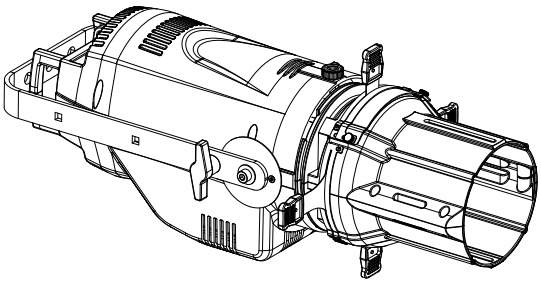
PROLIGHTS®
PROFESSIONAL LIGHTS

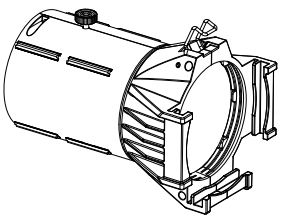
ECLIPSEFS

LED PROFILER

ECLIPSEFS



OPTIC
14° / 19° / 26° / 36° / 50°



USER MANUAL

TABLE OF CONTENTS

Packing content

- ECLIPSEFS
- Power cable
- User manual

WARNING! Before carrying out any operations with the unit, carefully read this instruction manual and keep it with cure for future reference. It contains important information about the installation, usage and maintenance of the unit.

SAFETY

General instruction

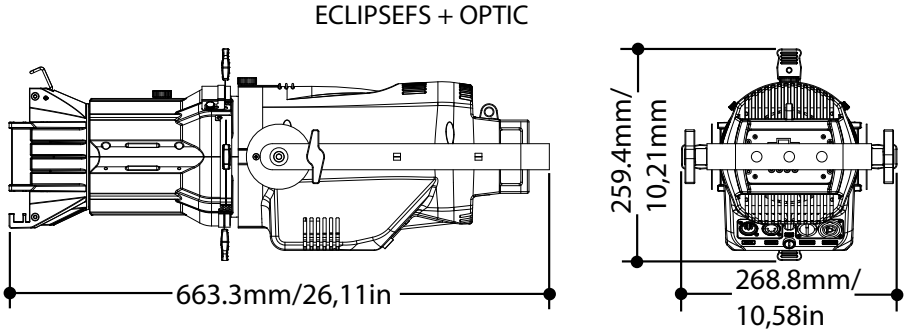
- The products referred to in this manual conform to the European Community Directives and are therefore marked with CE and approved for the North American Market.
- The unit is supplied with hazardous network voltage (230V~). Leave servicing to skilled personnel only. Never make any modifications on the unit not described in this instruction manual, otherwise you will risk an electric shock.
- Connection must be made to a power supply system fitted with efficient earthing (Class I appliance according to standard EN 60598-1). It is, moreover, recommended to protect the supply lines of the units from indirect contact and/or shorting to earth by using appropriately sized residual current devices.
- The connection to the main network of electric distribution must be carried out by a qualified electrical installer. Check that the main frequency and voltage correspond to those for which the unit is designed as given on the electrical data label.
- This unit is not for home use, only professional applications.
- Never use the fixture under the following conditions:
  - in places wet;
  - in places subject to vibrations or bumps;
  - in places with a temperature of over 45 °C.
- Make certain that no inflammable liquids, water or metal objects enter the fixture.
- Do not dismantle or modify the fixture.
- All work must always be carried out by qualified technical personnel. Contact the nearest sales point for an inspection or contact the manufacturer directly.
- If the unit is to be put out of operation definitively, take it to a local recycling plant for a disposal which is not harmful to the environment.

Warnings and installation precautions

- If this device will be operated in any way different to the one described in this manual, it may suffer damage and the guarantee becomes void. Furthermore, any other operation may lead to dangers like short circuit, burns, electric shock, etc.
- Before starting any maintenance work or cleaning the projector, cut off power from the main supply.
- Always additionally secure the projector with the safety rope. When carrying out any work, always comply scrupulously with all the regulations (particularly regarding safety) currently in force in the country in which the fixture's being used.
- Install the fixture in a well ventilated place.
- Keep any inflammable material at a safe distance from the fixture.
- Shields, lenses or ultraviolet screens shall be changed if they have become damaged to such an extent that their effectiveness is impaired.
- The lamp (LED) shall be changed if it has become damaged or thermally deformed.
- Never look directly at the light beam. Please note that fast changes in lighting, e. g. flashing light, may trigger epileptic seizures in photosensitive persons or persons with epilepsy.
- Do not touch the product's housing when operating because it may be very hot.
- This product was designed and built strictly for the use indicated in this documentation. Any other use, not expressly indicated here, could compromise the good condition/operation of the product and/or be a source of danger.
- We decline any liability deriving from improper use of the product.

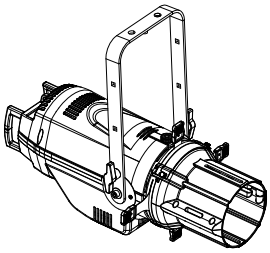
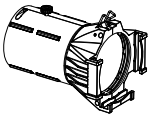
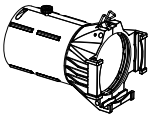
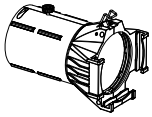
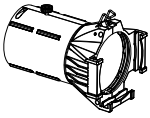
- 1 - INTRODUCTION

1.1 TECHNICAL DRAWING



Technical drawing *Fig.1*

1.2 CONFIGURATIONS

<table>
<tr><th colspan="3">Configuration</th></tr>
<tr><td>1</td><td>Reflector Housing
 
ECLIPSEFS</td><td>Middle part, compatible with
14°, 19°, 26°, 36°, 50° optics</td></tr>
<tr><td rowspan="3">2</td><td>Optics for ECLIPSE profiler,
14° beam
  </td><td>Optics for ECLIPSE profiler,
19° beam
  </td></tr>
<tr><td colspan="2">OR</td></tr>
<tr><td>Optics for ECLIPSE profiler,
26° beam
  </td><td>Optics for ECLIPSE profiler,
36° beam
  </td></tr>
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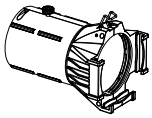
50° beam
  </td><td></td></tr>
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1.3 OPERATING ELEMENTS AND CONNECTIONS

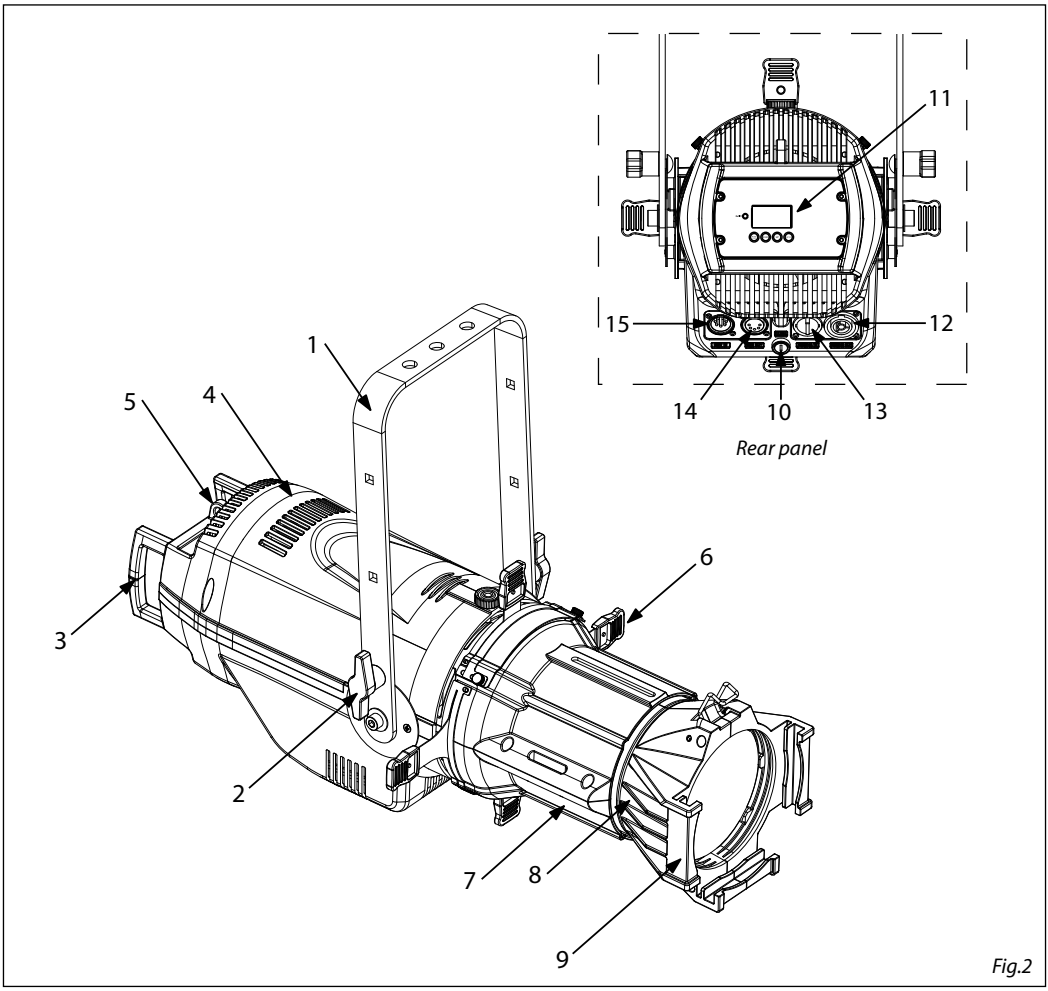


Fig.2

1. MOUNTING BRACKET
2. LOCKING KNOB for the mounting bracket
3. HANDLE
4. ECLIPSEFS
5. SAFETY EYE to attach safety cable.
6. SHUTTER
7. ECLIPSEMP - Aluminium middle part
8. OPTIC
9. FILTER FRAME
10. FUSE OLDER in the event of breakage, always replace the fuse with the same type and rating.
11. CONTROL PANEL with display and 4 button used to access the control panel functions and manage them.
12. POWER OUT (PowerCON OUT): connect to supply power to the next unit.
13. POWER IN (PowerCON IN): for connection to a socket (100-240V~/50-60Hz) via the supplied mains cable.
14. DMX OUT (5-pole XLR):
    1 = ground, 2 = DMX-, 3 = DMX+, 4 N/C, 5 N/C
15. DMX IN (5-pole XLR):
    1 = ground, 2 = DMX-, 3 = DMX+, 4 N/C, 5 N/C

- 2 - INSTALLATION

2.1 MOUNTING

ECLIPSEFS may be set up on a solid and even surface. The unit can also be mounted upside down to a cross arm. For fixing, stable mounting clips are required. The mounting place must be of sufficient stability and be able to support a weight of 10 times of the unit's weight.

When carrying out any installation, always comply scrupulously with all the regulations (particularly regarding safety) currently in force in the country in which the fixture's being used.

- Install the projector at a suitable location by means of the mounting bracket (1).
- Always additionally secure the projector with the safety rope from falling down. For this purpose, fasten the safety rope at a suitable position so that the maximum fall of the projector will be 20 cm.
- Adjust the projector and use the knob (2) to slightly release or tighten the locking mechanism of the bracket if is necessary.

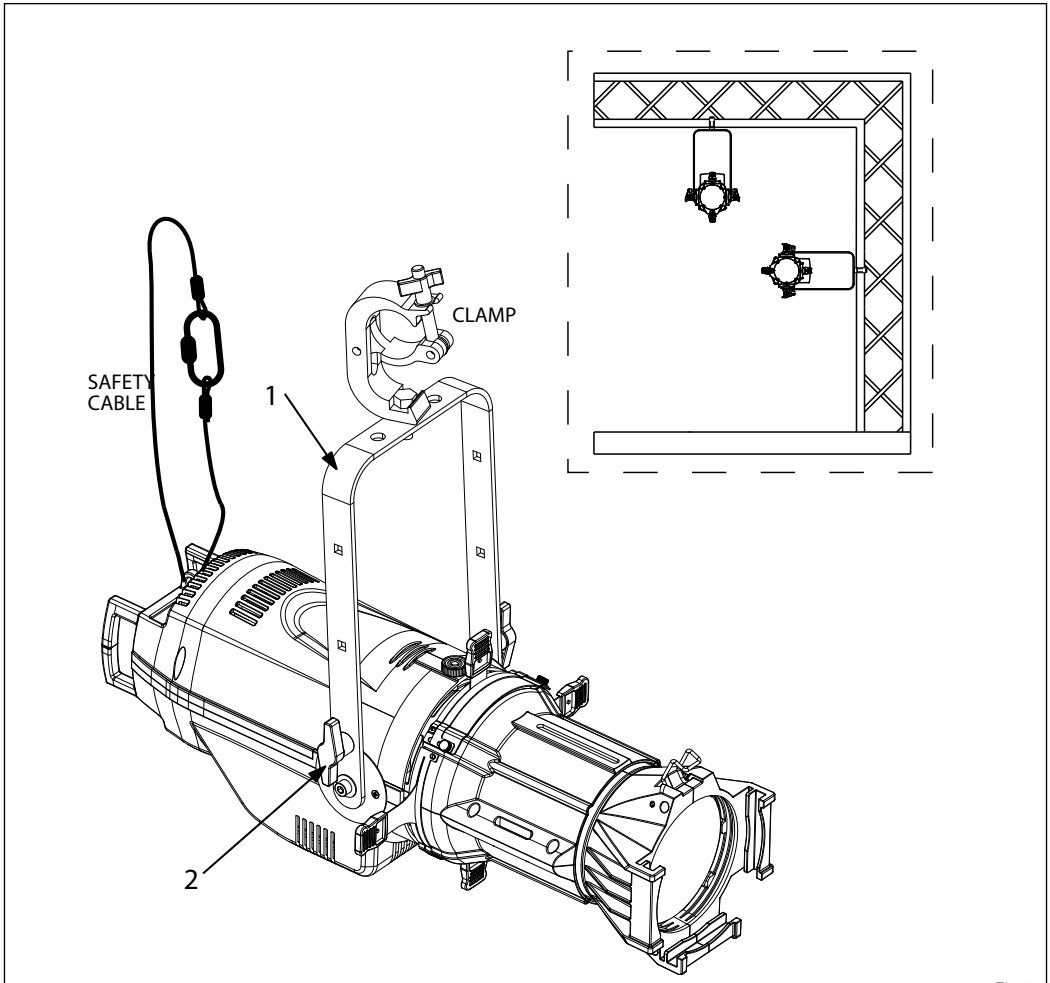


Fig.3

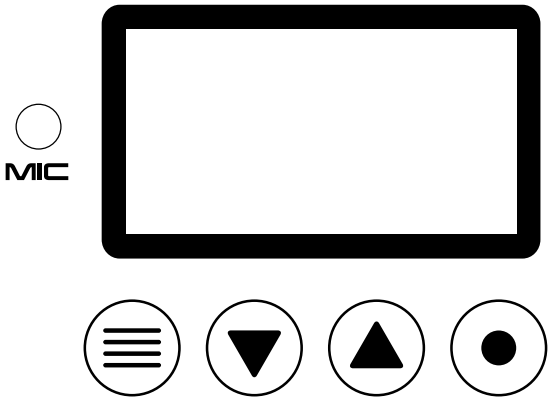
- 3 - FUNCTIONS AND SETTINGS

3.1 OPERATION

Connect the supplied main cable to a socket (100-240 VAC-50/60 Hz). Then the unit is ready for operation and can be operated via a DMX controller or it independently performs its show program in succession. To switch off, disconnect the mains plug from the socket. For a more convenient operation it is recommended to connect the unit to a socket which can be switched on and off via a light switch.

3.2 BASIC

Access control panel functions using the four panel buttons located directly underneath the LCD Display (fig.4).



MODE/ESC	UP	DOWN	ENTER
Used to access the menu or to return a previous menu option	Navigates downwards through the menu list and increases the numeric value when in a function	Navigates upwards through the menu list and decreases the numeric value when in a function	Used to select and store the current menu or confirm the current function value or option within a menu

Fig.4 - Functions of the buttons

3.3 MENU STRUCTURE

	MENU						
1	**CONNECT**	⇨	DMX Address	⇨	Value (1-512)		Default: 5CHRGBL
			DMX Mode	⇨	1CH 2CH 3CH 3CHRGB 4CHRGBL 5CH 5CHRGBL 8CH 13CH Tungsten (Define by Static=>Tungsten) 1CH-3200K 1CH-5400K 1CH-6500K		
			RDM ID	⇨	Name	EclipseFS	
					RDM Mode ⇨	Mode1/Mode2	Default: Mode1
					Password	050 (end user calibration) 217 (factory calibration)	
					PID Code		
2	**SET UP**	⇨	Temperature	⇨	Temperature. C/F	Fahrenheit /Celsius	Default: Celsius
					Max Temp	60~90°C/140~194°C	Default: 90°C
			Screen	⇨	Backlight ⇨	Off~99m	Default: 02m
					Flip Display ⇨	Yes/No	Default: No
			Fixture	⇨	Fan mode ⇨	Auto Speed / High Speed	Default: Auto Speed
					Hibernation	Disable/Min(1~99)	Default: Disable
					Theatre	Yes/No	Default: No
					LED frequency ⇨	600Hz...1200Hz	Default: 1200Hz
			Adjust	⇨	Dimmer...		
3	**ADVANCED**	⇨	Dimmer		OFF		
				⇨	Dimmer 1		Default: Dimmer 1
					....		
			Halogen	⇨	Studio Mode HB Mode		Default:Studio Mode
			Calibration	⇨	Password	050 (end user calibration) 217 (factory calibration)	
					External ⇨	Yes/No	Default: No
					Red		
					Green		
					Blu		
					Lime		

4	**INFORMATION**	⇨	Time Info.		Current		XXXX(Hours)
			Temperature		Fixture Life		XXXX(Hours)
			Factory Cal		Near Lamp Temp		
			Factory RDM				
			Software Ver		1U01 V1.0.00		
5	**STATIC**	⇨	Play	⇨	DMX Receive		
					Slave Receive		
					Presets	⇨	Master / Alone / DMX
					Color MIX	⇨	Master / Alone / DMX
			Presets	⇨	All		
					Red		
					Green		
					Blue		
					Lime		
					Cyan		
					Magenta		
					Yellow		
					Orange		
					Light Y		
					Light B		
					Light P		
					2700K		
					3200K		
					4200K		
					5000K		
					5500K		
					6000K		
					7000K		
					8000K		
					9000K		
					10000K		
			Tungsten	⇨	Red		
					Green		
					Blue		
					Lime		
			Color Mix 1	⇨	Switch	⇨	On/Off Default: On
					Hold Time		
					Fade Time		
					Dimmer		
			Color Mix 16	⇨	Switch	⇨	On/Off Default: On
					Hold Time		
					Fade Time		
					Dimmer		

6	**DEFAULT**	⇨	Basic Reload	⇨	On/Off
			Program Reload Password	⇨	On/Off
			Private Reload Recover calibration and RDM PID code	⇨	On/Off
			All Reload Recover calibration and RDM PID code	⇨	On/Off

3.4 STATIC

This mode is used to decide how the projector should operate.

- Press the MODE button so many times until the display shows **STATIC**, then press the button ENTER.
- Press the UP/DOWN button to scroll through the menu, then select **Play** and press the ENTER button.
- Press UP/DOWN to scroll through the menu, and then select one of the following settings:
  - **DMX Receive** - The projector will need to operate based on the received DMX signal.
  - **Slave Receive** - Means that the projector will act as a slave in a slave master chain,
  - **Presets** - The projector will be able to play the selected preset (**All, Red, Green, Blue, Lime, Cyan, Magenta, Yellow, Orange, Light Yellow, Light Blue, Light Pink, White 2700K, White 3200K, White 4200K, White 5000K, White 5500K, White 6000K, White 7000K, White 8000K, White 9000K, White 10000K Tungsten (Red, Green Blue, Lime))**. This can be done as a **Master**, that is the projector will act as a slave in a Master Slave chainas, as **Alone** or as **DMX**, choosing the DMX chart at **1CH.**
  - **Color Mix 1-16** - The projector will be able to play the selected preset (**All, Red, Green, Blue, Lime, Cyan, Magenta, Yellow, Orange, Light Yellow, Light Blue, Light Pink, White 2700K, White 3200K, White 4200K, White 5000K, White 5500K, White 6000K, White 7000K, White 8000K, White 9000K, White 10000K Tungsten (Red, Green Blue, Lime)**. This can be done as a **Master**, that is the projector will act as a slave in a Master Slave chainas, as **Alone** or as **DMX**, choosing the DMX chart at **1CH (**after activation thought **Switch On** option).

NOTE: if more mix colors have the ad **on switch**, these will be played in sequence.

  - **Tungsten** - Allow to choose the maximum value that each color must have when the **1 ch Tungsten** mode is used.
- Press the ENTER button to confirm your choice.
- Press the MODE button to go back or to meet the waiting time to exit the setup menu.

3.5 LINKING

1. Connect the DMX OUT of the master unit via 5-pole XLR cable to the DMX IN of the first slave unit.
2. Connect the DMX OUT of the first slave unit to the DMX IN of the second slave unit, etc. until all units are connected in a chain.

3.6 DMX CONFIGURATION

ECLIPSEFS is equipped with different DMX configuration.

- Press the button MODE so many times until shows **CONNECT**, and press the button ENTER to confirm.
- Select **Mode** through the buttons UP/DOWN, then press the button ENTER.
- Select the desired DMX configuration (**1CH - - 2CH - 3CH - 3CHRGB - 4CH RGBL- 5CH - 5CHRGBL - 8CH - 13CH - 1CH 3200K - 1CH 5400K - 1CH 6500K**) through the buttons UP/DOWN.

The tables on page 13 indicate the operating mode and DMX value. The ECLIPSEFS is equipped with 5-pole XLR connections.

3.7 DMX MODE

- Press the button MENU so many times until the display shows **CONNECT**, and press the button ENTER to confirm.
- Select **DMX Address** through the buttons UP/DOWN, then press the button ENTER.
- Press UP/DOWN button to select the desired value (**001-512**). Press and hold to scroll quickly.
- Press ENTER button to store.
- Press the MODE button to go back or to meet the waiting time to exit the setup menu.

To able to operate the ECLIPSE with a light controller, adjust the DMX start address for the first a DMX channel. If e. g. address 33 on the controller is provided for controlling the function of the first DMX channel, adjust the start address 33 on the ECLIPSE. The other functions of the light effect panel are then

automatically assigned to the following addresses. An example with the start address 33 is shown below:

Number of DMX channels	Start address (example)	DMX Address occupied	Next possible start address for unit No. 1	Next possible start address for unit No. 2	Next possible start address for unit No. 3
1	33	33	34	35	36
2	33	33-34	35	37	39
3	33	33-35	36	39	42
4	33	33-36	37	41	45
5	33	33-37	38	43	48
8	33	33-40	41	49	57
13	33	33-45	46	59	72

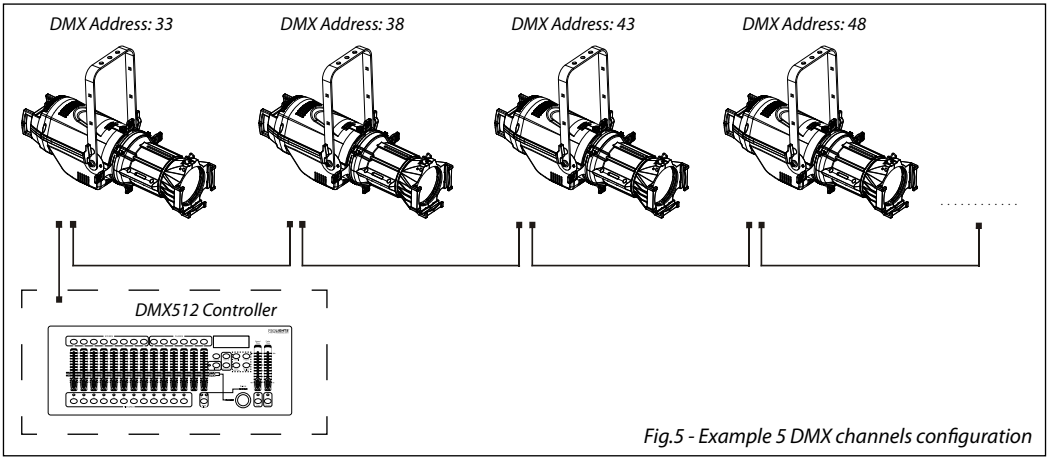


Fig.5 - Example 5 DMX channels configuration

3.8 FIXTURE ID AND RDM

With this function you can call up various submenus via RDM.

This device is RDM ready. RDM stands for "Remote Device Management" and makes remote control of devices connected to the DMX-bus possible. Manual settings like adjusting the DMX starting address are no longer needed. This is especially useful when the device is installed in a remote area. RDM is integrated in DMX without influencing the connections. The RDM-data is transmitted via the standard XLR-poles 1and 2 – new DMX-cables are not necessary. RDM ready and conventional DMX devices can be operated in one DMX line. The RDM protocol sends own packages in the DMX512 data feed and does not influence conventional devices. If DMX splitters are used and RDM control is to be used, these splitters must support RDM. The number and type of RDM parameters depend on the RDM controller (not included) is used.

- Press the button MODE so many times until the display shows **CONNECT**, then press the button ENTER.
- Press the UP/DOWN button to scroll through the menu, then select **RDM ID** and press the ENTER button.
- Press UP/DOWN button to scroll through the menu, then select Password and press ENTER to confirm.
- Use the arrow keys to enter the password 050 and press ENTER to confirm.
- Once you have entered your password, you can set the PID Code, necessary to control the unit with the RDM protocol. Press the UP/DOWN button to scroll through the menu, select PID Code and press ENTER to confirm.
- Use the arrow keys to enter the PID Code, then press the ENTER button to confirm your choice.
- Press the MODE button to exit the menu and save changes.

3.9 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:

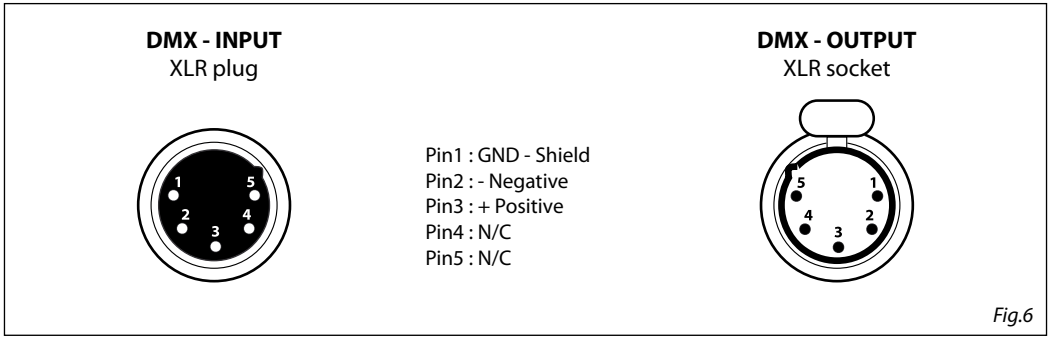


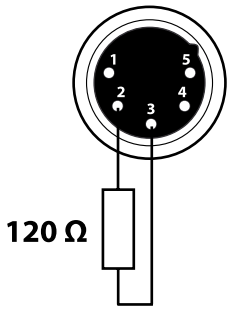
Fig.6

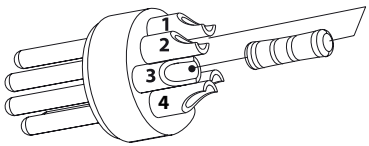
ATTENTION
The screened parts of the cable (sleeve) must never be connected to the system's earth, as this would cause faulty fixture and controller operation.
Over long runs can be necessary to insert a DMX level matching amplifier.
For those connections the use of balanced microphone cable is not recommended because it cannot transmit control DMX data reliably.

- Connect the controller DMX input to the DMX output of the first unit.
- Connect the DMX output to the DMX input of the following unit. Connect again the output to the input of the following unit until all the units are connected in chain.
- When the signal cable has to run longer distance is recommended to insert a DMX termination on the last unit.

3.10 CONSTRUCTION OF THE DMX TERMINATION

The termination avoids the risk of DMX 512 signals being reflected back along the cable when they reaches the end of the line: under certain conditions and with certain cable lengths, this could cause them to cancel the original signals.
The termination is prepared by soldering a 120Ω 1/4 W resistor between pins 2 and 3 of the 5-pin male XLR connector, as shown in figure.





Example:
5 pin XLR connector

Fig.7

3.11 DMX CONTROL

Channel													FUNCTION	DMX Value
Tun	3200K	5400K	6500K	1CH	2CH	3CH	RGB	4CH RGBL	5CH	5CH RGBL	8CH	13CH		
1	1	1	1	1	1	1			1	1	1	1	**Dimmer** Dimmer(Close to Open)	000 - 255
									2			2	**Dimmer fine** Dimmer fine 0->100%	000 - 255
					2	2			3				**CTC Preset** 2000K 2000K->2700K 2700K->3200K 3200K->4200K 4200K->5600K 5600K->8000K 8000K->10000K	 000 - 022 023 - 057 058 - 090 091 - 139 140 - 185 186 - 234 235 - 255
									4				**CTC Fine** CTC Fine	000 - 255
2							1	1		2	2	3	**Red** Red 0->100%	000 - 255
												4	**Red fine** Red fine 0->100%	000 - 255
3							2	2		3	3	5	**Green** Green 0->100%	000 - 255
												6	**Green fine** Green Fine 0->100%	000 - 255
4							3	3		4	4	7	**Blue** Blue 0->100%	000 - 255
												8	**Blue fine** Blue Fine 0->100%	000 - 255
5								4		5	5	9	**Lime** Lime 0->100%	000 - 255
												10	**Lime fine** Lime Fine 0->100%	000 - 255
											6	11	**CTC Preset** No function 2000K->2700K 2700K->3200K 3200K->4200K 4200K->5600K 5600K->8000K 8000K->10000K	 000 - 022 023 - 057 058 - 090 091 - 139 140 - 185 186 - 234 235 - 255
											7	12	**Shutter Function** Normal Shutter Functions Strobe effect slow to fast	 000 - 003 003 - 255
						3			5		8	13	**Dimmer Fade** 0->100%	000 - 255

3.12 SETUP

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

Temperature

Through the **Max Temperature** function can be displayed the temperature inside the fixture, near the lamp.

- Press the MODE button so many times until the display shows **SETUP**, then press the button ENTER.
- Press the UP/DOWN button to scroll through the menu, then select **Temperature** and press the ENTER button.
- Press UP/DOWN to scroll through the menu, and then select one of the following settings:
  - **Temperature °C/°F** - To choose the desired temperature unit: **Fahrenheit /Celsius.**
  - **Max Temperature** - To display the maximum temperature inside the fixture, near the lamp.
- Press the ENTER button to confirm your choice.
- Press the MODE button to go back or to meet the waiting time to exit the setup menu.

Screen

You can change the following parameters related to the display, following the same procedure:

- Press the button MODE so many times until the display shows **SETUP**, then press the button ENTER.
- Select **Screen** through the buttons UP/DOWN, then press the button ENTER.
- Press UP/DOWN to scroll through the menu, and then select one of the following settings for the display and press the ENTER key to display it.
  - **Back Light** - Backlight display Auto Off. This feature allows you to automatically turn off the backlight after a specified time that you can set using the arrow buttons. To have the display or set a value of **Off~99 min** to turn off the display after the amount of time you choose.
  - **Flip Display** - Orientation of the display. This function allows you to rotate the display 180° to get a better view of the display when the unit is hanging upside down. Select **Yes** to activate or **No** to disable this function.
- Press the ENTER button to confirm your choice.
- Press the MODE button repeatedly to exit the menu and save changes.

Fixture

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

- Press the button MODE to enter the menu mode.
- Press UP/DOWN button to select the **SETUP**. Press the ENTER button to confirm.
- Press UP/DOWN button to select the desired option and press the ENTER button to confirm:
  - **Fan Mode** - Fan Speed. Select the fan speed (**Auto Speed /High Speed**) using the UP / DOWN button.
  - **Hibernation** - To set the hibernation of the fixture (**Disable/Min(1~99**) using the UP / DOWN button.
  - **LED Frequency** - To adjust the frequency of the LEDs. Select the frequency (**600Hz - 1200Hz - 2000Hz - 4000Hz - 25kHz**) using the UP / DOWN.
  - **Theatre** - To set the theatre mode. Select **Yes** to activate, **No** to deactivate.
- Press the ENTER button to confirm your choice.
- Press the MODE button repeatedly to exit the menu and save changes.

3.13 ADVANCED

To enter in advanced functions mode, proceed as follows:

Dimmer

- Press the button MODE so many times until the display shows **ADVANCED**, then press the button ENTER.
- Press the UP/DOWN button to scroll through the menu, then select **Dim curve** and press the ENTER but-

ton
- Press the button UP/DOWN to select **Dimmer1 - Dimmer2 - Dimmer3 - Dimmer4.**
- Press ENTER button to store.
- Press the MODE button to go back or to meet the waiting time to exit the setup menu.

Halogen
- You can set the **Halogen** mode thought this section.
- Press the button MODE to enter the menu mode.
- Press UP/DOWN button to select the **ADVANCED**. Press the ENTER button to confirm.
- Press UP/DOWN button to select the desired option and press the ENTER button to confirm:
  - **HB Mode** - To set the **HB** mode (High Brightness Mode, with the maximum value of the colors)
  - **Studio Mode -** To set a automatic white balance.
- Press ENTER button to store.
- Press the MODE button to go back or to meet the waiting time to exit the setup menu.

Calibration

Select this function to calibrate and adjust code and channel:
- Press the button MODE so many times until the display shows **ADVANCED**, then press the button ENTER.
- Press the UP/DOWN button to scroll through the menu, then select **Calibration** and press the ENTER button.
- Enter the password "050".
- Use the UP/DOWN button to select the option proposed **(Code/CHxx)** and press the ENTER button to confirm the setting.
- Press the MODE button to go back and save changes.

3.14 FIXTURE INFORMATION

To view all the information on the device, proceed as follows:
- Press the button MODE so many times until the display shows **INFORMATION**, then press the button ENTER.
- Press the UP/DOWN button to scroll through the menu, then select one of the following information and press the ENTER button to display it.
  - **Time Info.** - Through the Time Info function you can display the operating time of the projector.
  - **Temperature** - Through the Temperature function can be displayed the temperature of sensor.
  - **Software Version** - Through Software Version function you can display the currently installed software version.
- Press the MODE button to exit the menu.

3.15 RELOAD DEFAULT

Select this function to reload all info:
- Press the button MODE so many times until the display shows **DEFAULT**, then press the button ENTER.
- Use the UP/DOWN button to select the option proposed **(Basic Reload/Program Reload/Private Reload/ All Reload)** and press the ENTER button to confirm the setting.
- Press the UP/DOWN button to select **On** or **Off**, then press the ENTER button to confirm.
- Press the MODE button to go back or to meet the waiting time to exit the setup menu.

- 4 - MAINTENANCE

4.1 MAINTENANCE AND CLEANING THE UNIT

- Make sure the area below the installation place is free from unwanted persons during setup.
- Switch off the unit, unplug the main cable and wait until the unit has cooled down.
- All screws used for installing the device and any of its parts should be tightly fastened and should not be corroded.
- Housings, fixations and installation spots (ceiling, trusses, suspensions) should be totally free from any deformation.
- The main cables must be in impeccable condition and should be replaced immediately even when a small problem is detected.
- 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.

4.2 FUSE REPLACEMENT

1. Remove the safety cap by a screwdriver.
2. Replace the blown fuse with a fuse of the exact same type and rating.
3. Install the safety cap, and reconnect power.

Fig.8

4.3 TROUBLESHOOTING

Problems	Possible causes	Checks and remedies
Fixture does not light up	• No mains supply • Dimmer fader set to 0 • All color faders set to 0 • Faulty LED • Faulty LED board	• Check the power supply voltage • Increase the value of the dimmer channels • Increase the value of the color channels • Replace the LED board • Replace the LED board
General low light intensity	• Dirty lens assembly • Misaligned lens assembly	• Clean the fixture regularly • Install lens assembly properly
Fixture does not power up	• No power • Loose or damaged power cord • Faulty internal power supply	• Check for power on power outlet • Check power cord • Replace internal power supply
Fixture does not respond to DMX	• Wrong DMX addressing • Damaged DMX cables • Bouncing signals	• Check control panel and unit addressing • Check DMX cables • Install terminator as suggested

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.