



EclPar DotFC

20W RGB+WW LED pinspot,
6° beam angle



USER MANUAL

Thank you for choosing PROLIGHTS

Please note that every PROLIGHTS product has been designed in Italy to meet quality and performance requirements for professionals and designed and manufactured for the use and application as shown in this document.

Any other use, if not expressly indicated, could compromise the good condition/operation of the product and/or be a source of danger.

This product is meant for professional use. Therefore, commercial use of this equipment is subject to the respectively applicable national accident prevention rules and regulations.

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Product user manual can be downloaded from the website www.prolights.it , or can be inquired to the official PROLIGHTS distributors of your territory (https://www.prolights.it/sales_network.html).

Scanning the below **QR Code**, you will access the download area of the product page, where you can find a broad set of always updated technical documentation: specifications, user manual, technical drawings, photometrics, personalities, fixture firmware updates.



**Visit the download area
of the product page**



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SAFETY INFORMATION



WARNING!

- See <https://www.prolights.it/product/ECLPARDOTFC#download> for installation instructions.
- Please read carefully the instruction reported in this section before installing, powering, operating or servicing the product and observe the indications also for its future handling.



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



Connection to mains supply

- The Connection to the mains supply must be carried out by a qualified electrical installer.
- Use only AC supplies 100-240V 50-60 Hz, the fixture must be electrically connected to ground (earth).
- Select the cable cross section in according with the maximum current draw of the product and the possible number of products connected at the same power line.
- The AC mains power distribution circuit must be equipped with magnetic+residual current circuit breaker protection.
- Do not connect it to a dimmer system; doing so may damage the product.
- The product has XLR sockets for DMX input and output.
- Connection of the control signal: DMX LINE.
- Notice: this control circuit is not isolated.
- Cumulative leakage current of less than 3.5mA on the control circuit.



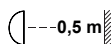
Protection and Warning against electrical shock

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



Installation

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



Minimum distance of illuminated objects

- The projector needs to be positioned so that the objects hit by the beam of light are at least 0.5 meters (1.64 ft) from the lens of the projector.

T_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 -10 °C

Minimum operating ambient temperature (T_a)

- Do not operate the fixture if the ambient temperature (T_a) is below -10 °C (14 °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 70 °C

Temperature of the external surface

- The surface of the fixture can reach up to 70 °C (158 °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.



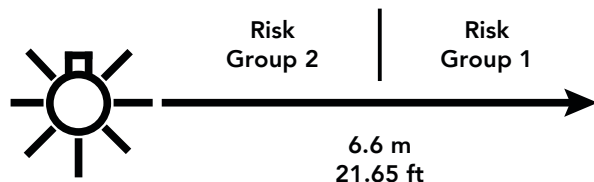
Photobiological safety

- 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 6,6 m (21,65 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

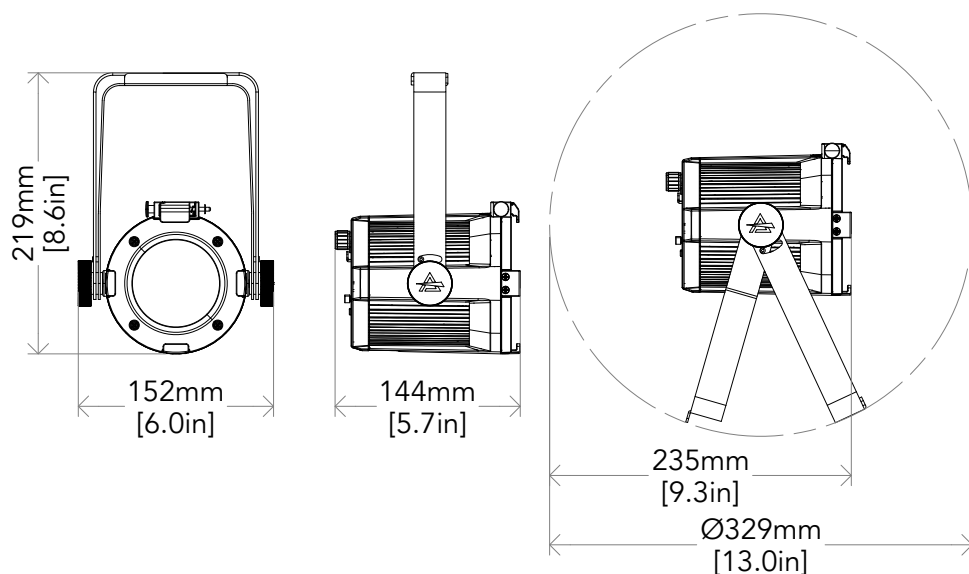
PACKAGE CONTENT

- 1x ECLPARDOTFC;
- 1 x 1,5 meters 3G1,5mmq power cable (BARE END - SEETRONIC IP65 power connector);
- User Manual.

OPTIONAL ACCESSORIES

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

2 - TECHNICAL DRAWING



Weight: 1,2 kg - 2,65 lbs

Fig. 01

3 - INSTALLATION

MOUNTING

Ensure the supporting structure can safely bear the combined weight of all installed fixtures, clamps, cables, auxiliary equipment, etc., and complies with local regulations.

When suspending the fixture above ground level, secure it with a safety wire rated for the fixture's weight, attaching it to an anchor point on the main frame. Do not use removable parts or weak anchors for secondary attachment.

Warning: When clamping the fixture to a truss or other structure at any angle, use half-coupler clamps only. Do not use clamps that do not fully encircle the structure when fastened.

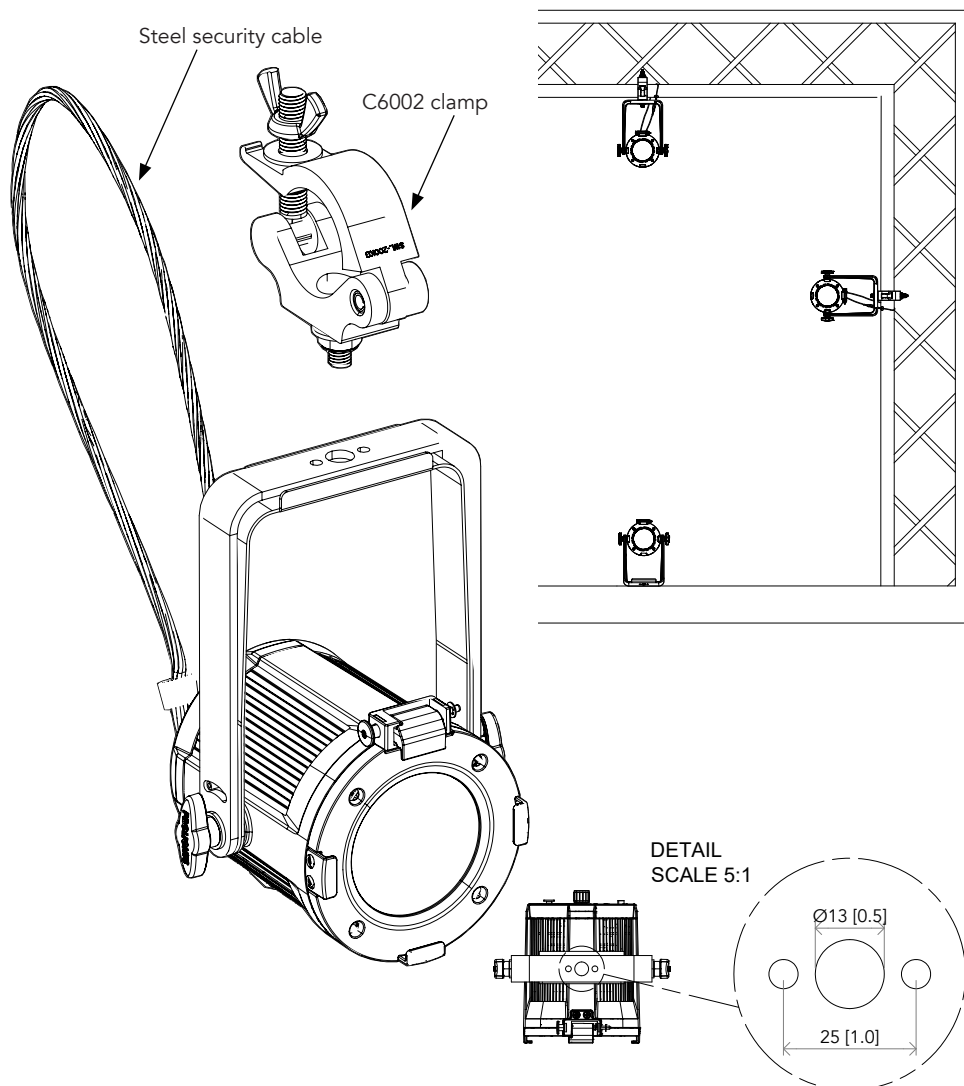


Fig.02

4 - CONNECTION TO THE MAINS SUPPLY

WARNING: For protection from electric shock, the fixture must be earthed!
The product is equipped with auto-switching power supply that automatically adjusts to any 50-60Hz AC power source from 100-240 Volts.
If you need to install a power plug on the power cable to allow connection to power outlets, install a grounding-type (earthed) plug, following the plug manufacturer's instructions. If you have any doubts about proper installation, consult a qualified electrician.
The max power consumption is: 25W.

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

5 - START UP

CONNECT AND DISCONNECT POWER FROM THE PRODUCT

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

6 - PRODUCT OVERVIEW

1. ADJUSTABLE BRACKET for hanging safe.
 2. KNOBS to lock the bracket.
 3. SAFETY HOLE: to attach safety cable.
 4. POWER IN: for connection to the Mains 100-240V~/50-60Hz.
 5. DMX IN (5-p XLR): 1 = GND, 2 = sign-, 3 = sign+, 4 N/C, 5 N/C.
 6. DMX OUT (5-p XLR): 1 = GND, 2 = sign-, 3 = sign+, 4 N/C, 5 N/C.
 7. POWER OUT: for connection to the Mains 100-240V~/50-60Hz.
 8. USER INTERFACE with display and buttons for access to the control panel functions.
 9. TOP CLIP to lock/unlock the accessories.
-

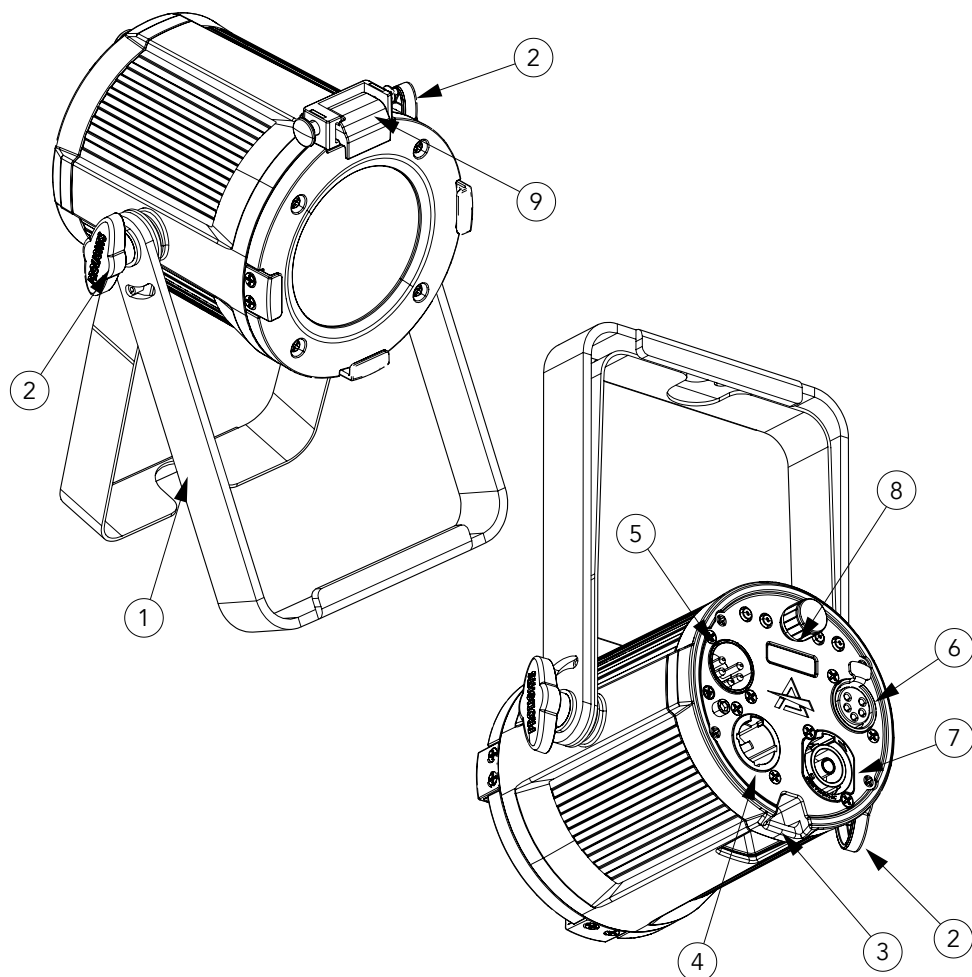


Fig. 03

7 - DMX CONNECTION

CONNECTION OF THE CONTROL SIGNAL: DMX LINE

The product has XLR sockets for DMX input and output.

DMX - INPUT
XLR plug



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

DMX - OUTPUT
XLR socket

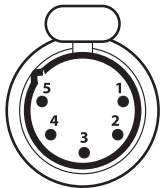


Fig. 04

The default pin-out on both socket is as the following diagram:

INSTRUCTIONS FOR A RELIABLE DMX CONNECTION

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

CONNECTION DAISY CHAIN

Connect the DMX data output from the DMX source to the product's DMX input (male XLR connector). Run the data link from the product's DMX output (female XLR connector) to the DMX input of the next fixture.

Terminate the data link by connecting a 120 Ω termination resistor. If using a splitter, terminate each branch of the link. Install a DMX termination plug on the last fixture in the link.

CONNECTION OF THE DMX LINE

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

The following diagram shows the connection mode:

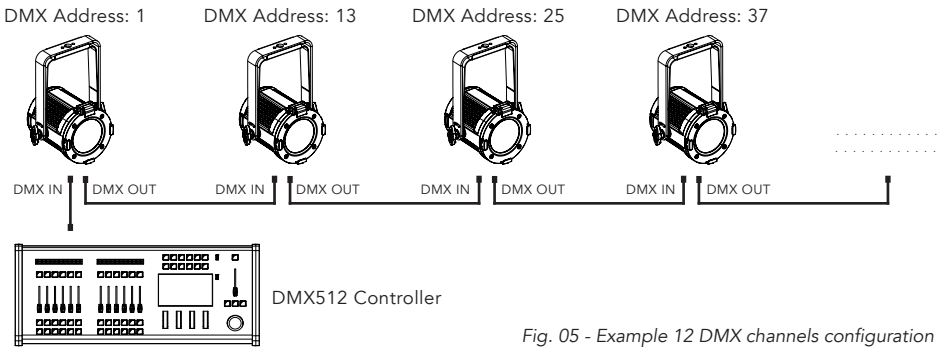


Fig. 05 - Example 12 DMX channels configuration

CONSTRUCTION OF THE DMX TERMINATION

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

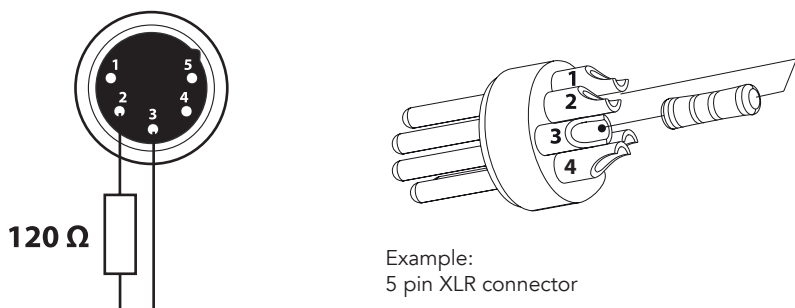


Fig. 06

DMX ADDRESSING

To start controlling the product via DMX, the first step is to select a DMX address, also known as the start channel. This is the first channel used to receive instructions from a DMX controller. To control multiple fixtures individually, assign a unique starting address to each fixture.

The number of channels used by the fixture depends on the selected DMX mode, so always check the DMX Mode in the MENU before setting the address.

If two fixtures are assigned the same address, they will behave identically. Assigning the same address to multiple fixtures can be helpful for diagnostic purposes and symmetrical control.

DMX addressing is limited to ensure there are enough control channels available for the fixture.

To set the fixture's DMX address:

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

8 - CONTROL PANEL

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

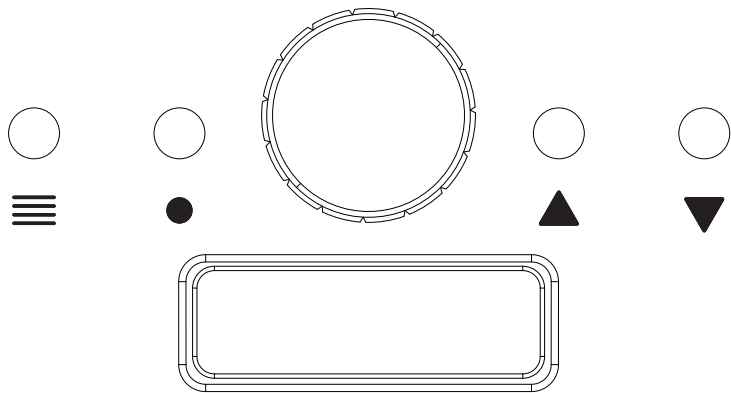


Fig. 07

DISPLAY AND BUTTONS LAYOUT

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

	MENU - Used to access the menu tree and to return to the upper level. Hold to go back to the home screen.
	UP - Browse upwards through the menu list and increases the numeric value displayed.
	DOWN - Browse downwards through the menu list and decreases the numeric value displayed.
	ENTER - Used to confirm the displayed value, or activate the displayed function.
	PUSH-ENCODER - Used for standalone purposes.

SHORTCUT

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

9 - MENU STRUCTURE

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

MENU: CONNECT					
LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	DESCRIPTION
DMX ADDRESS	1-512				Set DMX Address
DMX MODE	UNO DUO	FIXED COLORS	R		Set DMX Mode
			G		
			B		
			W		
			RG		
			RB		
			RW		
			GB		
			GW		
			BW		
			RGB		
			RGW		
			RBW		
			GBW		
			RGBW		
		COLOR MACRO	"Color Macro" on page 24		
		WHITE PRESETS	2700K		
			2800K		
			3200K		
			3500K		
			4000K		
			4500K		
			5000K		
			5600K		
			6000K		
			6500K		
			7000K		
			8000K		
			9000K		
			10000K		
		MANUAL COLORS	RED		
			GREEN		
			BLUE		
			WARM WHITE		

MENU: CONNECT

LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	DESCRIPTION
DMX MODE	5CH				Set DMX Mode
	6CH				
	9CH				
	12CH				
	13CH				

MENU: SETUP

LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	DESCRIPTION
SCREEN	BACKLIGHT	ON			Select the timing after that display will switch automatically off when unactive.
		10S			
		20S			
		30S			
	FLIP DISPLAY	ON			Allows you to rotate the display by 180°
		OFF			
	KEY LOCK	ON			Lock the buttons on the control panel by a password. Press following combinations (password) in order to access to the user menu : UP, DOWN, UP, DOWN, ENTER
		OFF			
	TEMPERATURE UNIT	°C			Choose Temperature unit.
		°F			
TRANSFER CONFIG	WITHOUT DMX ADDRESS				Transfer settings from current fixture to other fixture of the same model using DMX Protocol. If there is signal coming from other source Transfer Configuration it's not available.
	WITH DMX ADDRESS				

MENU: ADVANCED

LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	DESCRIPTION
SPEKTRA CALIBRATION	ON				<i>"SPEKTRA CALIBRATION" on page 18</i>
	PURE COLORS				
	OFF				
DIMMER CURVE	LINEAR				<i>"DIMMER CURVES" on page 19</i>
	S-CURVE				
	SQUARE LAW				
	INVERSE SQUARE LAW				
DIMMER SPEED	AUTO				<i>"DIMMER SPEEDS" on page 20</i>
	FAST				
	MEDIUM				
	SLOW				
	OFF				
LED FREQUENCY	1000HZ				<i>Select PWM frequency. NOTE: Using higher LED Frequency color accuracy may be slightly compromised at low level of dimmer.</i>
	2000HZ				
	4000HZ				
	6000HZ				
	25KHZ				
DMX FAULT	HOLD				<i>Select behaviour in case of Signal fault.</i>
	BLACKOUT				
	STAND ALONE				
WHITE POINT	3200K				<i>Defines CCT reached when RGBW @ Full</i>
	4000K				
	5600K				
	6000K				
	8000K				
LED MODE	HIGH QUALITY				<i>"LED MODE" on page 18</i>
	HIGH BRIGHTNESS				
TUNGSTEN EMULATION	ON				<i>Toggle Tungsten Emulation.</i>
	OFF				
FACTORY RELOAD	ON				<i>Factory Reload to bring back all default values and settings.</i>
	OFF				

MENU: INFORMATIONS

LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	DESCRIPTION
DEVICE TIME	FIXTURE HOURS	<99999H>			View informations about product operating lifetime. Fixture Hours is countered based on general operation time. Hours are countered since Power is plugged in. Source Hours is countered based on LED Activity time.
	CURRENT HOURS	<99999H>			
	SOURCE HOURS	<99999H>			
	AC POWER ON CYCLE	<99999H>			
	MAINTENANCE TIME	ELAPSED TIME			
ALERT PERIOD		10 - 1000			
POWER CONS.	** W				Show estimated power consumption.
TEMPERATURE	NEAR SOURCE TEMP, DRIVER PCB TEMP, LED PCB TEMP,...				Show all NTC temperatures.
CHANNEL VALUE					Show all Channel values as a list, value shown depends on DMX Mode
ERROR MESSAGE					Show error message
FIXTURE MODEL	< - >				Show RDM fixture model
DEVICE LABEL	<RDM LABEL>				Show RDM Label.
SOFTWARE VERSION	" <V1.0> "				Show firmware version of the fixture
CRMX MODULE VERSION	TimoFX: Vx.x.xx				Show firmware version of TimoFX module.
RDM UID	15D00228****				Show RDM UID of the fixture.

MENU: STAND ALONE

LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	DESCRIPTION
MASTER/SLAVE	MASTER DMX				Allow you to link and operating in synk multiple units without a DMX console. Choose a unit to perform as the Master. Master No DMX: fixture is not broadcasting signal.
	MASTER NO DMX				
	SLAVE				
EFFECTS	EFFECT 1 to 5	DIMMER	0-255	SPEED: 1-100	Effects modes allows creation and editing of 5 effects maximum.
		STROBE	0-255		
		COLOR 1			
		COLOR 2			
		COLOR 3			
		COLOR 4			
		COLOR 5			
STATIC	FIXED COLORS	R	DIMMER 000 - 255		
		G			
		B			
		W			
		RG			
		RB			
		RW			
		GB			
		GW			
		BW			
		RGB			
		RGW			
		RBW			
		GBW			
		RGBW			
	WHITE PRESETS	2700K	DIMMER: 000 - 255 TINT: -025 - 025		
		2800K			
		3200K			
		3500K			
		4000K			
		4500K			
		5000K			
		5600K			
6000K					
6500K					
7000K					
8000K					
9000K					
10000K					
COLOR MACRO		DIMMER 000 - 255	"Color Macro" on page 24		
MANUAL COLORS	RED	000 - 255			
	GREEN	000 - 255			
	BLUE	000 - 255			
	WARM WHITE	000 - 255			

ENCODER BEHAVIOUR WHEN DMX FAULT@STAND ALONE

STAND ALONE MODE	ONE TIME PRESS	MOVE ENCODER	DOUBLE PRESS	HOLD for 3 sec
EFFECT	Switch between: DIMMER STROBE EFFECTS SPEED	Change the Dimmer value / Strobe value / switch from Effect 1, Effect 2, Effect 3, Effect 4, Effect 5 / Speed value	HIGHLIGHT / LEAVE HIGHLIGHT	Encoder Lock / Encoder Unlock
FIXED COLOR	Switch between: DIMMER FIXED COLOR	Change the Dimmer value / change the FIXED COLORS	HIGHLIGHT / LEAVE HIGHLIGHT	Encoder Lock / Encoder Unlock
WHITE PRESETS	Switch between: DIMMER WHITE PRESET HUE	Change the Dimmer value / change the White Presets	HIGHLIGHT / LEAVE HIGHLIGHT	Encoder Lock / Encoder Unlock
COLOR MACRO	Switch between: DIMMER COLOR MACRO	Change the Dimmer value / change the Color Macro	HIGHLIGHT / LEAVE HIGHLIGHT	Encoder Lock / Encoder Unlock
MANUAL	Switch between: DIMMER RED GREEN BLUE WHITE	Change the Dimmer value / change the Red- Green-Blue-White value	HIGHLIGHT / LEAVE HIGHLIGHT	Encoder Lock / Encoder Unlock

MASTER/SLAVE

The MASTER/SLAVE function enables the fixture to operate in standalone mode, where it must be set to MASTER. When configured correctly, this allows one fixture to control multiple fixtures in a daisy chain setup, ensuring synchronized operation. Below are the available modes:

- **MASTER DMX** - The fixture operates as the master, with standalone mode active, and transmits the same standalone functionality via DMX to other fixtures in the daisy chain.
- **MASTER NO DMX** - The device works as master but does not transmit the DMX signal to the other devices connected in the daisy chain.
- **SLAVE** - The fixture remains in standby, waiting to receive a signal from another device set to MASTER DMX. If a standalone mode is selected on the fixture, it will automatically switch to MASTER NO DMX.saved presets or factory settings.

SPEKTRA CALIBRATION & LED MODE

These functions work together to define how the fixture manages color rendering, white calibration, and light output. While Spektra Calibration ensures consistency across fixtures, the LED Mode determines the base performance of the LED engine in terms of color quality (CRI and R9) or brightness.

SPEKTRA CALIBRATION

Manages how CCT (Correlated Color Temperature) and colors are calibrated across fixtures, using a shared color space.

- **ON** - Full calibration of whites and colors. Ensures maximum consistency between units. Slightly reduces color saturation for uniform results.
- **PURE COLORS** - Whites remain calibrated, but colors are shown in their native space for maximum saturation. Ideal for creative use.
- **OFF** - No calibration applied (RAW mode). Maximizes output and vividness, but consistency and CRI may vary.

LED MODE

Affects the internal LED drive behavior and directly influences Spektra's performance.

- **HIGH QUALITY** – Reduces output to enhance CRI and R9 response. Best used when color accuracy is critical (e.g., broadcast, theatre). Enhances Spektra calibration precision.
- **HIGH BRIGHTNESS** – Maximizes light output. Suitable for applications where brightness is the priority. May slightly reduce the effectiveness of Spektra calibration in terms of color fidelity.

Spektra Calibration will adapt based on the selected LED Mode. For best results, match the mode to the needs of the application—precision with HIGH QUALITY, impact with HIGH BRIGHTNESS.

DIMMER CURVES

Five dimming modes are available:

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

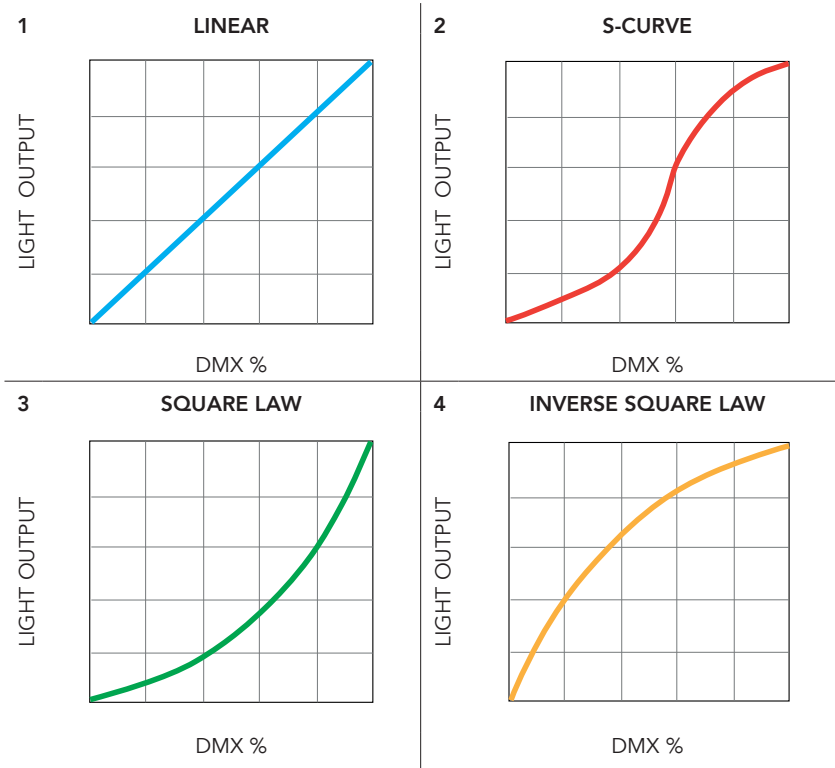


Fig. 08

DIMMER SPEEDS

Five dimming speeds are available:

1. **AUTO** - When the DMX value changes by more than 50 DMX values, the intensity will instantly adjust to the new value. For changes less than 50 DMX values, the fast dimming curve will be applied.
2. **FAST** - Indicates the fast speed dimming curve. Refer to the diagram for reference.
3. **MEDIUM** - Indicates the medium speed dimming curve. Refer to the diagram for reference.
4. **SLOW** - Indicates the slow dimming curve. Refer to the diagram for reference.
5. **OFF** - The intensity will immediately adjust to the new value (essentially no delay effect).

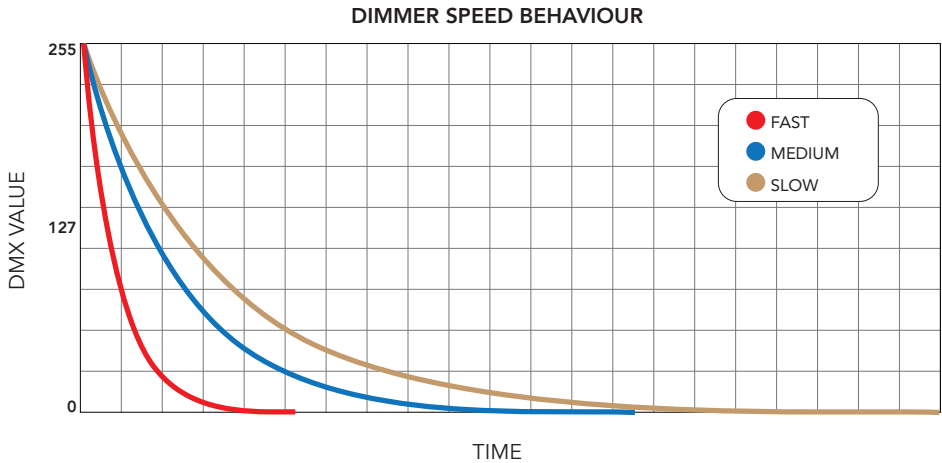


Fig. 09

USER SETTINGS

This function allows the fixture to store and manage custom settings, which are saved as user presets. Factory default settings will not overwrite these saved presets, preserving each user's configuration.

- **SAVE** - Available when a preset slot is empty, enabling users to save the current fixture settings into that slot. Up to five presets can be saved for quick recall of different configurations.
- **RECALL** - Loads the settings stored in a selected preset slot, applying them to the fixture and making it easy to switch between saved configurations as needed.
- **DELETE** - Clears the selected preset slot, freeing it up for a new save. Deleting a preset does not impact any other saved presets or factory settings.

10 - DMX CHARTS

RDM Model ID: 0xD180

RDM Personality ID List

ID	DMX Mode	Footprint
1	UNO	1CH
2	DUO	2CH
3	5CH	5CH
5	6CH	6CH
6	9CH	9CH
7	12CH	12CH
8	13CH	13CH

DMX BASIC MODES

PARAMETER	UNO	DUO	5CH	6CH	9CH	12CH	13CH
DIMMER	1	1	-	1	1	1	1
DIMMER FINE	-	2	-	-	2	2	2
CCT	-	-	-	-	-	-	3
CCT FINE	-	-	-	-	-	-	4
GMP	-	-	-	-	-	-	5
CROSSFADE	-	-	-	-	-	-	6
RED	-	-	1	2	3	3	7
GREEN	-	-	2	3	4	4	8
BLUE	-	-	3	4	5	5	9
WARM WHITE	-	-	4	5	6	6	10
STROBE	-	-	-	-	7	7	11
COLOR MACRO	-	-	-	-	-	8	-
EFFECTS	-	-	-	-	-	9	-
EFFECTS SPEED	-	-	-	-	-	10	-
CONTROL	-	-	-	-	8	11	12
RESERVED	-	-	5	6	9	12	13

CHANNEL DEFINITION

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

CCT (2800K - 10000K)						
Function		8 bit value		16 bit value		Note
CCT(K) From	CCT(K) To	From	To	From	To	
2800	2900	0	4	0	910	Default @ 0
2900	3000	4	7	910	1820	
3000	3100	7	11	1820	2731	
3100	3200	11	14	2731	3641	
3200	3300	14	18	3641	4551	
3300	3400	18	21	4551	5461	
3400	3500	21	25	5461	6371	
3500	3600	25	28	6371	7282	
3600	3700	28	32	7282	8192	
3700	3800	32	35	8192	9102	
3800	3900	35	39	9102	10012	
3900	4000	39	43	10012	10923	
4000	4100	43	46	10923	11833	
4100	4200	46	50	11833	12743	
4200	4300	50	53	12743	13653	
4300	4400	53	57	13653	14563	
4400	4500	57	60	14563	15474	
4500	4600	60	64	15474	16384	
4600	4700	64	67	16384	17294	
4700	4800	67	71	17294	18204	
4800	4900	71	74	18204	19114	
4900	5000	74	78	19114	20025	
5000	5100	78	81	20025	20935	
5100	5200	81	85	20935	21845	
5200	5300	85	89	21845	22755	
5300	5400	89	92	22755	23665	
5400	5500	92	96	23665	24576	
5500	5600	96	99	24576	25486	
5600	5700	99	103	25486	26396	
5700	5800	103	106	26396	27306	
5800	5900	106	110	27306	28216	
5900	6000	110	113	28216	29127	
6000	6100	113	117	29127	30037	
6100	6200	117	120	30037	30947	
6200	6300	120	124	30947	31857	
6300	6400	124	128	31857	32768	
6400	6500	128	131	32768	33678	
6500	6600	131	135	33678	34588	
6600	6700	135	138	34588	35498	

CCT (2800K - 10000K)

Function		8 bit value		16 bit value		Note
CCT(K) From	CCT(K) To	From	To	From	To	
6700	6800	138	142	35498	36408	
6800	6900	142	145	36408	37319	
6900	7000	145	149	37319	38229	
7000	7100	149	152	38229	39139	
7100	7200	152	156	39139	40049	
7200	7300	156	159	40049	40959	
7300	7400	159	163	40959	41870	
7400	7500	163	166	41870	42780	
7500	7600	166	170	42780	43690	
7600	7700	170	174	43690	44600	
7700	7800	174	177	44600	45510	
7800	7900	177	181	45510	46421	
7900	8000	181	184	46421	47331	
8000	8100	184	188	47331	48241	
8100	8200	188	191	48241	49151	
8200	8300	191	195	49151	50061	
8300	8400	195	198	50061	50972	
8400	8500	198	202	50972	51882	
8500	8600	202	205	51882	52792	
8600	8700	205	209	52792	53702	
8700	8800	209	213	53702	54613	
8800	8900	213	216	54613	55523	
8900	9000	216	220	55523	56433	
9000	9100	220	223	56433	57343	
9100	9200	223	227	57343	58253	
9200	9300	227	230	58253	59164	
9300	9400	230	234	59164	60074	
9400	9500	234	237	60074	60984	
9500	9600	237	241	60984	61894	
9600	9700	241	244	61894	62804	
9700	9800	244	248	62804	63715	
9800	9900	248	251	63715	64625	
9900	10000	251	255	64625	65535	

GMP

Function	8 bit value		16 bit value		Note
	From	To	From	To	
-25% to 0	0	127	-	-	Default @ 128 Linear tint correction from -0.25 to +0.25
Neutral	128	128	-	-	
0 to 25%	129	255	-	-	

Crossfade from CCT to Color

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

Colors (RED - GREEN - BLUE - WARM WHITE)

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

Color Macro

Function	8 bit value		16 bit value		Note
	From	To	From	To	
No Function	0	1	-	-	Default @ 0
Red	2	3	-	-	
Green	4	5	-	-	
Blue	6	7	-	-	
Cyan	8	9	-	-	
Magenta	10	11	-	-	
Yellow	12	13	-	-	
Dirty White	14	15	-	-	
Alice Blue	16	17	-	-	
Congo Blue	18	19	-	-	
Dark Steel Blue	20	21	-	-	
Deep Lavender	22	23	-	-	
Lilac Ting	24	25	-	-	
Daylight Blue	26	27	-	-	
Flame Red	28	29	-	-	
Bastard Amber	30	31	-	-	
Deep Orange	32	33	-	-	
Pale Gold	34	35	-	-	
Apricot	36	37	-	-	
Bright Blue	38	39	-	-	
Primary Green	40	41	-	-	
Special Lavender	42	43	-	-	
Pale Lavender	44	45	-	-	
Deep Golden Amber	46	47	-	-	
Medium Blue	48	49	-	-	
Bright Pink	50	51	-	-	
Mauve	52	53	-	-	
Dark Green	54	55	-	-	
Lee Green	56	57	-	-	
Dark Blue	58	59	-	-	
Light Blue	60	61	-	-	
Steel Blue	62	63	-	-	
Medium Blue-Green	64	65	-	-	
Peacock Blue	66	67	-	-	
Magenta	68	69	-	-	
Dark Pink	70	71	-	-	
Middle Rose	72	73	-	-	
Light Salmon	74	75	-	-	
English Rose	76	77	-	-	
Light Rose	78	79	-	-	
Orange	80	81	-	-	
Deep Amber	82	83	-	-	
Straw	84	85	-	-	
Light Amber	86	87	-	-	

Color Macro					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
Spring Yellow	88	89	-	-	
Dark Yellow Green	90	91	-	-	
Just Blue	92	93	-	-	
Sky Blue	94	95	-	-	
Lavender	96	97	-	-	
Light Lavender	98	99	-	-	
Pink Carnation	100	101	-	-	
Medium Pink	102	103	-	-	
Light Pink	104	105	-	-	
Sunset Red	106	107	-	-	
Dark Amber	108	109	-	-	
Gold Amber	110	111	-	-	
Medium Amber	112	113	-	-	
Fire	114	115	-	-	
Surprise Peach	116	117	-	-	
Straw Tint	118	119	-	-	
Medium Yellow	120	121	-	-	
Lee Minus Green	122	123	-	-	
Pale Gold	124	125	-	-	
Orange	126	127	-	-	
Deep Straw	128	129	-	-	
Rose Purple	130	131	-	-	
Deep Purple	132	133	-	-	
Soft Green	134	135	-	-	
Reserved for future use	136	211	-	-	
2800K	212	213	-	-	
3000K	214	215	-	-	
3200K	216	217	-	-	
3400K	218	219	-	-	
3600K	220	221	-	-	
3800K	222	223	-	-	
4000K	224	225	-	-	
4200K	226	227	-	-	
4400K	228	229	-	-	
4600K	230	231	-	-	
4800K	232	233	-	-	
5000K	234	235	-	-	
5200K	236	237	-	-	
5400K	238	239	-	-	
5600K	240	241	-	-	
6000K	242	243	-	-	
6500K	244	245	-	-	
7000K	246	247	-	-	
8000K	248	249	-	-	
9000K	250	251	-	-	
10000K	252	253	-	-	
FULL ON	254	255	-	-	

Strobe

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

Effects

Function	8 bit value		16 bit value		Note
	From	To	From	To	
No Function	0	10	-	-	Default @ 0
FX 1	11	60	-	-	
FX 2	61	110	-	-	
FX 3	111	160	-	-	
FX 4	161	210	-	-	
FX 5 (FX 1 -4)	211	255	-	-	

Effects speed

Function	8 bit value		16 bit value		Note
	From	To	From	To	
From slow to fast	0	255	-	-	Default @ 128

Control Channel

Function		8 bit value		Note
		From	To	
No Function / Safe		0	1	Default @ 0
DISPLAY	ON	2	3	Hold 3s to take function
	10s	4	5	
	20s	6	7	
	30s	8	9	
FLIP DISPLAY	ON	10	11	
	OFF	12	13	
KEY LOCK	ON	14	15	
	OFF	16	17	
TEMPERATURE UNIT	°C	18	19	
	°F	20	21	

Control Channel

Function		8 bit value		Note
		From	To	
DIMMER CURVE	LINEAR	22	23	
	S-CURVE	24	25	
	SQUARE LAW	26	27	
	INVERSE SQUARE LAW	28	29	
DIMMER SPEED	AUTO	30	31	
	FAST	32	33	
	MEDIUM	34	35	
	SLOW	36	37	
	OFF	38	39	
SPEKTRA CALIBRATION	ON	40	41	
	PURE COLORS	42	43	
	OFF	44	45	
LED FREQUENCY	1000HZ	46	47	
	2000HZ	48	49	
	4000HZ	50	51	
	6000HZ	52	53	
	25KHZ	54	55	
DMX FAULT	HOLD	56	57	
	BLACKOUT	58	59	
	STAND ALONE	60	61	
STANDALONE	MASTED DMX	62	63	
	MASTER NO DMX	64	65	
	SLAVE	66	67	
	EFFECTS	68	69	
	FIXED COLORS	70	71	
	WHITE PRESETS	72	73	
	COLOR MACRO	74	75	
	MANUAL COLORS	76	77	
LED MODE	HIGH BRIGHTNESS	78	79	
	HIGH QUALITY	80	81	
WHITE POINT	FULL ON	82	83	
	3200K	84	85	
	4000K	86	87	
	5600K	88	89	
	6000K	90	91	
TUNGSTEN EMULATION	8000K	92	93	
	ON	94	95	
	OFF	96	97	
Reserved		98	251	
Reset all channel controlled		252	253	
Reserved		254	255	

11 - RDM FUNCTIONS

The product can communicate using RDM (Remote Device Management) protocol over a DMX512 Networks.

RDM is a bi-directional communications protocol for use in DMX512 control systems, it is the open standard for DMX512 device configuration and status monitoring.

The RDM protocol allows data packets to be inserted into a DMX512 data stream without affecting existing non-RDM equipment. It allows a console or dedicated RDM controller to send commands to and receive messages from specific fixtures.

The PIDs in the following tables are supported in the product.

Category	Parameter	Value	GET	SET
RDM Information	SUPPORTED_PARAMETERS	0x0050	x	
	PARAMETER_DESCRIPTION	0x0051	x	
Product Information	PRODUCT_DETAIL_ID_LIST	0x0070	x	
	DEVICE_MODEL_DESCRIPTION	0x0080	x	
	MANUFACTURER_LABEL	0x0081	x	
	DEVICE_LABEL	0x0082	x	x
	FACTORY_DEFAULTS	0x0090	x	x
DMX512 Setup	DMX_PERSONALITY	0x00E0	x	x
	DMX_PERSONALITY_DESCRIPTION	0x00E1	x	
	DMX_START_ADDRESS	0x00F0	x	x
	SLOT_INFO	0x0120	x	
	SLOT_DESCRIPTION	0x0121	x	
	DEFAULT_SLOT_VALUE	0x0122	x	
Sensors	SENSOR_DEFINITION	0x0200	x	
	SENSOR_VALUE	0x0201	x	x
Dimmer Settings	CURVE	0x0343	x	x
	CURVE_DESCRIPTION	0x0344	x	x
	OUTPUT_RESPONSE_TIME	0x0345	x	x
	OUTPUT_RESPONSE_TIME_DESCRIPTION	0x0346	x	
	MODULATION_FREQUENCY	0x0347	x	x
	MODULATION_FREQUENCY_DESCRIPTION	0x0348	x	
Power/Lamp Settings	DEVICE_HOURS	0x0400	x	x
	LAMP_HOURS	0x0401	x	x
	LAMP_STRIKES	0x0402	x	x
	LAMP_STATE	0x0403	x	x
	LAMP_MODE	0x0404	x	x
	DEVICE_POWER_CYCLES	0x0405	x	x

Manufacturer Specific PIDs

Parameter	PID	GET	SET	Value	Description
MASTER/SLAVE	0x8211	x	x	0-2	0: Master DMX 1: Master NO DMX 2: Slave
DMX FAULT	0x82DD	x	x	0-3	0: Hold 1: Blackout 2: Stand Alone
MANUAL RED	0x82C0	x	x	0-255	DEFAULT: 255
MANUAL GREEN	0x82C1	x	x	0-255	DEFAULT: 255
MANUAL BLUE	0x82C2	x	x	0-255	DEFAULT: 255
MANUAL WHITE	0x82C3	x	x	0-255	DEFAULT: 255
CURRENT HOURS	0x82C5	x		0-1	
ERROR MESSAGES	0x82EA	x		0-2	
MAINTENANCE TIME:ALERT PERIOD	0x82DF	x	x	10-300	DEFAULT: 300
MAINTENANCE TIME:ELAPSED TIME	0x82E0	x	x	0-1	DEFAULT: 0
CLEAN ALL DATA	0x82C8	x	x	0-1	0: No 1: Yes
COLOR MACROS	0x82ED	x	x	0-70	See color macro table
FIXED COLOR	0x82BE	x	x	0-14	0: R 1: G 2: B 3: W 4: RG 5: RB 6: RW 7: GB 8: GW 9: BW 10:RGB 11:RGW 12:RBW 13:GBW 14:RGBW
WHITE PRESETS	0x82BF	x	x	0-15	0: 2700K 1: 2800K 2: 3200K 3: 3500K 4: 4000K 5: 4500K 6: 5000K 7: 5600K 8: 6000K 9: 6500K 10:7000K 11:8000K 12:9000K 13:10000K
EFFECTS	0x8209	x	x	1-5	DEFAULT: 1
EFFECTS SPEED	0x8210	x	x	0-255	DEFAULT: 255
LED MODE	0x8217	x	x	0-1	0: High Brightness 1: High Quality
POWER CONSUMPTION	0x82EF	x			
SPEKTRA CALIBRATION	0x822F	x	x	0-2	0: On 1: Pure Colors 2: Off
STAND ALONE MODE	0x82EC	x	x	0-4	0:Effects 1:Fixed Color 2:Color Macros 3:White Presets 4:Manual Colors
WHITE POINT	0x8331	x	x	0-5	0: Full On 1: 3200K 2: 4000K 3: 5600K 4: 6000K 5: 8000K

12 - ERROR MESSAGES

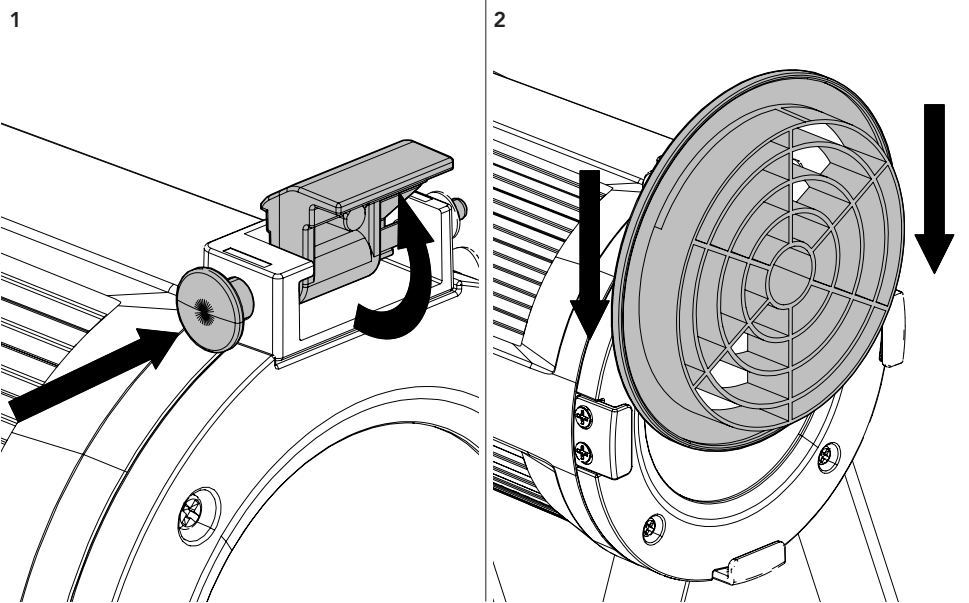
The error is shown on the unit display. In the table below, the "ERROR SHOWED ON SCREEN" column lists the possible errors, accompanied by a possible cause ("POSSIBLE" CAUSES "column).

ERROR SHOWED ON SCREEN	POSSIBLE CAUSES	POSSIBLE PCB WITH ANOMALY
NO ERROR	No error	-
TEMPERATURE HIGH	The temperature is higher than the set temperature	LED MODULE
SENSOR ERROR	Sensor error	TEMP. SENSOR
MAINTENANCE	Maintenance time is up	DISPLAY / DRV
NO CALIBRATION IC	Can't find the Calibration IC	DRV2 / CALIBR. CHIP
CALIBRATION DATA ERROR	Correct the errors in the Calibration IC data	DRV2 / CALIBR. CHIP

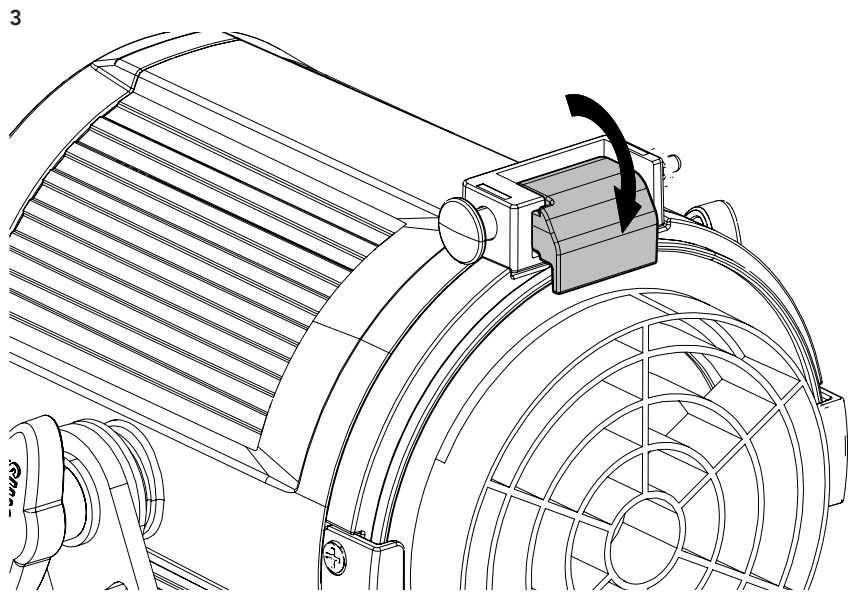
13 - ACCESSORIES INSTALLATION

SNOOT, LOUVRE

(PDOTFSNOOT; PDOTCLOUVRE - OPTIONAL)



Open the Holder Clip (1) and insert the accessory (2).



Once the accessory is inserted close the top clip (3).

Fig. 10

14 - MAINTENANCE

MAINTENANCE AND CLEANING THE PRODUCT

WARNING: Disconnect from the mains before starting any maintenance work

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

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

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

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

VISUAL CHECK OF PRODUCT HOUSING

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

TROUBLESHOOTING

Problems	Possible causes	Checks and remedies
Product doesn't power ON	• No power to the product.	• Check that power is switched ON and cables are plugged in.
	• Fuse blown or internal fault.	• Contact the PROLIGHTS Service or authorized service partner. Do not remove parts and/or covers, or carry out any repairs or service that are not described in this Safety and User Manual unless you have both authorization from PROLIGHTS and the service documentation.
Product does not respond correctly to the 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	• One or more hardware components requires mechanical adjustments.	• Check product stored error messages for more information. Contact PROLIGHTS Service or an authorized service partner.
Light output turn OFF Intermittently	• Fixture is too hot.	• Check product stored error messages. • Allow product to cool. • Clean the product. • Reduce ambient temperature.
	• Hardware failure (temperature sensor, Light source...).	• Check product stored error messages for more information. Contact PROLIGHTS Service or an authorized service partner.
General low light intensity	• Dirty lens assembly	• Clean the fixture regularly.
	• Dirty or damaged filters	• Install lens assembly properly.

Contact an authorized service center in case of technical problems or not reported in the table can not be resolved by the procedure given in the table.

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

This image shows a full page of blank, lined paper. It features approximately 20 evenly spaced horizontal grey lines across its entire width, providing a guide for handwriting or typing. The paper itself is a clean, off-white color.

