Slow to fast | 231 | 255 | | | | | |
| - | 15 | Color Wheel 2 Fine Positioning | Fine positioning | 0 | 255 | 0 | |

| DMX MODE | | Name | Function | DMX | | Default | |
|--|-------------------|----------------|--|------|-----|---------|---|
| STANDARD 38 ch | EXTENDED 42 ch | | | FROM | TO | | |
| 14 | 16 | Rot Gobo Wheel | Open | 0 | 11 | 0 | |
| | | | Gobo Indexing (set next ch) | | | | |
| | | | GOBO 1 | 12 | 19 | | |
| | | | GOBO 2 | 20 | 27 | | |
| | | | GOBO 3 | 28 | 35 | | |
| | | | GOBO 4 | 36 | 43 | | |
| | | | GOBO 5 | 44 | 51 | | |
| | | | GOBO 6 | 52 | 59 | | |
| | | | GOBO 7 | 60 | 67 | | |
| | | | Gobo Rotation (set next ch) | | | | |
| | | | GOBO 1 | 68 | 75 | | |
| | | | GOBO 2 | 76 | 83 | | |
| | | | GOBO 3 | 84 | 91 | | |
| | | | GOBO 4 | 92 | 99 | | |
| | | | GOBO 5 | 100 | 107 | | |
| | | | GOBO 6 | 108 | 115 | | |
| | | | GOBO 7 | 116 | 123 | | |
| | | | Gobo shaking - Slow to fast (Index on next channel) | | | | |
| | | | GOBO 1 | 124 | 133 | | |
| | | | GOBO 2 | 134 | 143 | | |
| | | | GOBO 3 | 144 | 153 | | |
| | | | GOBO 4 | 154 | 163 | | |
| | | | GOBO 5 | 164 | 173 | | |
| | | | GOBO 6 | 174 | 183 | | |
| | | | GOBO 7 | 184 | 193 | | |
| | | | Gobo Wheel Rotation | | | | |
| | | | Forward rotation - Fast to slow | 194 | 223 | | |
| | | | No rotation | 224 | 225 | | |
| Backwards rotation - Slow to fast | 226 | 255 | | | | | |
| 15 | 17 | Gobo Rot | Gobo Indexing | | | 128 | |
| | | | Gobo index 0° - 360° | 0 | 255 | | |
| | | | Gobo Rotation | | | | |
| | | | No rotation | 0 | 0 | | 0 |
| | | | Forward gobo rotation - Fast to slow | 1 | 127 | | |
| | | | No rotation | 128 | 128 | | |
| Backwards gobo rotation - Slow to fast | 129 | 255 | | | | | |
| 16 | 18 | Gobo Rot Fine | Fine indexing/rotation | 0 | 255 | 0 | |

| DMX MODE | | Name | Function | DMX | | Default |
|---------------------------------------|-------------------|----------------------------|-------------------------------------|------|-----|---------|
| STANDARD 38 ch | EXTENDED 42 ch | | | FROM | TO | |
| 17 | 19 | Prism 1 | Open | 0 | 29 | 0 |
| | | | Prism Indexing (set next ch) | 30 | 59 | |
| | | | Prism Rotation (set next ch) | 60 | 89 | |
| | | | Reserved | 90 | 255 | |
| 18 | 20 | Prism 1 Index/ Rotation | Prism Indexing | | 0 | 255 |
| | | | Prism Indexing | 0 | | |
| | | | Prism Rotation | | 0 | |
| | | | Prism No Rotation | 0 | | 0 |
| | | | Prism forward rotation fast to slow | 1 | | 127 |
| | | | Prism No Rotation | 128 | | 128 |
| Prism backwards rotation slow to fast | 129 | 255 | | | | |
| 19 | 21 | Prism 2 | Open | 0 | 29 | 0 |
| | | | Prism Indexing (set next ch) | 30 | 59 | |
| | | | Prism Rotation (set next ch) | 60 | 89 | |
| | | | Reserved | 90 | 255 | |
| 20 | 22 | Prism 2 Index/ Rotation | Prism Indexing | | 0 | 255 |
| | | | Prism Indexing | 0 | | |
| | | | Prism Rotation | | 0 | |
| | | | Prism No Rotation | 0 | | 0 |
| | | | Prism forward rotation fast to slow | 1 | | 127 |
| | | | Prism No Rotation | 128 | | 128 |
| Prism backwards rotation slow to fast | 129 | 255 | | | | |
| 21 | 23 | Frost | Linear insertion 0 – 100% | 0 | 255 | 0 |
| 22 | 24 | Zoom | Zoom from min to max beam angle | 0 | 255 | 128 |
| 23 | 25 | Zoom Fine | Fine zooming | 0 | 255 | 0 |
| 24 | 26 | Focus | Focus adjustment | 0 | 255 | 128 |
| 25 | 27 | Focus Fine | Fine focusing | 0 | 255 | 0 |
| 26 | 28 | Animation Insertion | Linear insertion from 0% to 100% | 0 | 255 | 0 |
| 27 | 29 | Animation Rotation | Indexing | 0 | 127 | 0 |
| | | | Forward rotation - Fast to slow | 128 | 190 | |
| | | | Stop | 191 | 192 | |
| | | | Backwards rotation - Slow to fast | 193 | 255 | |
| 28 | 30 | Blade 1 position | Movement from outward to inward | 0 | 255 | 0 |
| 29 | 31 | Blade 1 swivelling | Swivelling from -30° towards 0° | 0 | 127 | 128 |
| | | | 0 degrees | 128 | 128 | |
| | | | Swivelling from 0° towards +30° | 129 | 255 | |
| 30 | 32 | Blade 2 position | Movement from outward to inward | 0 | 255 | 0 |
| 31 | 33 | Blade 2 swivelling | Swivelling from -30° towards 0° | 0 | 127 | 128 |
| | | | 0 degrees | 128 | 128 | |
| | | | Swivelling from 0° towards +30° | 129 | 255 | |

| DMX MODE | | Name | Function | DMX | | Default |
|-------------------|-------------------|-----------------------|---------------------------------|------|-----|---------|
| STANDARD 38 ch | EXTENDED 42 ch | | | FROM | TO | |
| 32 | 34 | Blade 3 position | Movement from outward to inward | 0 | 255 | 0 |
| 33 | 35 | Blade 3 swivelling | Swivelling from -30° towards 0° | 0 | 127 | 128 |
| | | | 0 degrees | 128 | 128 | |
| | | | Swivelling from 0° towards +30° | 129 | 255 | |
| 34 | 36 | Blade 4 position | Movement from outward to inward | 0 | 255 | 0 |
| 35 | 37 | Blade 4 swivelling | Swivelling from -30° towards 0° | 0 | 127 | 128 |
| | | | 0 degrees | 128 | 128 | |
| | | | Swivelling from 0° towards +30° | 129 | 255 | |
| 36 | 38 | Frame rotation | -45 degrees to 0 degrees | 0 | 126 | 128 |
| | | | 0 degrees | 127 | 128 | |
| | | | 0 degrees to +45 degrees | 129 | 255 | |

| DMX MODE | | Name | Function | DMX | | Default |
|-------------------|-------------------|--------------------|------------------------|------|-----|---------|
| STANDARD 38 ch | EXTENDED 42 ch | | | FROM | TO | |
| - | 39 | Frame macros | No Function | 0 | 3 | 0 |
| | | | Macro 1 | 4 | 10 | |
| | | | Macro 2 | 11 | 17 | |
| | | | Macro 3 | 18 | 24 | |
| | | | Macro 4 | 25 | 31 | |
| | | | Macro 5 | 32 | 38 | |
| | | | Macro 6 | 39 | 45 | |
| | | | Macro 7 | 46 | 52 | |
| | | | Macro 8 | 53 | 59 | |
| | | | Macro 9 | 60 | 66 | |
| | | | Macro 10 | 67 | 73 | |
| | | | Macro 11 | 74 | 80 | |
| | | | Macro 12 | 81 | 87 | |
| | | | Macro 13 | 88 | 94 | |
| | | | Macro 14 | 95 | 101 | |
| | | | Macro 15 | 102 | 108 | |
| | | | Macro 16 | 109 | 115 | |
| | | | Macro 17 | 116 | 122 | |
| | | | Macro 18 | 123 | 129 | |
| | | | Macro 19 | 130 | 136 | |
| | | | Macro 20 | 137 | 143 | |
| | | | Macro 21 | 144 | 150 | |
| | | | Macro 22 | 151 | 157 | |
| | | | Macro 23 | 158 | 164 | |
| | | | Macro 24 | 165 | 171 | |
| | | | Macro 25 | 172 | 178 | |
| | | | Macro 26 | 179 | 185 | |
| | | | Macro 27 | 186 | 192 | |
| | | | Macro 28 | 193 | 199 | |
| | | | Macro 29 | 200 | 206 | |
| | | | Macro 30 | 207 | 213 | |
| | | | Macro 31 | 214 | 220 | |
| | | | Macro 32 | 221 | 227 | |
| | | | Macro 33 | 228 | 234 | |
| | | | Macro 34 | 235 | 241 | |
| | | | Macro 35 | 242 | 248 | |
| Macro 36 | 249 | 255 | | | | |
| - | 40 | Frame macros speed | Lineary from 0 to 100% | 0 | 255 | 0 |

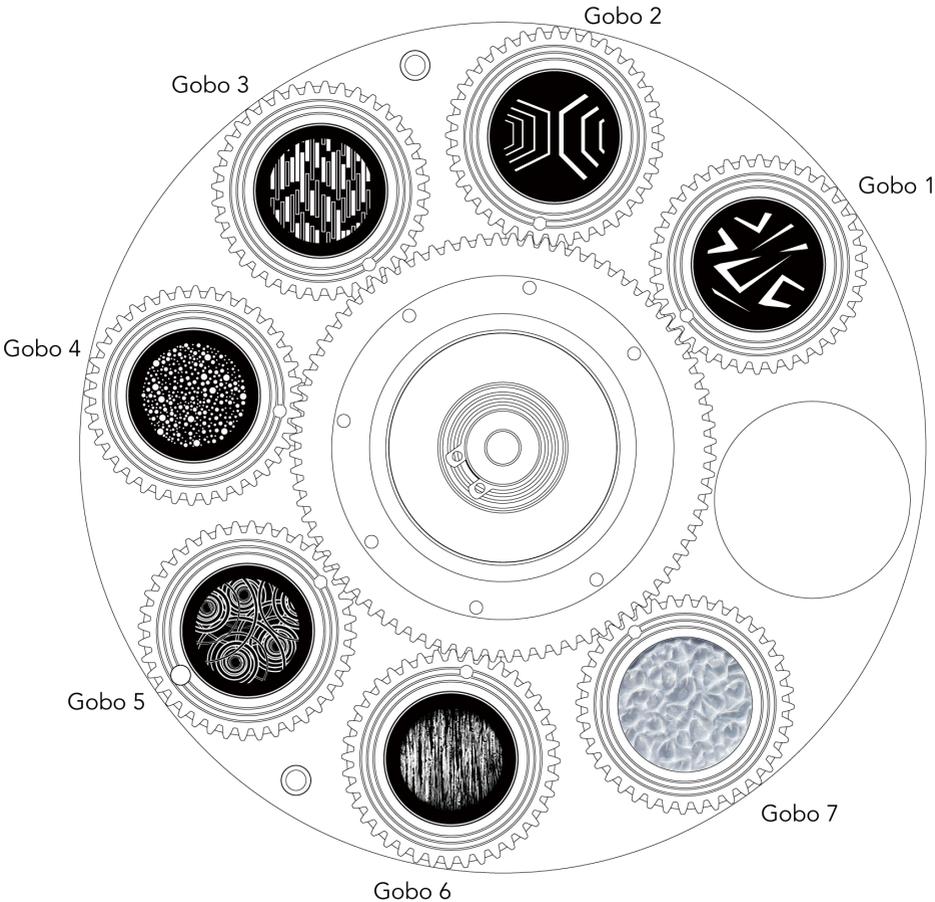
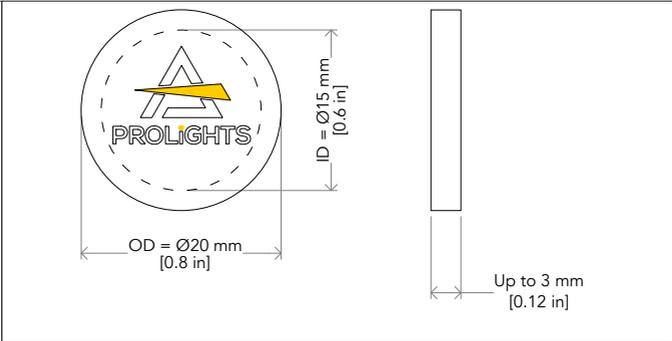
| DMX MODE | | Name | Function | DMX | | Default |
|---------------------------------|-------------------|----------------|-------------------------|------|-----|---------|
| STANDARD 38 ch | EXTENDED 42 ch | | | FROM | TO | |
| 37 | 41 | Focus Tracking | OFF | 8 | 49 | 0 |
| | | | ON - Priority GOBO WHL | 50 | 59 | |
| | | | Reserved | 60 | 69 | |
| | | | ON - Priority BLADES | 70 | 79 | |
| | | | Reserved | 80 | 89 | |
| | | | ON - Priority ANIMATION | 90 | 99 | |
| | | | ON - Priority OPEN | 100 | 109 | |
| | | | Reserved | 110 | 255 | |
| 38 | 42 | Control | No function/safe | 0 | 1 | 0 |
| | | | Pan reverse on | 2 | 3 | |
| | | | Pan reverse off | 4 | 5 | |
| | | | Tilt reverse on | 6 | 7 | |
| | | | Tilt reverse off | 8 | 9 | |
| | | | Pan/tilt mode fast | 10 | 11 | |
| | | | Pan/tilt mode medium | 12 | 13 | |
| | | | Pan/tilt mode slow | 14 | 15 | |
| | | | Reserved | 16 | 35 | |
| | | | Invert blades on | 36 | 37 | |
| | | | Invert blades off | 38 | 39 | |
| | | | Reserved | 40 | 47 | |
| | | | Display on | 48 | 49 | |
| | | | Display 10s | 50 | 51 | |
| | | | Display 20s | 52 | 53 | |
| | | | Display 30s | 54 | 55 | |
| | | | Flip display on | 56 | 57 | |
| | | | Flip display off | 58 | 59 | |
| | | | Flip display auto | 60 | 61 | |
| | | | Key lock on | 62 | 63 | |
| | | | Key lock off | 64 | 65 | |
| | | | Fan mode auto | 66 | 67 | |
| | | | Fan mode silent | 68 | 69 | |
| | | | Fan mode high | 70 | 71 | |
| | | | No signal hold | 72 | 73 | |
| | | | No signal blackout | 74 | 75 | |
| | | | Dimmer curve linear | 76 | 77 | |
| | | | Dimmer curve s-curve | 78 | 79 | |
| Dimmer curve square law | 80 | 81 | | | | |
| Dimmer curve inverse square law | 82 | 83 | | | | |
| Dimmer speed auto | 84 | 85 | | | | |
| Dimmer speed fast | 86 | 87 | | | | |
| Dimmer speed medium | 88 | 89 | | | | |
| Dimmer speed slow | 90 | 91 | | | | |
| Led frequency 600hz | 92 | 93 | | | | |
| Led frequency 1200hz | 94 | 95 | | | | |
| Led frequency 2000hz | 96 | 97 | | | | |

| DMX MODE | | Name | Function | DMX | | Default |
|-------------------|-------------------|---------|--------------------------------------|------|-----|---------|
| STANDARD 38 ch | EXTENDED 42 ch | | | FROM | TO | |
| 38 | 42 | Control | Led frequency 4000hz | 98 | 99 | |
| | | | Led frequency 6000hz | 100 | 101 | |
| | | | Led frequency 25khz | 102 | 103 | |
| | | | Led frequency 50khz | 104 | 105 | |
| | | | Invert zoom off | 106 | 107 | |
| | | | Invert zoom on | 108 | 109 | |
| | | | Reset all | 110 | 111 | |
| | | | Reset pan & tilt | 112 | 117 | |
| | | | Reset colors | 118 | 123 | |
| | | | Reset gobos / animation | 124 | 127 | |
| | | | Reset effects | 128 | 137 | |
| | | | Reset zoom / focus | 138 | 141 | |
| | | | Reserved | 142 | 145 | |
| | | | Reset all blades | 146 | 163 | |
| | | | Reserved | 164 | 251 | |
| | | | Factory default of control functions | 252 | 253 | |
| | | | Reserved | 254 | 255 | |

14 - ROTATING GOBOS WHEEL

Gobo dimensions:

- \varnothing external (OD)= 20,0 mm
- \varnothing of image (ID)= 15,0 mm
- Thickness= up to 3 mm

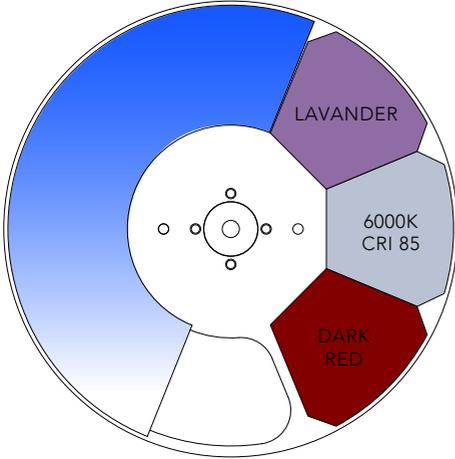


ATTENTION! Load with mirror surface toward the light source.

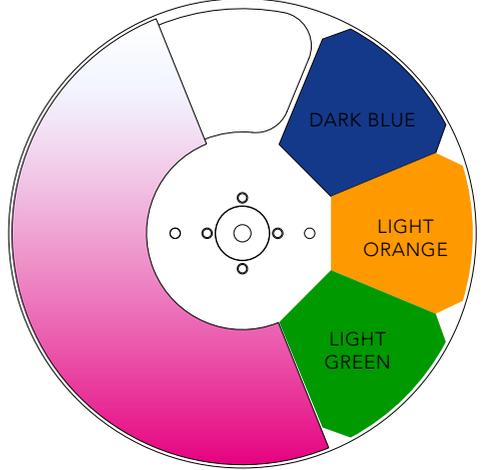
Fig. 14

15 - COLOR WHEEL

CYAN - COLOR WHEEL 1



MAGENTA - COLOR WHEEL 2



YELLOW - COLOR WHEEL 3

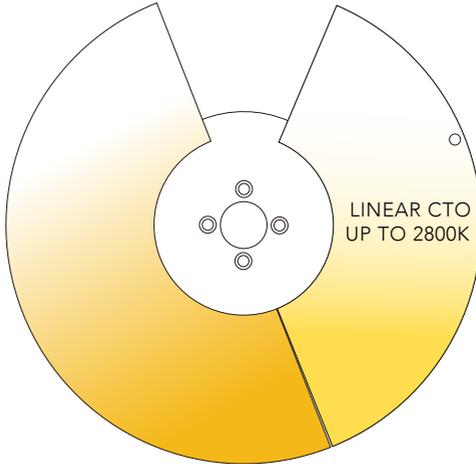


Fig. 15

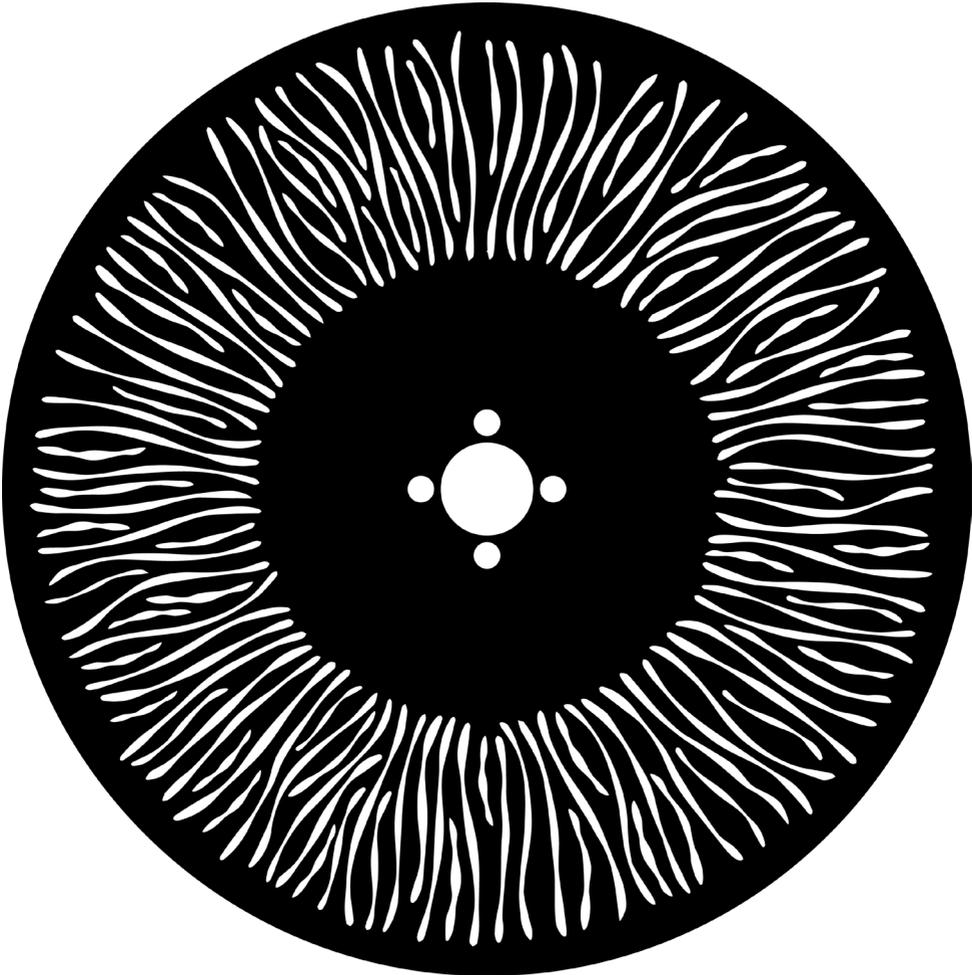


Fig. 16

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 33 you can see the location of the various pcb boards with their respective error colors.

| ERROR SHOWED ON SCREEN | POSSIBLE CAUSES | POSSIBLE PCB WITH ANOMALY |
|----------------------------|--|---------------------------|
| BUS DISPLAY TX FAIL | total CAN-bus isolation of the display board from all the others | 1U |
| FAN1 BASE | speed < 1000 rpm | 1U |
| 2U DIP-SWITCH | Incorrect dip-switch setting | 2U |
| BUS 2U PAN TILT | 2U card not responding | 2U |
| 2U PAN SENSOR | pan sensor/motor failure | 2U |
| | pan driver failure | |
| 2U PAN BLOCKED | pan lock inserted | 2U |
| 2U TILT SENSOR | tilt sensor/motor failure | 2U |
| | tilt driver failure | |
| 2U TILT BLOCKED | tilt lock inserted | 2U |
| 3U DIP-SWITCH | Incorrect dip-switch setting | 3U |
| 3U FAN1 LED | speed < 1000 rpm | 3U |
| 3U FAN2 LED | speed < 1000 rpm | 3U |
| 3U FAN3 LED | speed < 1000 rpm | 3U |
| 3U FAN4 LED | speed < 1000 rpm | 3U |
| BUS 3U FAN+LED | 3U card not responding | 3U |
| 4U DIP-SWITCH | Incorrect dip-switch setting | 4U |
| 4U COLOR 1 | Color wheel 1 (cyan) sensor/motor/driver failure | 4U |
| 4U COLOR 2 | Color wheel 2 (magenta) sensor/motor/driver failure | 4U |
| 4U COLOR 3 | Color wheel 3 (yellow/cto) sensor/motor/driver failure | 4U |
| 4U GOBO WHEEL | Gobo wheel sensor/motor/driver failure | 4U |
| 4U GOBO INDEX | Rotating Gobo Index Sensor/Motor/Driver Fault | 4U |
| 4U ANIMATION | Animation sensor/motor/driver failure | 4U |
| 4U FAN1 EFFECTS | speed < 1000 rpm | 4U |
| BUS 4U GOBO+COLOR | 4U card not responding | 4U |

| ERROR SHOWED ON SCREEN | POSSIBLE CAUSES | POSSIBLE PCB WITH ANOMALY |
|------------------------|--|---------------------------|
| 5U DIP-SWITCH | Incorrect dip-switch setting | 5U |
| 5U FRAME PROFILER | sensor/motor/driver failure profiler group rotation | 5U |
| BUS 5U PROFILER | 5U card not responding | 5U |
| 6U DIP-SWITCH | Incorrect dip-switch setting | 6U |
| 6U ZOOM | zoom sensor/motor/driver failure | 6U |
| 6U FOCUS | focus sensor/motor/driver failure | 6U |
| 6U FROST | frost sensor/motor/driver failure | 6U |
| 6U PRISM 4S | 4-sided prism paddle sensor/motor/driver failure | 6U |
| 6U PRISM 6S | 6-sided prism paddle sensor/motor/driver failure | 6U |
| 6U PRISM 4S INDEX | 4-sided prism rotation sensor/motor/driver failure | 6U |
| 6U PRISM 6S INDEX | 6-sided prism rotation sensor/motor/driver failure | 6U |
| BUS 6U FOCUS+ZOOM | 6U card not responding | 6U |
| NTC LED MODULE | ntc led module fault | - |
| NTC LED DRIVER | ntc fault on led driver board | - |
| FIRMWARE MISMATCH | at least one card has a different fw than the display card | - |

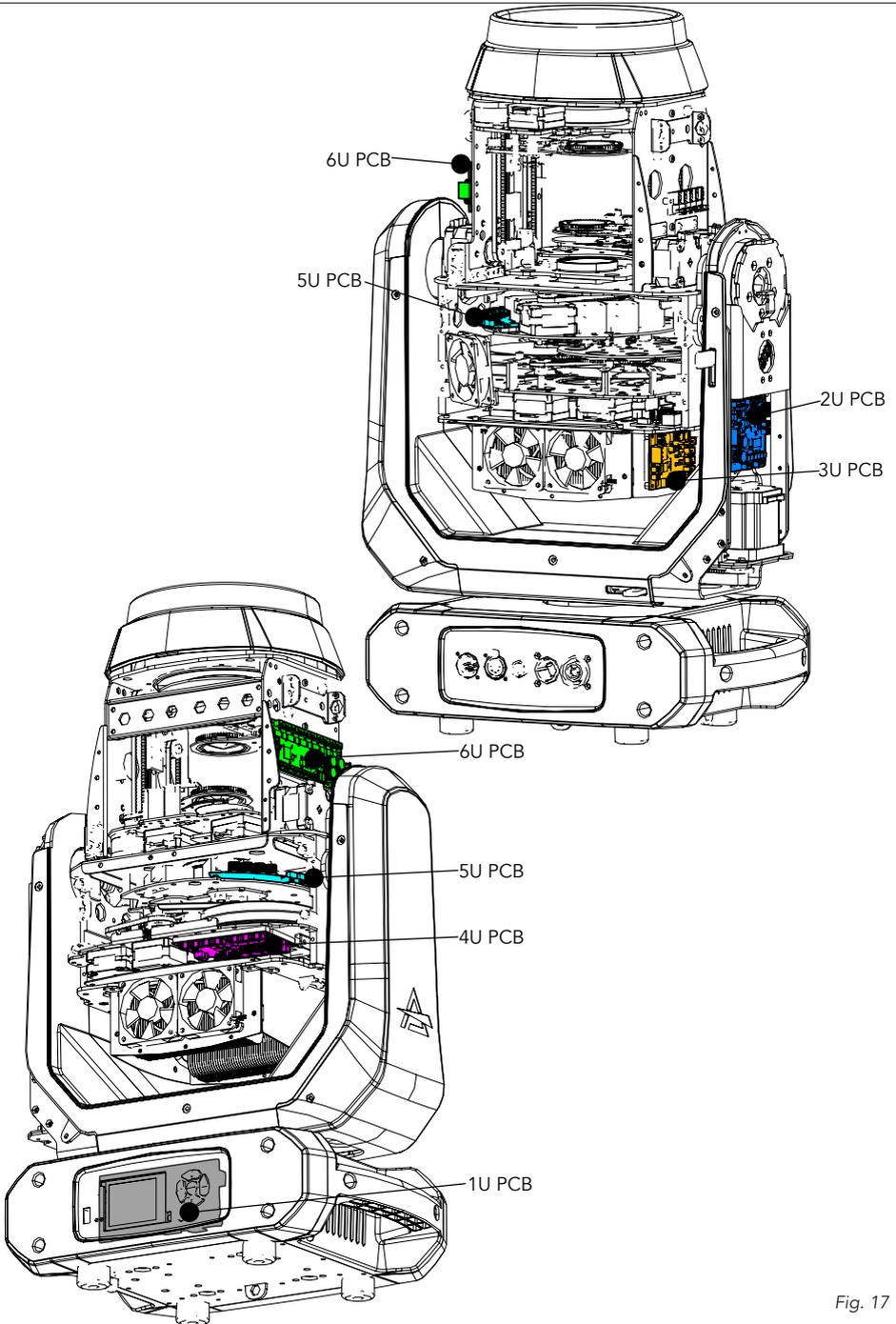
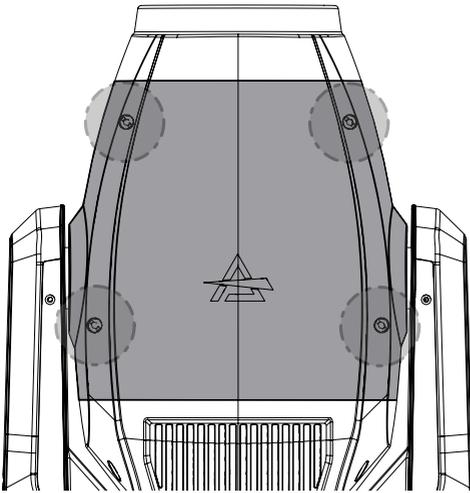


Fig. 17

18 - PERIODICAL CLEANING

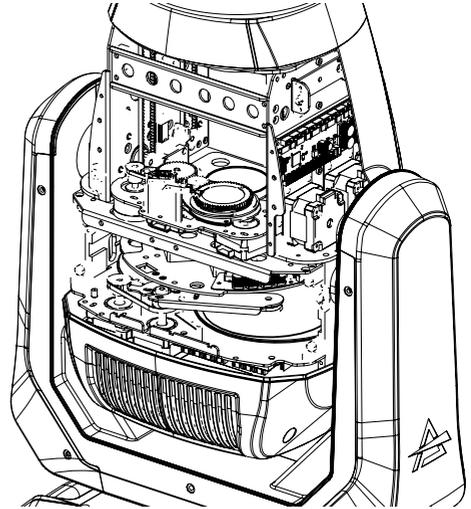
WARNING! Turn OFF power and allow approximately 20 minutes for the fixture to cool down.

1



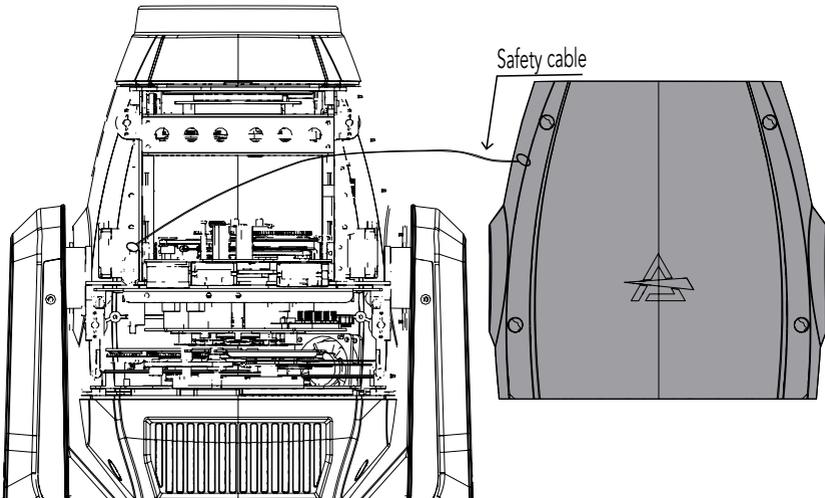
Before removing rear cover, place the head in a horizontal position and engage both the PAN and TILT locks for added stability. See the "PAN AND TILT LOCK" paragraph (pag. 6). Loosen and remove the marked screws and opening the head covers (1) from both sides.

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.

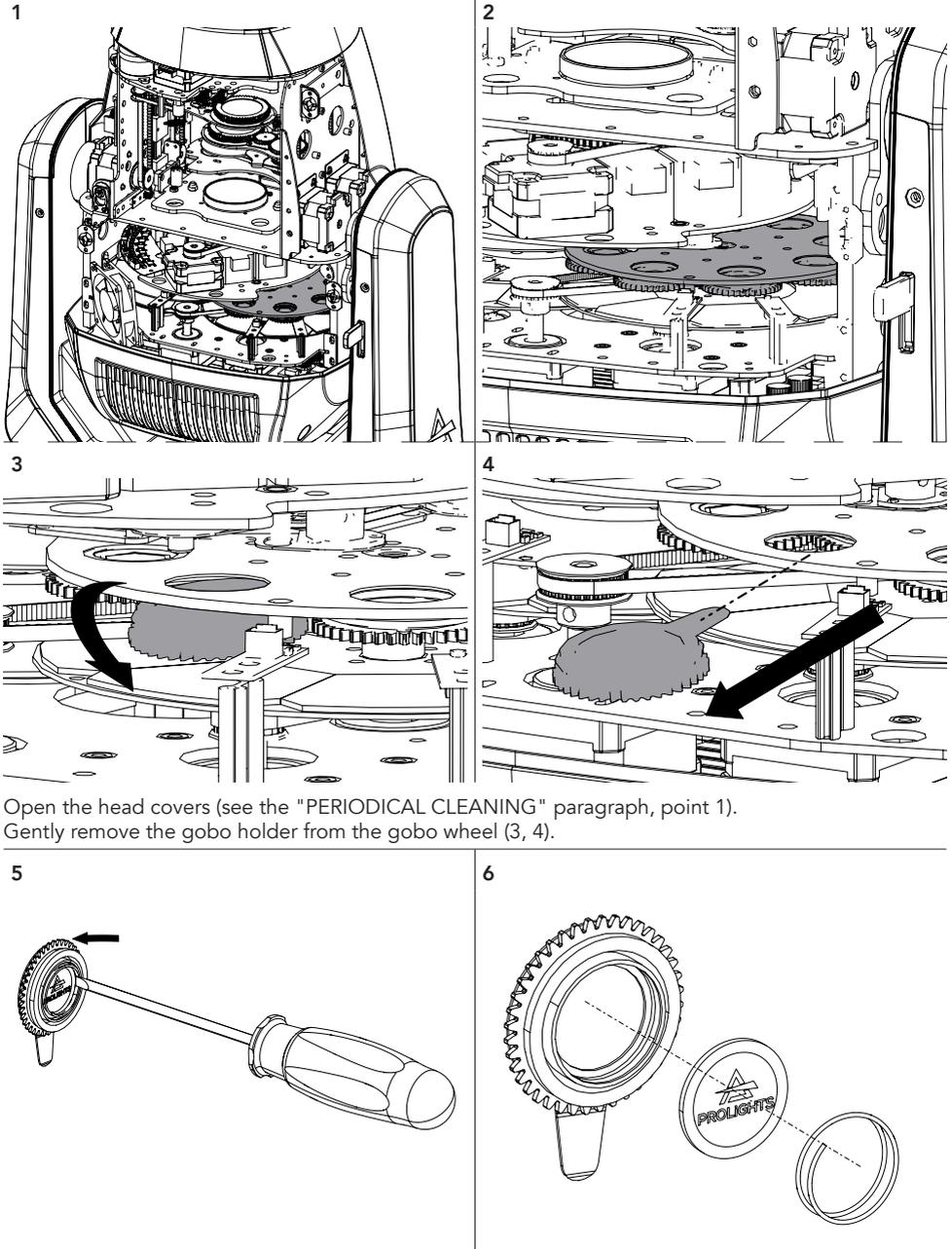
2



Unclip the safety cable on both sides (2).

Fig. 18

19 - GOBOS REPLACEMENT



Open the head covers (see the "PERIODICAL CLEANING" paragraph, point 1). Gently remove the gobo holder from the gobo wheel (3, 4).

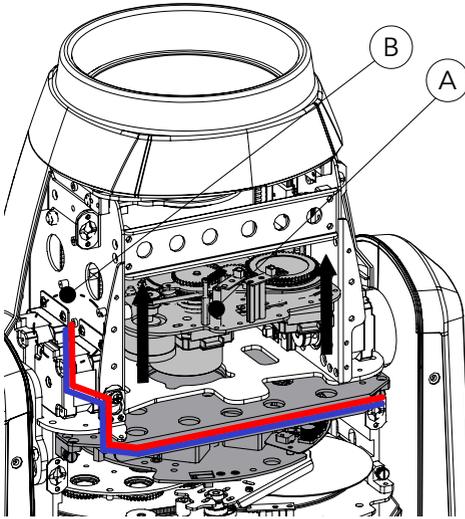
Remove the spring and the gobo (5, 6).

NOTE: the mirrored part of the gobo must be placed in the direction of the LED Source

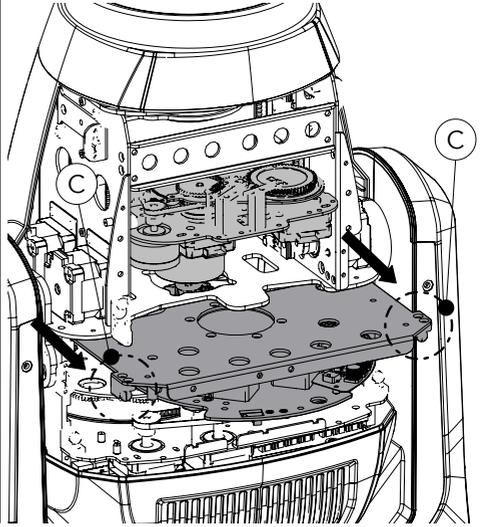
Fig. 19

20 - MODULE REMOVAL (ANIMATION, COLOR, GOBOS WHEEL)

1.1 PROFILE MODULE



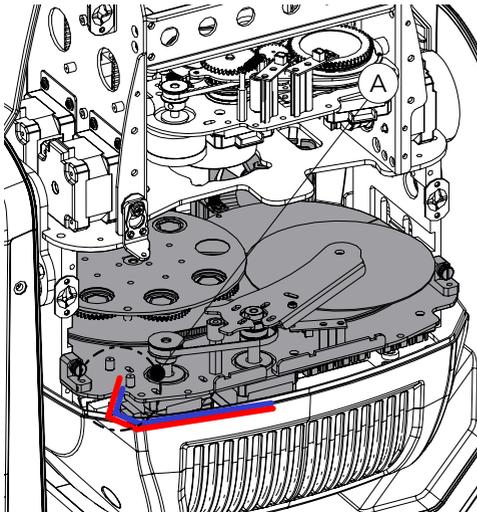
1.2



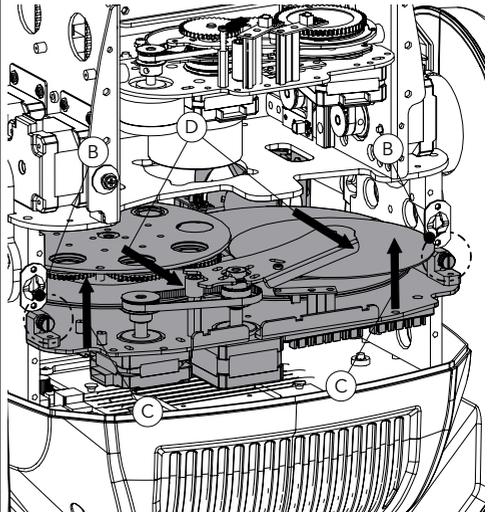
To remove the Profile module, open the head covers (see section "PERIODIC CLEANING") and proceed as follows:

- Raise the zoom and focus plates (marked A in drawing 1.1);
- Disconnect the two connectors, power and serial bus plugs (marked B in drawing 1.1);
- Unscrew the two screws marked in the front view (marked C in drawing 1.2);
- Pull out the plate with Profile module (drawing 1.2);

2.1 GOBOS + ANIMATION + CMY MODULE



2.2



To remove the Gobos + Animation wheel module (The profile module must be already removed):

- Disconnect the two connectors, power and serial bus plugs (marked A in drawing 2.1);
- Unscrew the two screws marked in the front view (marked B in drawing 2.2);
- Remove the plate with gobo wheels raising it up (C) and then pulling out (D) (drawing 2.2). *Fig. 20*

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.

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 (T6.25A 250V).

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.

RESETTING THE MAINTENANCE TIME MESSAGE

When the machine shows the message "MAINTENANCE TIME" it means that the fixture needs an overall check. once you have checked and cleaned the whole machine to reset the message follow the steps below:

- enter the menu, go to INFORMATIONS and press Enter
- go to FIXTURE TIME and press Enter
- finally go to MAINTENANCE TIME and press Enter
- Press enter again and enter the password 050 to reset the message.

| 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 • 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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