Jet Profile300LT

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

USER MANUAL

Rev.01 - Preliminary

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!

- 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_a45°C **Max operating ambient temperature (Ta)**

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

T_a-20°C **Minimum operating ambient temperature (Ta)**

- Do not operate the fixture if the ambient temperature (Ta) is below -20 °C (-4 °F).

Protection from burns and fire

- The exterior of the fixture becomes hot during use. Avoid contact by persons and materials.
- Ensure that there is free and unobstructed airflow around the fixture.
- Keep flammable materials well away from the fixture
- Do not expose the front glass to sunlight or any other strong light source from any angle. Lenses can focus the sun's rays inside the fixture, creating a potential fire hazard.
- Do not attempt to bypass thermostatic switches or fuses.

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_c63,5°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

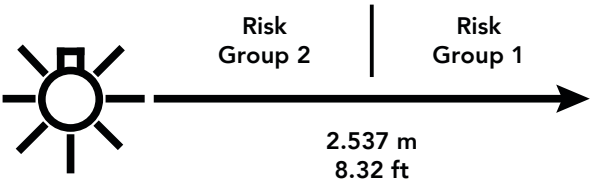
- Warning! Disconnect the fixture from AC mains power and allow to cool for at least 10 minutes before handling.
- Only technicians who are authorized by PROLIGHTS or Authorised service partners are permitted to open the fixture.
- Users may carry out external cleaning, following the warnings and instructions 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).

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

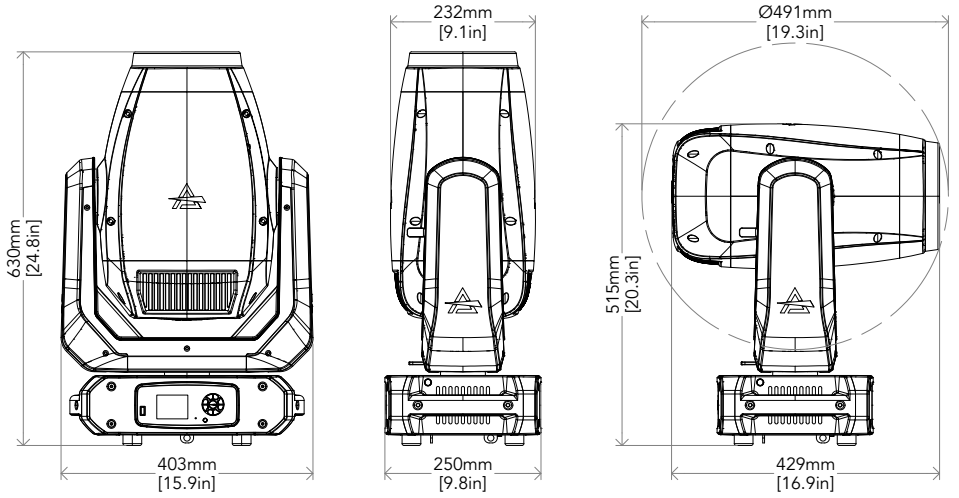
PACKAGE CONTENT

- 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

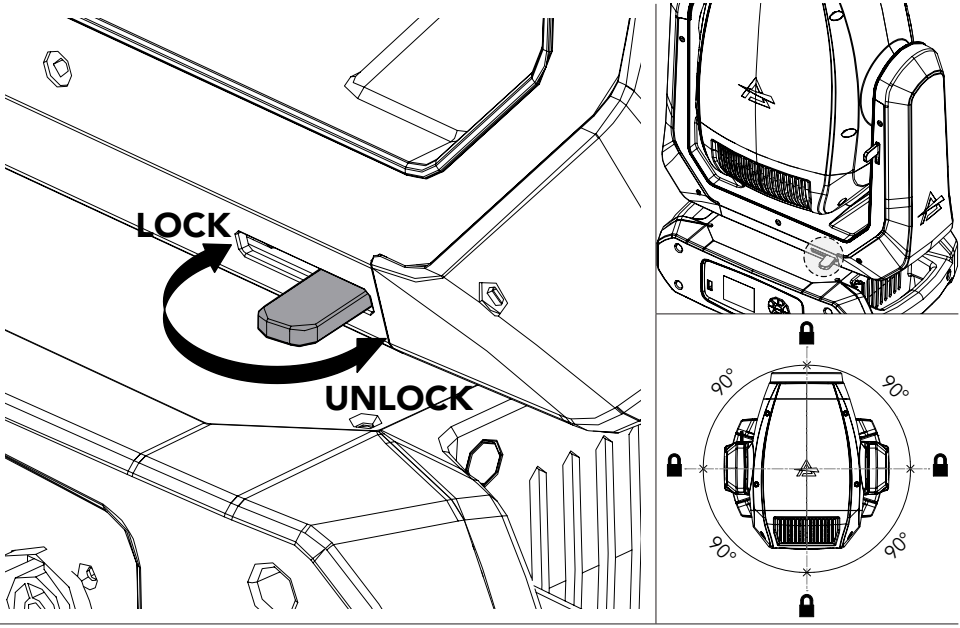


Weight: 21,4 kg - 47,18 lbs

Fig. 01

3 - PAN AND TILT LOCK

PAN Mechanism lock and release



TILT Mechanism lock and release

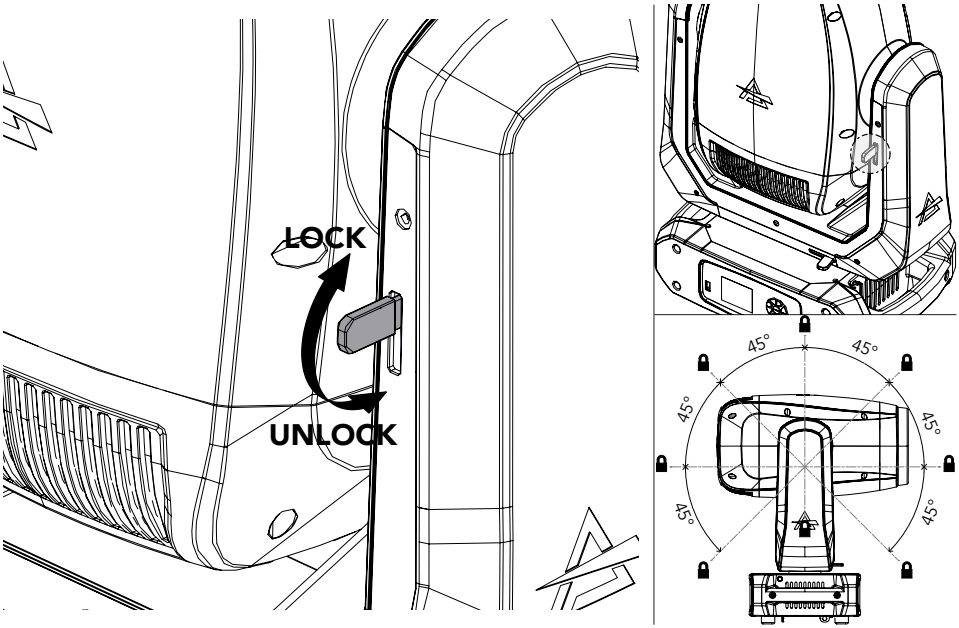


Fig. 02

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.

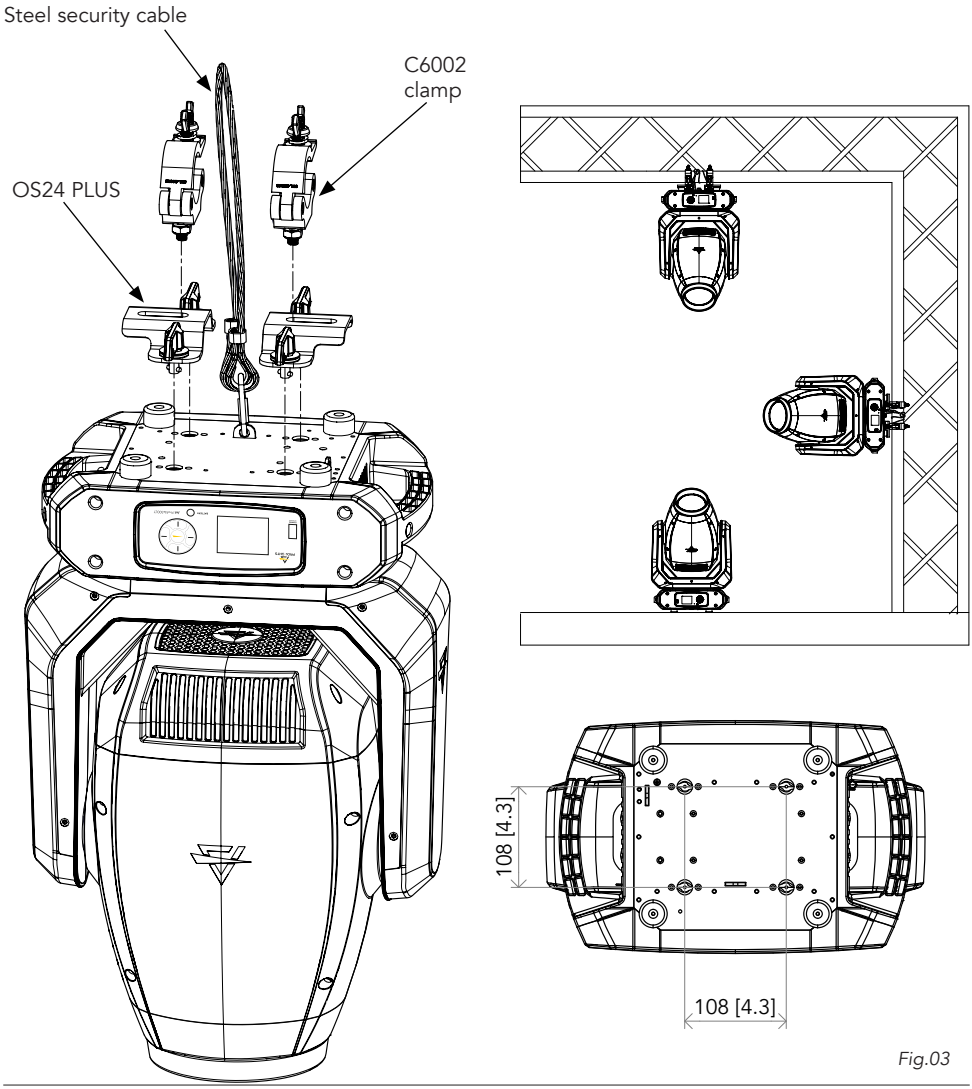


Fig.03

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 absolutes 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.

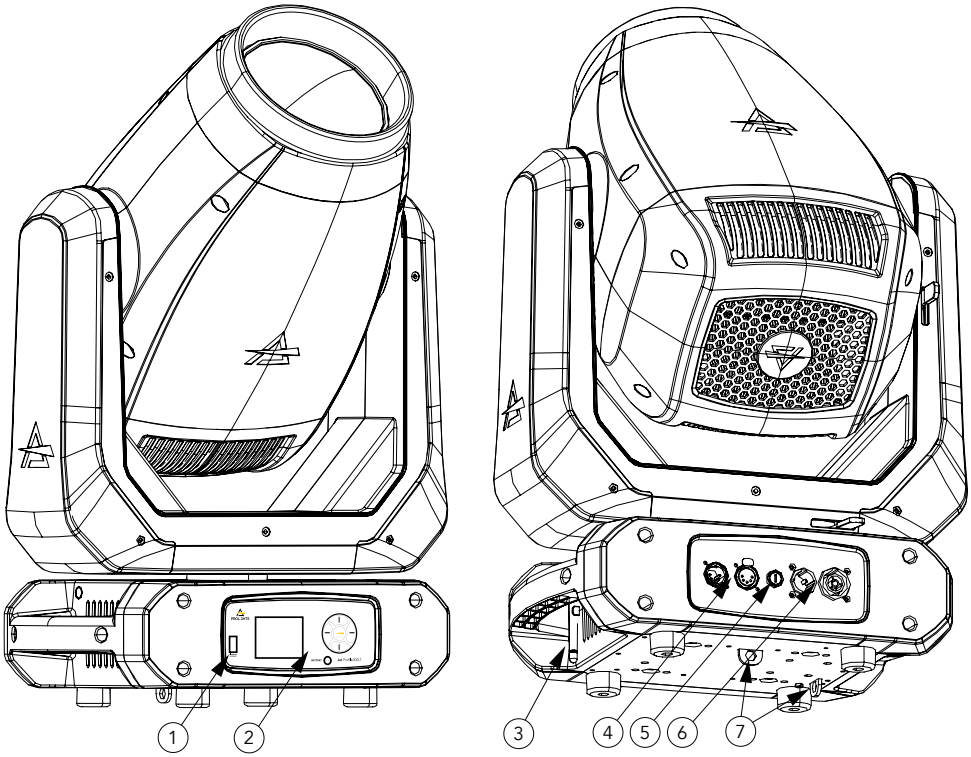


Fig 04

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

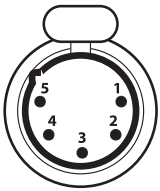


Fig. 05

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:

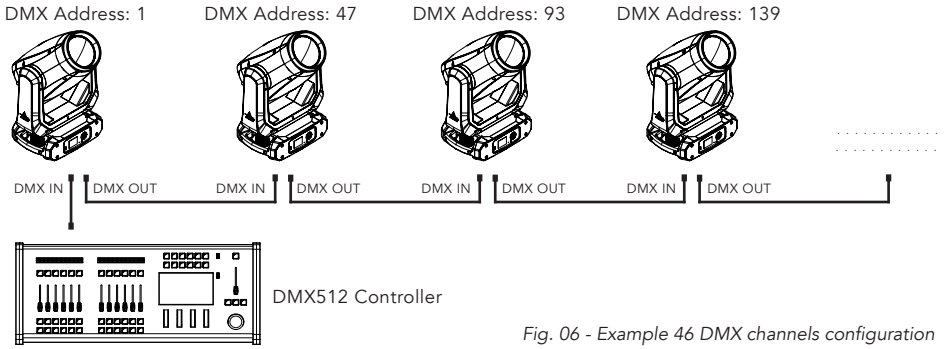
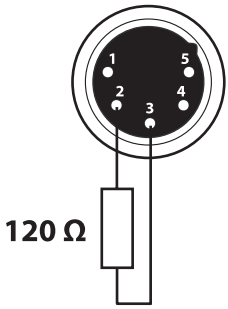
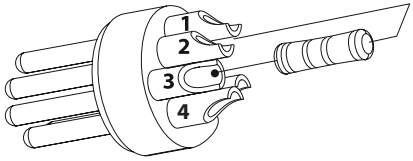


Fig. 06 - Example 46 DMX channels configuration

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.





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 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.

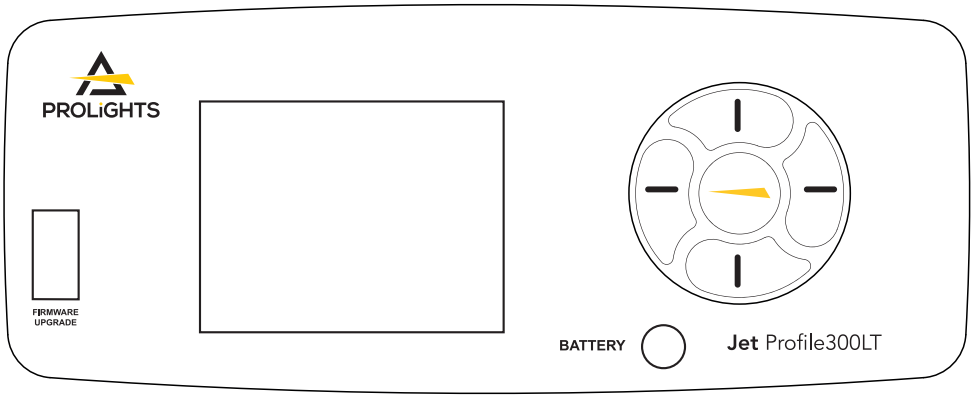
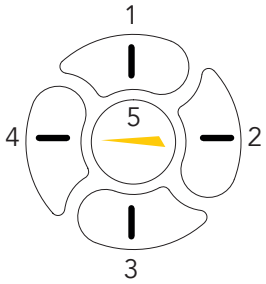


Fig. 08

DISPLAY AND BUTTONS LAYOUT

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



1	• Browse upwards through the menu list and increases the numeric value displayed.
2	• Scroll from left to right when entering numerical values, switching between hundreds, tens and units
3	• Browse downwards through the menu list and decreases the numeric value displayed.
4	• Return to the top level, or scroll from right to left when entering numerical values, switching between units, tens and hundreds
5	• Used to confirm the displayed value, or activate the displayed function or to access the menu tree or to return a previous menu window.
BATTERY	• 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.
FIRMWARE UPGRADE	• 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		
	TEMP. UNIT	**°C**		To set the temperature unit.
		°F		
MOVEMENT	PAN REVERSE	YES		*Allows you to reverse Pan movement.*
		NO		
	TILT REVERSE	YES		*Allows you to reverse Tilt movement.*
		NO		
	PAN/TILT FEEDBACK	**YES**		*To activate / deactivate the reading of the feedbacks given by the encoders.*
		NO		
	MOVEMENT BLACKOUT	YES		*Make fixture goes blackout OFF while moving.*
		NO		
	PAN/TILT MODE	**FAST**		*To choose the horizontal/ vertical movement speed.*
		MEDIUM		
		SLOW		
	HOME POSITION	STANDARD		*To set the home position.*
		CUSTOM		
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		

MENU: SETUP

LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	DESCRIPTION
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		
	INVERT ZOOM	ON		*To invert the zoom behaviour.*
		OFF		
	INVERT BLADES	ON		*To invert the blades behaviour.*
		OFF		
WHEELS	COLOR WHEEL 1 BLACKOUT	ON		
		OFF		
	COLOR WHEEL 2 BLACKOUT	ON		
		OFF		
	COLOR WHEEL 3 BLACKOUT	ON		
		OFF		
	GOBO WHEEL BLACKOUT	ON		
		OFF		
	GOBO WHEEL MODE	**STEP**		
		CONTINUOUS		
TRANSFER SETTINGS	WITHOUT DMX ADDRESS			*Transfer settings from the current fixture to another fixture of the same model using the DMX protocol. If a signal from another source is present, the Transfer Configuration function will not be available.*
	WITH DMX ADDRESS			

MENU: ADVANCED

LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	DESCRIPTION
LED FREQUENCY	600 Hz			*Select PWM frequency. NOTE: Using higher LED Frequency color accuracy may be slightly compromised at low level of dimmer.*
	1200Hz			
	2000 Hz			
	4000 Hz			
	6000 Hz			
	25 kHz			
	50 kHz			
RESET	ALL			*To reset these functions.*
	PAN			
	TILT			
	PAN & TILT			
	COLOR1			
	COLOR2			
	COLOR3			
	ROT GOBO			
	ZOOM			
	FOCUS			

MENU: ADVANCED

LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	DESCRIPTION
RESET	ANIMATION			*To reset these functions.*
	FROST			
	FRAME ROT			
	BLADE 1 POSITON			
	BLADE 1 ROT			
	…			
	BLADE 4 POSITON			
	BLADE 4 ROT			
	OTHERS			
CALIBRATION	PASSWORD			*To calibrate these functions. (Password: 050)*
	PAN			
	TILT			
	DIMMER			
	COLOR 1			
	COLOR 2			
	COLOR 3			
	ROT GOBO			
	PRISM 1			
	PRISM 2			
	PRISM 1 ROT			
	PRISM 2 ROT			
	FROST			
	FOCUS			
	ZOOM			
	ANIMATION			
	ANIMATION ROT			
	ANIMATION FOCUS			
	R GOBO 1 FOCUS			
	…			
	R GOBO 7 FOCUS			
	R GOBO 1 INDEX			
	…			
	R GOBO 7 INDEX			
	CYAN			
	MAGENTA			
	YELLOW			
	FRAME ROT			
	BLADE 1 POSITON			
	BLADE 1 ROT			
	…			
	BLADE 4 POSITON			
	BLADE 4 ROT			

MENU: ADVANCED

LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	DESCRIPTION
MANUAL CONTROL	PAN			*Manual Control of each functionality via display.* *If this function is accessed with a valid DMX signal present, values are taken from last DMX frame received.* *Signal is ignored while fixture stays in this menu.* *Timeout for screen is inhibited. No Auto-leave function.*
	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			
	ANIMATION ROTATION			
	FRAME ROT			
	BLADE 1 POSITON			
	BLADE 1 ROT			
	…			
	BLADE 4 POSITON			
	BLADE 4 ROT			
	CONTROL			
RELOAD DEFAULT	BASIC RELOAD	YES		*Default of all parameters excepted Calibration*
		NO		
	FACTORY RELOAD	YES		*Delete all USER PRESETS stored*
		NO		

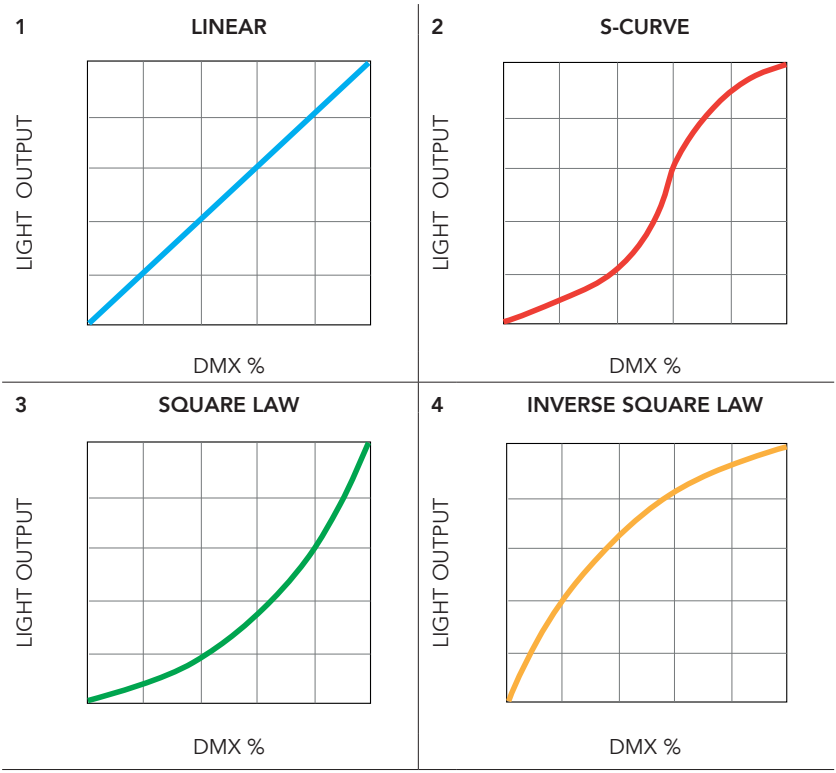
MENU: INFORMATIONS

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. Hours are countered since Power is plugged in. Source Hours is countered based on LED Activity time*
		PARTIAL	<65535H>	
	CURRENT HOURS	TOTAL	<65535H>	
		PARTIAL	<65535H>	
	SOURCE HOURS	TOTAL	<65535H>	
		PARTIAL	<65535H>	
	AC POWER ON CYCLE	TOTAL	<65535H>	
		PARTIAL	<65535H>	
	MAINTENANCE TIME	ELAPSED TIME		
		ALERT PERIOD	10 - 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:

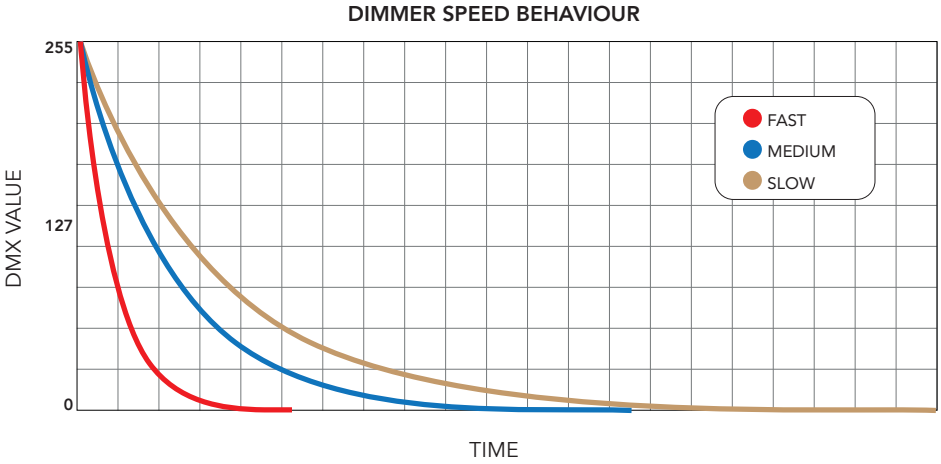
1. **LINEAR** - Light intensity increases proportionally to the DMX value, creating a linear perception.
2. **S-CURVE** - Light intensity is finer at low and high levels, with coarser control at mid-levels.
3. **SQUARE LAW** - Light intensity is finer at low levels and becomes coarser at higher levels.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



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.



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	
	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
Sensors	SENSOR_DEFINITION	0x0200	x	
	SENSOR_VALUE	0x0201	x	x
	RECORD_SENSORS	0x0202		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	

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
HOME_POSITION	0x8160	x	x	0-1	0: Standard **1: Custom**
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 STANDARD

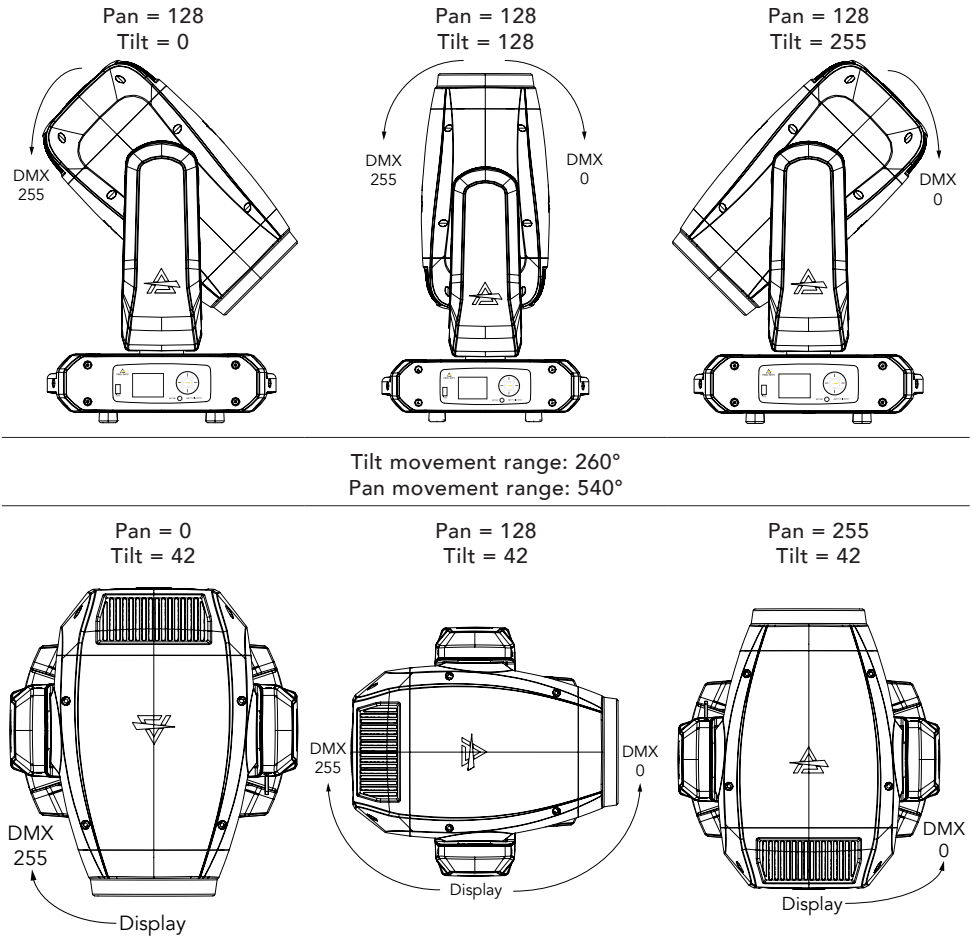
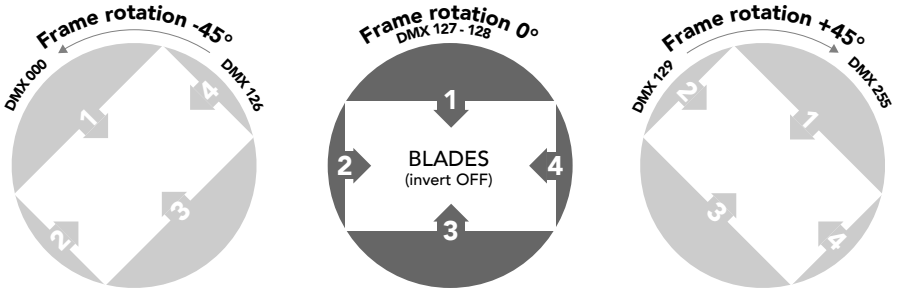
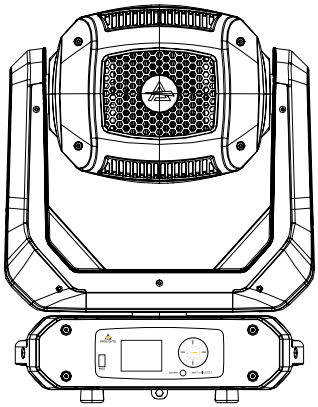


Fig. 09

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

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
STANDARD 38 ch	EXTENDED 42ch	
1	1	Pan
2	2	Pan fine
3	3	Tilt
4	4	Tilt fine
5	5	Dimmer
6	6	Dimmer Fine
7	7	Shutter
8	8	Cyan
9	9	Magenta
10	10	Yellow
11	11	CTO
12	12	Color Wheel 1
-	13	Color Wheel 1 Fine Positioning
13	14	Color Wheel 2
-	15	Color Wheel 2 Fine Positioning
14	16	Rot Gobo Wheel
15	17	Gobo Rot
16	18	Gobo Rot Fine
17	19	Prism 1
18	20	Prism 1 Index/Rot
19	21	Prism 2

DMX MODE		Function
STANDARD 38 ch	EXTENDED 42ch	
20	22	Prism 2 Index/Rot
21	23	Frost
22	24	Zoom
23	25	Zoom Fine
24	26	Focus
25	27	Focus Fine
26	28	Animation Insertion
27	29	Animation Rotation
28	30	Blade 1 position
29	31	Blade 1 swivelling
30	32	Blade 2 position
31	33	Blade 2 swivelling
32	34	Blade 3 position
33	35	Blade 3 swivelling
34	36	Blade 4 position
35	37	Blade 4 swivelling
36	38	Frame rotation
-	39	Frame macros
-	40	Frame macros speed
37	41	Focus Tracking
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	
			Open	0	11	
			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	
14	16	Rot Gobo Wheel	GOBO 5	100	107	0
			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	
			Gobo Indexing			128
			Gobo index 0° - 360°	0	255	
			Gobo Rotation			
15	17	Gobo Rot	No rotation	0	0	
			Forward gobo rotation - Fast to slow	1	127	0
			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
			Prism Indexing	0	255	
			Prism Rotation			
			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
			Prism Indexing	0	255	
			Prism Rotation			
			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	
			No Function	0	3	
			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	
-	39	Frame macros	Macro 18	123	129	0
			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

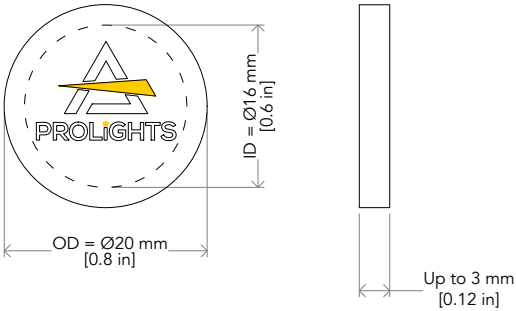
DMX MODE		Name	Function	DMX		Default
STANDARD 38 ch	EXTENDED 42 ch			FROM	TO	
37	41	Focus Tracking	OFF	8	49	0
			ON - Priority GOBO WHL	50	59	
			Reserved	60	69	
			ON - Priority BLADES	70	79	
			Reserved	80	89	
			ON - Priority ANIMATION	90	99	
			ON - Priority OPEN	100	109	
			Reserved	110	255	
38	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	
			Home mode standard	16	17	
			Home mode custom	18	19	
			Movement in blackout on	20	21	
			Movement in blackout off	22	23	
			Color wheel 1 blackout on (index)	24	25	
			Color wheel 1 blackout off (index)	26	27	
			Color wheel 2 blackout on (index)	28	29	
			Color wheel 2 blackout off (index)	30	31	
			Color wheel 3 blackout on (index)	32	33	
			Color wheel 3 blackout off (index)	34	35	
			Invert blades on	36	37	
			Invert blades off	38	39	
			Rotating gobo wheel blackout on (index)	40	41	
			Rotating gobo wheel blackout off (index)	42	43	
			Rotating gobo wheel continuous movement (index)	44	45	
			Rotating gobo wheel step movement (index)	46	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	

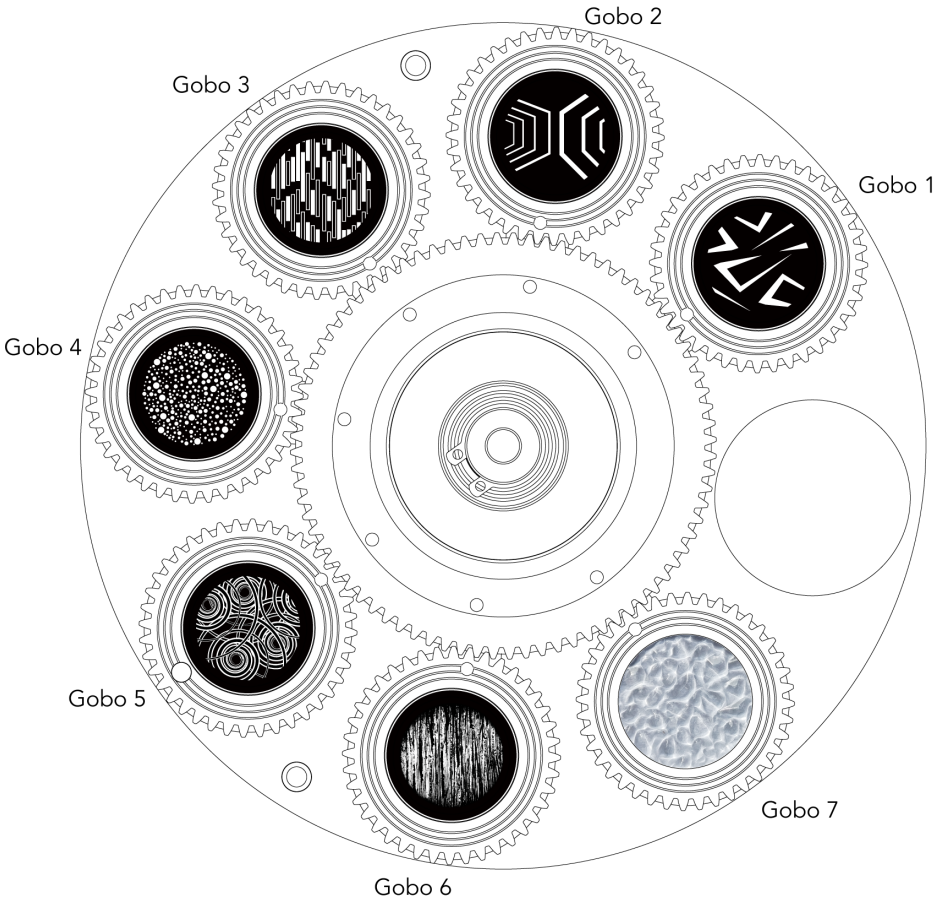
DMX MODE		Name	Function	DMX		Default
STANDARD 38 ch	EXTENDED 42 ch			FROM	TO	
			Dimmer curve linear	76	77	
			Dimmer curve s-curve	78	79	
			Dimmer curve square law	80	81	
			Dimmer curve inverse square law	82	83	
			Dimmer speed auto	84	85	
			Dimmer speed fast	86	87	
			Dimmer speed medium	88	89	
			Dimmer speed slow	90	91	
			Led frequency 600hz	92	93	
			Led frequency 1200hz	94	95	
			Led frequency 2000hz	96	97	
			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	112	113	
			Reset tilt	114	115	
			Reset pan & tilt	116	117	
			Reset color 1 - cyan	118	119	
			Reset color 2 - magenta	120	121	
38	42	Control	Reset yellow + cto	122	123	0
			Reserved	124	125	
			Reset rot gobo	126	127	
			Reset prism 1	128	129	
			Reset prism 1 rotation	130	131	
			Reset prism 2	132	133	
			Reset prism 2 rotation	134	135	
			Reset frost	136	137	
			Reset zoom	138	139	
			Reset focus	140	141	
			Reset animation	142	143	
			Reset animation rotation	144	145	
			Reset blade 1 positon	146	147	
			Reset blade 1 rot	148	149	
			Reset blade 2 positon	150	151	
			Reset blade 2 rot	152	153	
			Reset blade 3 positon	154	155	
			Reset blade 3 rot	156	157	
			Reset blade 4 positon	158	159	
			Reset blade 4 rot	160	161	
			Reset frame rot	162	163	
			Reserved	164	251	
			Factory default of control functions	252	253	
			Reserved	254	255	

14 - ROTATING GOBOS WHEEL

Gobo dimensions:

- Ø external (OD)= 20,0 mm
- Ø of image (ID)= 16,0 mm
- Thinckness= up to 3 mm





ATTENTION! Load with mirror surface toward the light source.

Fig. 10

15 - COLOR WHEEL

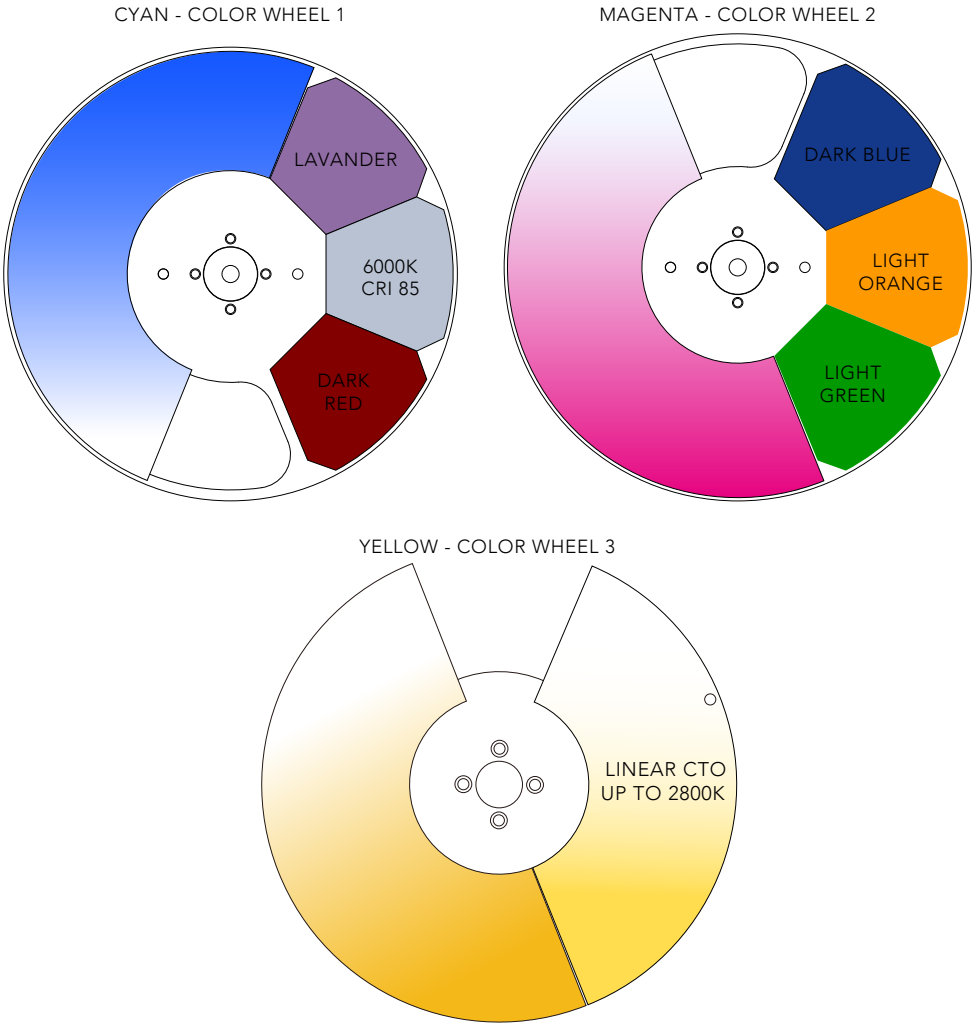


Fig. 12

16 - ANIMATION WHEEL

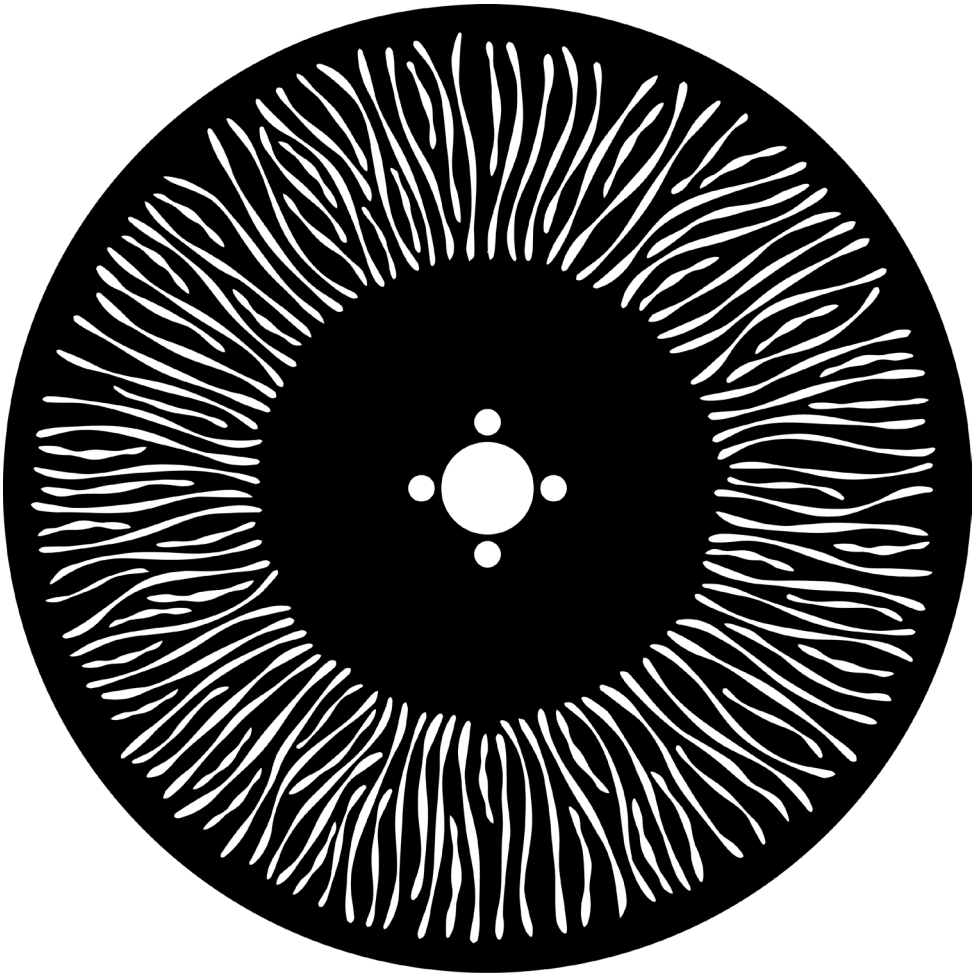


Fig. 13

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	-

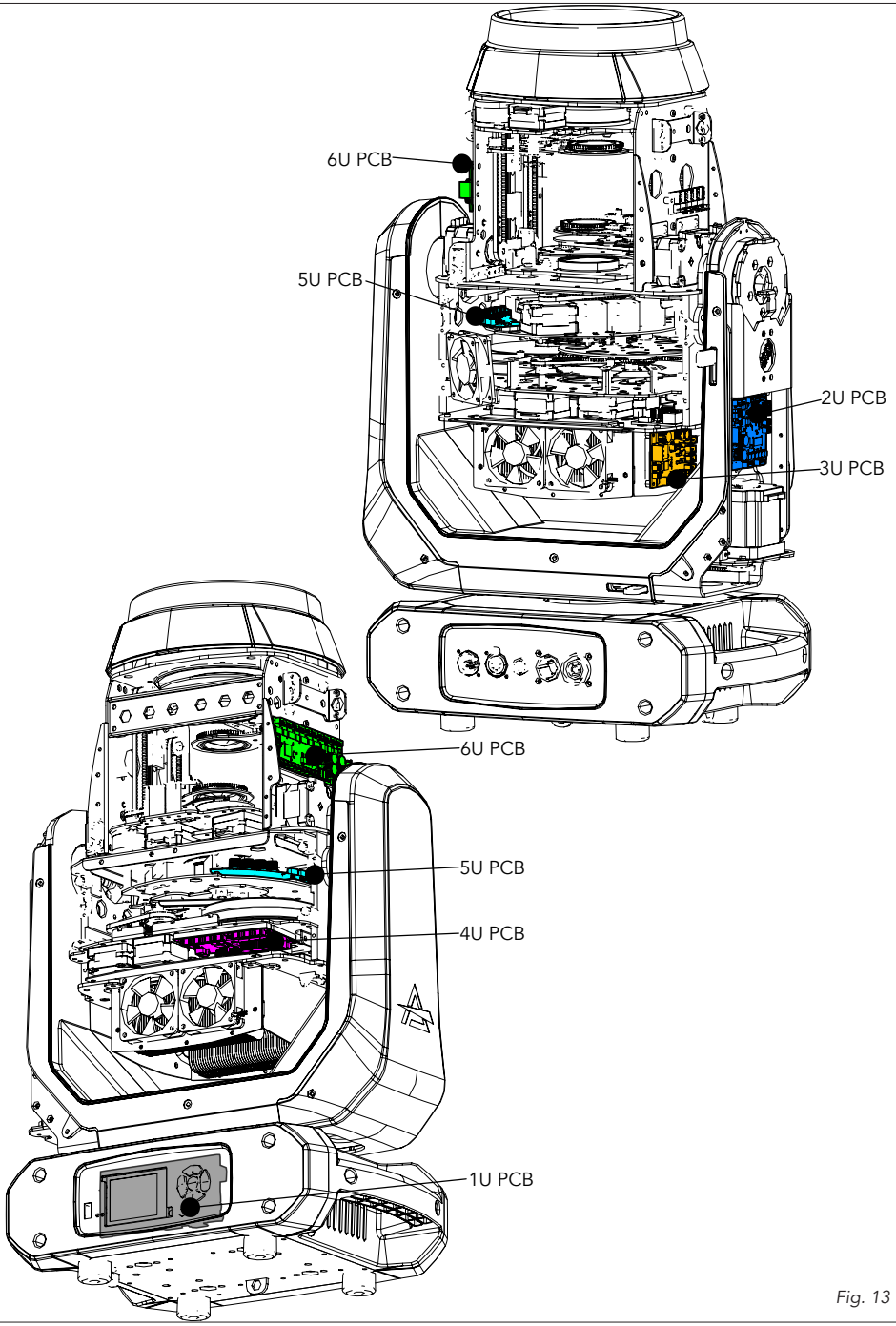
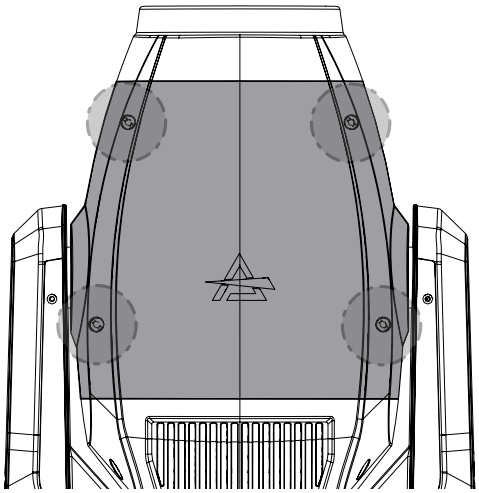


Fig. 13

18 - PERIODICAL CLEANING

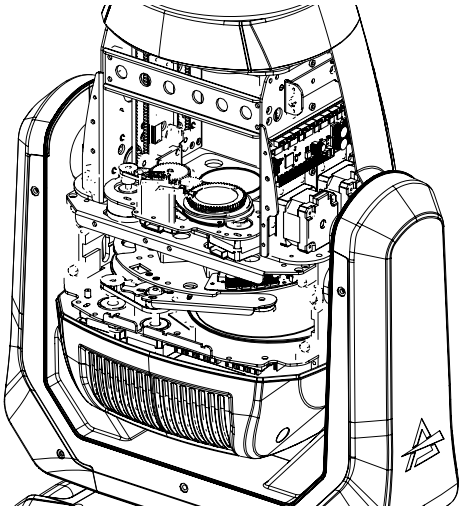
WARNING! Turn OFF power and allow approximately 20 minutes for the fixture to cool down.

1



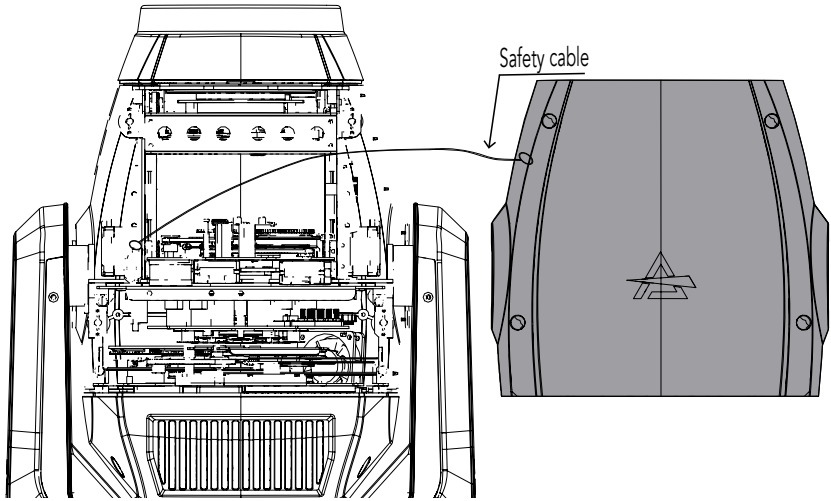
Before removing rear cover, place the head in a horizontal position and engage both the PAN and TILT locks for added stability. See the "PAN AND TILT LOCK" paragraph (pag. 6). Loosen and remove the marked screws and opening the head covers (1) from both sides.

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

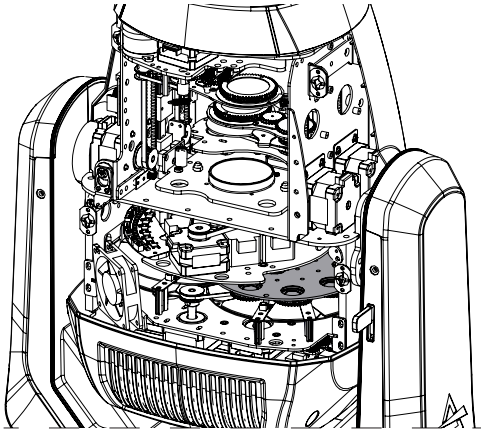


Unclip the safety cable on both sides (2).

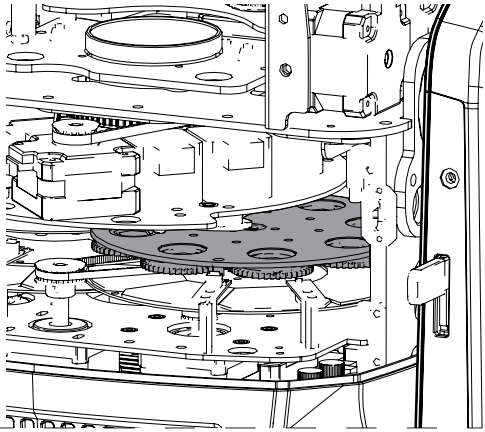
Fig. 14

19 - GOBOS REPLACEMENT

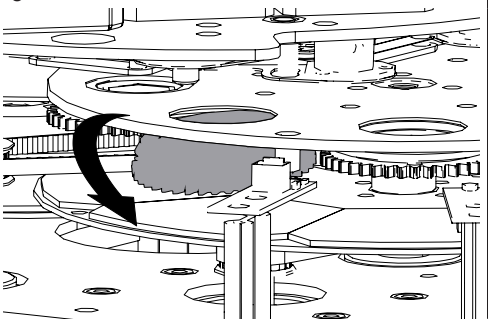
1



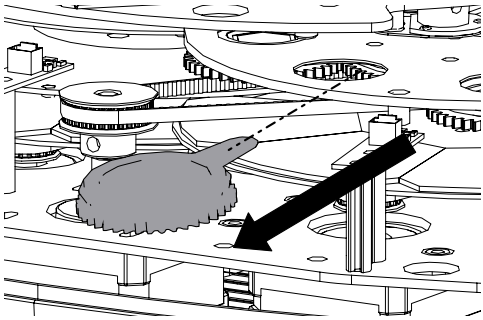
2



3

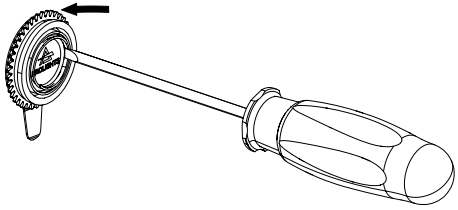


4

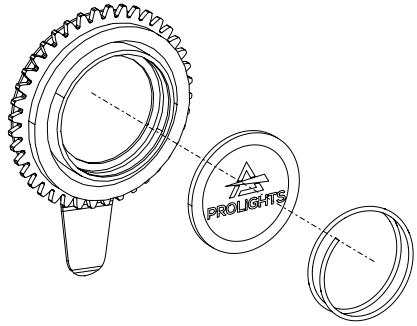


Open the head covers (see the "PERIODICAL CLEANING" paragraph, point 1).
Gently remove the gobo holder from the gobo wheel (3, 4).

5



6

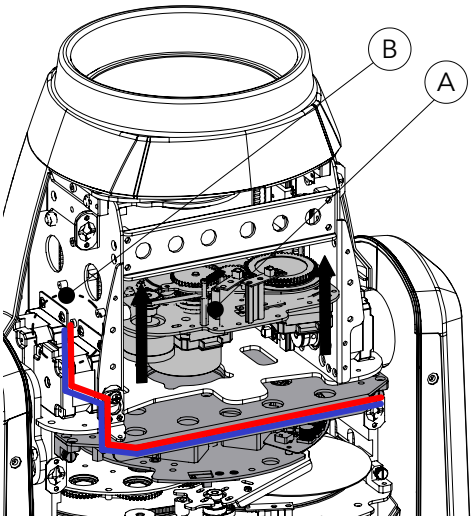


Remove the spring and the gobo (5, 6).
NOTE: *the mirrored part of the gobo must be placed in the direction of the LED Source*

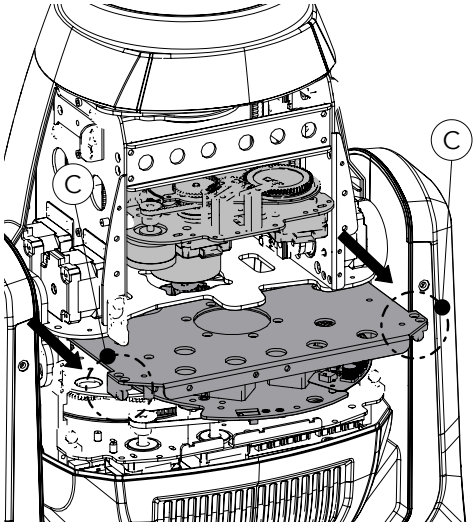
Fig. 15

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

1.1 PROFILE MODULE



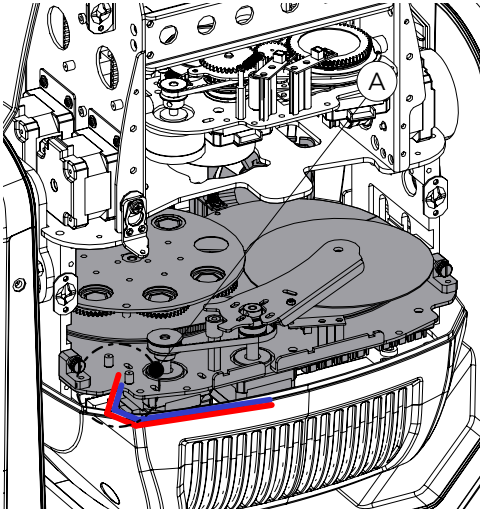
1.2



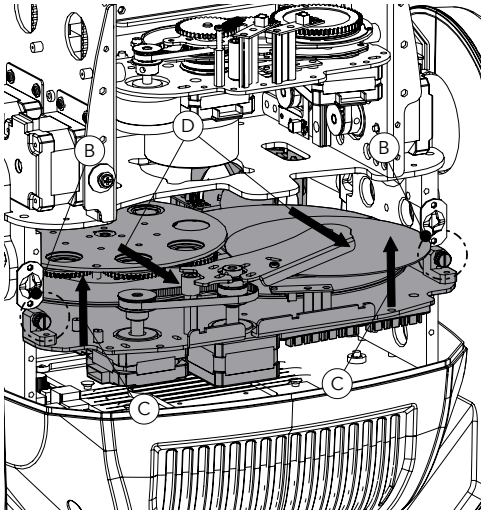
To remove the Profile module, open the head covers (see section "PERIODIC CLEANING") and proceed as follows:

- 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. 16

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 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.

Note

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