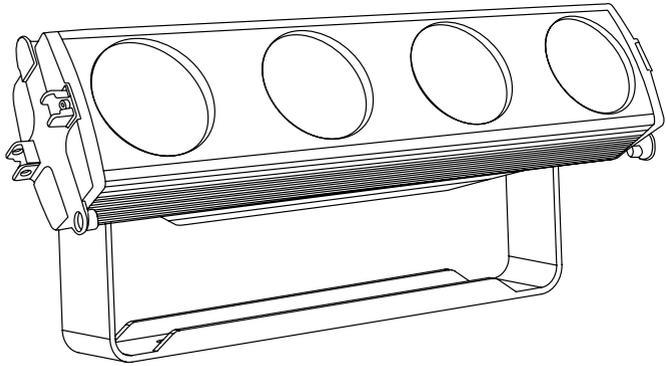


ARENACOB4HALO

LED BLINDER



USER MANUAL

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Packing content

ARENACOB4HALO
• Mounting bracket
• Power cable
• Male IP 3p to female 5p adapter
• Female IP 3p to male 5p adapter
• User manual



WARNING! Before carrying out any operations with the unit, carefully read this instruction manual and keep it with care 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 there-

fore marked with  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 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.
- 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.

- 1 - INTRODUCTION

1.1 DESCRIPTION

ARENACOB4HALO is a proper LED replacement for a traditional 4 cell DWE blinder. Each of the individually controllable 84W LED "Halo" cells delivers a powerful Tungsten-like punch that has been designed to read in even the largest environments.

Features:

- Four powerful LED "Halo" Cells with color temperature shift on dimming for true tungsten emulation
- Individual cell control for effects, with sizing and spacing matching traditional linear blinders
- IP65 housing for the most demanding environments with virtually limitless "building block" rigging system

1.2 TECHNICAL SPECIFICATIONS

Light source

- Source:3000K White COB 4x72W + Amber 16x3 W
- CT:3000 K
- CRI:>92 Ra
- Luminous Flux:(24°) 10529 lm, (40°) 13837 lm
- Lux:(24°) 6330 lux @3m
- Lux:(40°) 3364 lux @3m
- Source Life Expectancy: >50.000 h

OPTICS

- Beam Angle:(inc) 24° - (opt) 40 °
- Field Angle:42 °
- Pixel pitch:150 mm
- Lens Diameter:100 mm
- Lens Type: Dichroic parabolic reflector in combination with HD fresnel lens
- Additional Optics:40°(opt), 32° without magnetic lens
- Other:Magnetic replacement of front lens

COLOR SYSTEM

- Color Mixing: Tungsten 3000+ambershift
- CTC: Amber-shift activation by DMX

DYNAMIC EFFECTS

- Pixel Patterns: Preprogrammed dynamic and static patterns
- FX Generator: Adjustable foreground/background color, index, speed, direction
- Static Color Mode: Selection of static color
- Manual Color Mode: Manual adjustment of dimmer and strobe
- Auto Mode: Built-in programs with execution speed adjustment
- Special Features:Amber shifting for halogen DWE emulation

BODY

- Hardware On-board: On board mechanics for modular assembly of multiple panels
- Body: Sturdy die-cast aluminium body conceived for long-time durability
- Body Color: Black

CONTROL

- Protocols: DMX512, RDM

- Dmx Channels:HALO 1/4ch - STD 2/4/7ch - EXT 6/8/10 ch
- Pixel Control: Pixel2Pixel control
- RDM: RDM ready for fixture remote monitor and settings
- Display: Black OLED touch display
- Firmware Upgrade: Yes, via USB-DMX interface (UPBOX1) not included
- Master/Slave: for synchronized operation of more units linked in a chain

ELECTRONICS

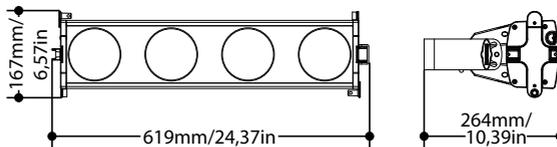
- Dimmer: Linear 0~100% electronic dimmer
- Dimmer Curves:4 Different dimming curves available
- Strobe/Shutter:1-28 Hz, electronic
- Battery Backup: Battery backup for user operation without connecting to the main power
- Operating Temperature: -10° ~ +45°
- Flicker: Flicker free operation

ELECTRICAL

- Power Supply: 100-240V – 50/60Hz
- Power Consumption (at 230V):331 W
- Power Consumption (at 120V):341 W
- Output (at 230V):11 units on a single power line
- Output (at 120V):6 units on a single power line

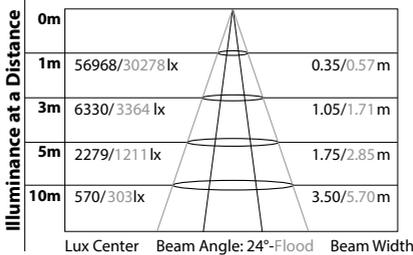
PHYSICAL

- Signal Connection: IP DMX 5p IN/OUT, IP ARTNET Neutrik IN/OUT
- Power Connection: IN Neutrik Truecon
- IP:65 for temporary outdoor application, not for fixed installation
- Cooling: Natural cooling of the peculiar chassis and to absence of fans
- Suspension And Fixing: Hanging bracket suitable for safe hanging and positioning
- Dimensions (WxHxD):619x167x265 mm
- Weight:8 kg



Technical drawing

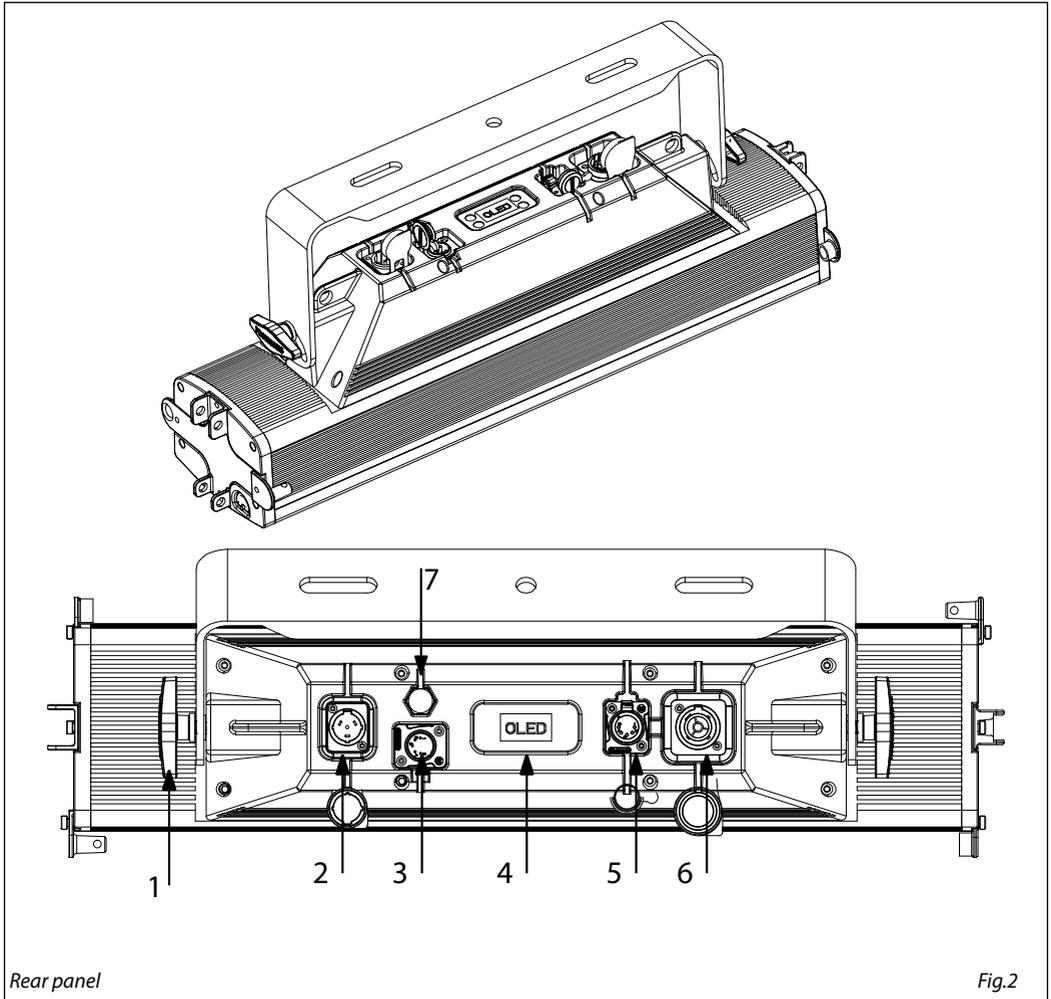
24°- Flood (without lens)



Photometric data

Fig.1

1.3 OPERATING ELEMENTS AND CONNECTIONS

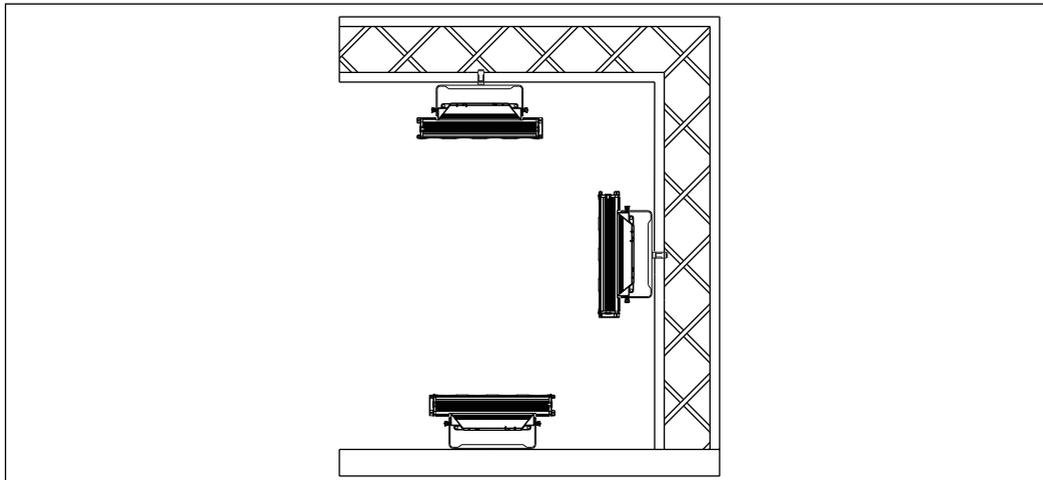


Rear panel

Fig.2

1. LOCKING KNOB for the mounting bracket
2. POWER IN (PowerCON TRUE IN): for connection to a socket (100-240V~/50-60Hz) via the supplied mains cable.
3. DMX IN (5-pole XLR):
1 = ground, 2 = DMX-, 3 = DMX+, 4 N/C, 5 N/C
4. CONTROL PANEL with display and 4 button used to access the control panel functions and manage them
5. DMX OUT (5-pole XLR):
1 = ground, 2 = DMX-, 3 = DMX+, 4 N/C, 5 N/C
6. POWER OUT (PowerCON TRUE OUT): power output for connection of multiple units in series.
7. SCREW-IN PROTECTIVE VENTS

- 2 - INSTALLATION



2.1 MOUNTING

ARENACOB4HALO may be set up on a solid and even surface. More units can also be mounted together with the included hardware (max 10 pcs for each column). 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 (2).
- 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 screw to slightly release or tighten the locking mechanism of the bracket if is necessary.

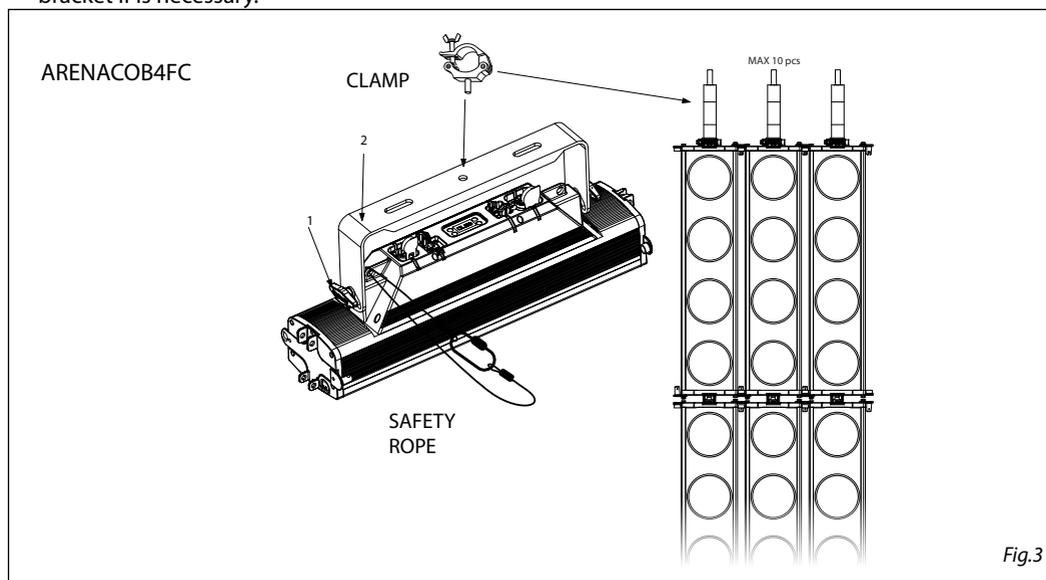


Fig.3

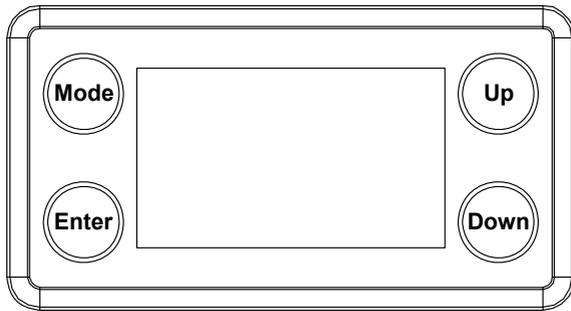
- 3 - FUNCTIONS AND SETTINGS

3.1 OPERATION

Connect the supplied main cable to a socket (100-240V~/50-60Hz). 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 black OLED display (fig.4).



MODE	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 (LEVEL 1)	(LEVEL 2)	(LEVEL 3)	DESCRIZIONE
1	DMX Address < 001 >	Address < 001>		DMX address Default: 001
2	DMX Channel < STD 7 Ch >	Channel < HALO 1 ch > < HALO 4 ch > < STD 2 ch > < STD 4 ch > < STD 7 ch > < EXT 6 ch > < EXT 8 ch > < EXT 10 ch >		DMX Channel mode HALO: halogen DWE emulation STANDARD (STD): EXTENDED (EXT): STANDARD + pixel2pixel
3	Dimmer Mode < Off >	Dimmer Mode < Off > <Dimmer1> <Dimmer2> <Dimmer3>		Dimmer curve Default: OFF
4	Static	White Amber	< 0~255 > < 0~255 >	
5	Dynamic Patterns	Pattern < Pattern 01 > < Pattern 02 > < Pattern 03 > < Pattern 04 > < Pattern 05 > < Pattern 06 > < Pattern 07 > < Pattern ... > < Pattern 19 > < Pattern 20 > < Pattern 21 > < Pattern 22 > < Pattern 23 > < Random Pattern >	Speed <1-100>	Dynamic pattern Default: random ; speed=100;
6	Key Lock < ON >	Key Lock < ON > < OFF >		Keylock Default: On Password: Up Down Up Down Enter
7	Temperature	LED1 xx°C LED2 xx°C LED3 xx°C LED4 xx°C		LEDs temperature

8	Master/Slave	< Master > < Slave >		Default: Slave
9	Back Light	Back Light < On > < 10 s > < 20 s > < 30 s >		Default: 30 s ON (display light always On) 10 s, 20 s, 30 s
10	Mapping Rotation < OFF >	Mapping Rotation < ON > < OFF >		Invert LED order Default: OFF
11	Information	Fixture Hours Version UID:	<9999H> <V1.0> 15D00206****	Fixture informations
12	Reset Factory	Reset Factory <NO > < YES >		Reset the fixture

3.4 DIMMER

- To enter dimmer mode and choose to simulate different dimming curves, press the MODE button repeatedly until the display shows **Dimmer Mode**, then press the ENTER button.
- Press the MODE button repeatedly until **Dimmer Mode** shows, and press ENTER button to accept.
- Use the UP/DOWN button to select a dimmer curve **Off - Dimmer1 - Dimmer2 - Dimmer3**.
- Press ENTER button to confirm the selection.
- Press the MODE button to go back or to meet the waiting time to exit from the setup menu automatically.

3.5 BACK LIGHT

- To activate backlight display press the MODE button so many times until shows **Back Light**, and press the ENTER button to confirm.
- Press the UP/DOWN button to select **On - 10s - 20s - 30s**. Press ENTER button to confirm the selection.
- Press the MODE button to go back or to meet the waiting time to exit from the setup menu automatically.

3.6 FIXTURE INFORMATION

1. Press the MODE button so many times until shows **Information**, and then press ENTER button.
2. Use UP/DOWN button to select: **Fixture Hours - Version. - UID**
3. Press ENTER button to confirm the selection.
4. Press the MODE button to go back or to meet the waiting time to exit from the setup menu automatically.

Fixture Hours

This option shows the user the amount of hours the ARENACOB4HALO has been in use throughout its lifetime. Select **Fixture Hours**.

Version

This option shows the user the software version currently installed in the unit. Select **Version**.

UID

This option shows the RDM identification number (see paragraph 3.23)

3.7 KEY LOCK

Enter the **Key Lock** mode to select whether the access password is on or off.

- Press the MODE button so many times until show **Key Lock** and press the ENTER button to confirm.
- Use UP/DOWN button to select: **ON** or **OFF**.
- Press ENTER button to confirm the selection.

When the fixture is set as pass ON, after 30 seconds or turn on the fixture next time, the fixture will need an access password to enter the display menu control.

NOTE - The factory access password is UP + DOWN + UP + DOWN (press ENTER to confirm the access).

3.8 AUTO SHOW

If no DMX control signal is present at the DMX INPUT, the unit independently runs through its show programme provided that the blackout mode is switched off:

- Press the MENU button so many times until the display shows Dynamic Patterns, then press the ENTER button.
- Press the UP/DOWN button to switch between the preprogrammed Dynamic Pattern. The unit will operate in show mode.
- Using the UP/DOWN button to select the desired run speed slow-fast 1-100.
- Press the ENTER button to save the setting.

IMPORTANT: Dynamic patterns are fully pre-programmed and will not be altered by changes.

3.9 STATIC MODE

This fixture has the ability to accept custom static color settings. Access these chases via the control panel on the back of the fixture.

- Press the MENU button so many times until the display shows Static, then press the ENTER button.
- Select Fixed Color through the UP/DOWN buttons, then press ENTER.
- Set the WHITE and AMBER color values through the UP/DOWN buttons, then press ENTER.
- Press the MENU button to go back or to meet the waiting time to exit the setup menu.

3.10 MASTER/SLAVE MODE

This mode allows you to link up multiple units ARENACOB4HALO online without a controller. The first unit will be set as the master and the others function as slaves with the same effect.

- Press the MODE button so many times until the display shows [Master/Slave].
- Press the ENTER button to confirm.
- Press the UP/DOWN button and select [Slave] to set the drive as a slave.

- Press the UP/DOWN button and select [Master] to set the drive as a master.
- Press the ENTER button for save the setting.

3.11 LINKING

- Connect the DMX OUT of the master unit via 5-pole XLR cable to the DMX IN of the first slave unit.
- 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.

3.12 DMX MODE

- Press the MENU button so many times until show Dmx Channel and press ENTER to confirm.
- Press the UP/DOWN button to select the desired DMX mod.
- Press ENTER button to store.
- Press the MENU button to go back or to meet the waiting time to exit the setup menu

3.13 DMX ADDRESSING

- Press the MENU button so many times until show Dmx Address and press ENTER to confirm.
- Press the UP/DOWN button to select the desired DMX address 001 - 512. Press and hold to scroll quickly.
- Press ENTER button to store.
- Press the MENU button to go back or to meet the waiting time to exit the setup menu

3.14 RDM - Remote Device Management

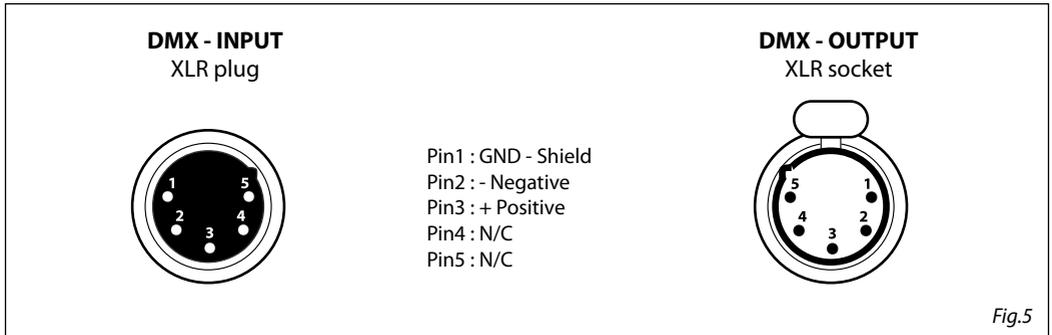
With this function you can call up various submenus via RDM.

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 1 and 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.

3.15 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:



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.

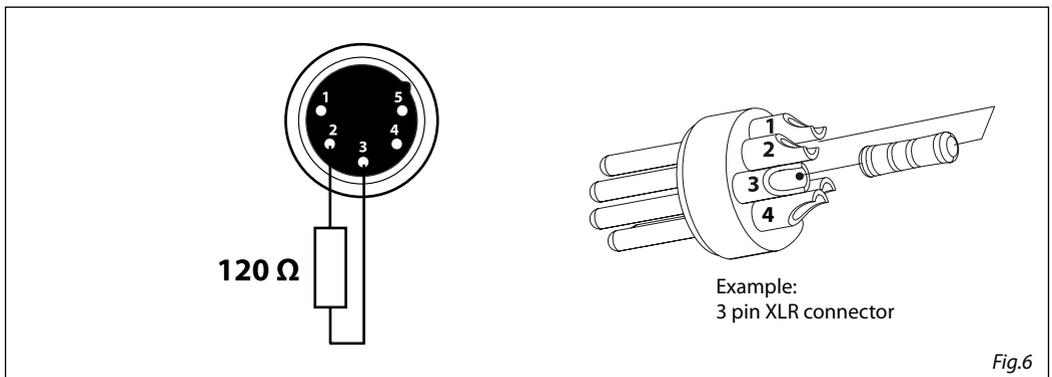
For those connections the use of balanced microphone cable is not recommended because it cannot transmit control DMX data reliably.

- 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.

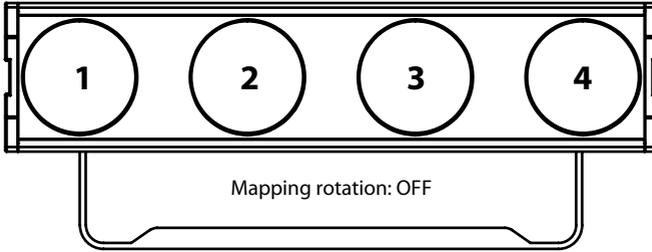
3.16 CONSTRUCTION OF THE DMX TERMINATION

The termination avoids the risk of DMX 512 signals being reflected back along the cable when they reach 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.



3.19 DMX CONTROL



HALO 1ch		
MODE 1 Ch	FUNCTION	DMX Value
1	DIMMER 0~100%	000 - 255

In HALO mode, the fixture emulates dimmer curve and color as an halogen DWE.

HALO 4ch		
MODE 4 Ch	FUNCTION	DMX Value
1	PIXEL 1 Dimmer 0~100%	000 - 255
2	PIXEL 2 Dimmer 0~100%	000 - 255
3	PIXEL 3 Dimmer 0~100%	000 - 255
4	PIXEL 14 Dimmer 0~100%	000 - 255

STANDARD - STD 2ch		
MODE STD 2 Ch	FUNCTION	DMX Value
1	WHITE 0~100%	000 - 255
2	AMBER SHIFT OFF ON	000 - 127 128 - 255

STANDARD - STD 4ch		
MODE STD 4 Ch	FUNCTION	DMX Value
1	DIMMER 0~100%	000 - 255
2	WHITE 0~100%	000 - 255
3	AMBER SHIFT OFF ON	000 - 127 128 - 255
4	STROBE No function Strobe Slow to Fast No function Random strobe Slow to Fast No function	000 - 030 031 - 100 101 - 130 131 - 200 201 - 255

STANDARD - STD 7ch		
MODE STD 7 Ch	FUNCTION	DMX Value
1	DIMMER 0~100%	000 - 255
2	WHITE 0~100%	000 - 255
3	AMBER SHIFT OFF ON	000 - 127 128 - 255
4	STROBE No function Strobe Slow to Fast No function Random strobe Slow to Fast No function	000 - 030 031 - 100 101 - 130 131 - 200 201 - 255
5	Halo DWE Dimmer 0~100%	000 - 255
	DYNAMIC PATTERNS No Function	000 - 010
	Pattern 1	011 - 020
	Pattern 2	021 - 030
	Pattern 3	031 - 040
	Pattern 4	041 - 050
	Pattern 5	051 - 060
	Pattern 6	061 - 070
	Pattern 7	071 - 080
	Pattern 8	081 - 090
	Pattern 9	091 - 100
	Pattern 10	101 - 110
	Pattern 11	111 - 120
	Pattern 12	121 - 130
	Pattern 13	131 - 140
	Pattern 14	141 - 150
	Pattern 15	151 - 160
	Pattern 16	161 - 170
	Pattern 17	171 - 180
	Pattern 18	181 - 190
	Pattern 19	191 - 200
	Pattern 20	201 - 210
	Pattern 21	211 - 220
	Pattern 22	221 - 230
Pattern 23	231 - 240	
Random Pattern	241 - 255	

6	PATTERNS SPEED Static indexing Speed slow to fast TBD / Not used	000 - 029 030 - 140 141 - 255
7	DIMMER FADE Preset dimmer speed from display menu Dimmer curve Fast to Slow	000 - 000 001 - 255

EXTENDED - EXT 6ch			
MODE EXT 6 Ch	FUNCTION		DMX Value
1	DIMMER 0~100%		000 - 255
2	PIXEL1	WHITE 0~100%	000 - 255
3	PIXEL2	WHITE 0~100%	000 - 255
4	PIXEL3	WHITE 0~100%	000 - 255
5	PIXEL4	WHITE 0~100%	000 - 255
6	AMBER SHIFT OFF ON		000 - 127 128 - 255

EXTENDED - EXT 8ch		
MODE EXT 8 Ch	FUNCTION	DMX Value
1	DIMMER 0~100%	000 - 255
2	PIXEL1 WHITE 0~100%	000 - 255
3	PIXEL2 WHITE 0~100%	000 - 255
4	PIXEL3 WHITE 0~100%	000 - 255
5	PIXEL4 WHITE 0~100%	000 - 255
6	AMBER SHIFT OFF ON	000 - 127 128 - 255
7	STROBE No function Strobe Slow to Fast No function Random strobe Slow to Fast No function	000 - 030 031 - 100 101 - 130 131 - 200 201 - 255
8	DIMMER FADE Preset dimmer speed from display menu Dimmer curve Fast to Slow	000 - 000 001 - 255

EXTENDED - EXT 10ch		
MODE EXT 10 Ch	FUNCTION	DMX Value
1	DIMMER 0~100%	000 - 255
2	PIXEL1 WHITE 0~100%	000 - 255
3	PIXEL2 WHITE 0~100%	000 - 255
4	PIXEL3 WHITE 0~100%	000 - 255
5	PIXEL4 WHITE 0~100%	000 - 255
6	AMBER SHIFT OFF ON	000 - 127 128 - 255

EXTENDED - EXT 10ch		
MODE EXT 10 Ch	FUNCTION	DMX Value
7	STROBE No function Strobe Slow to Fast No function Random strobe Slow to Fast No function	000 - 030 031 - 100 101 - 130 131 - 200 201 - 255
8	DIMMER FADE Preset dimmer speed from display menu Dimmer curve Fast to Slow	000 - 000 001 - 255
9	DYNAMIC PATTERNS No Function Pattern 1 Pattern 2 Pattern 3 Pattern 4 Pattern 5 Pattern 6 Pattern 7 Pattern 8 Pattern 9 Pattern 10 Pattern 11 Pattern 12 Pattern 13 Pattern 14 Pattern 15 Pattern 16 Pattern 17 Pattern 18 Pattern 19 Pattern 20 Pattern 21 Pattern 22 Pattern 23 Random FX	000 - 010 011 - 020 021 - 030 031 - 040 041 - 050 051 - 060 061 - 070 071 - 080 081 - 090 091 - 100 101 - 110 111 - 120 121 - 130 131 - 140 141 - 150 151 - 160 161 - 170 171 - 180 181 - 190 191 - 200 201 - 210 211 - 220 221 - 230 231 - 240 241 - 255
10	PATTERNS SPEED Static indexing Speed slow to fast TBD / Not used	000 - 029 030 - 140 141 - 255

- 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 TROUBLESHOOTING

Problems	Possible causes	Checks and remedies
Fixture does not light up	<ul style="list-style-type: none"> • No mains supply • Dimmer fader set to 0 • All color faders set to 0 • Faulty LED • Faulty LED board 	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Dirty lens assembly • Misaligned lens assembly 	<ul style="list-style-type: none"> • Clean the fixture regularly • Install lens assembly properly
Fixture does not power up	<ul style="list-style-type: none"> • No power • Loose or damaged power cord • Faulty internal power supply 	<ul style="list-style-type: none"> • Check for power on power outlet • Check power cord • Replace internal power supply
Fixture does not respond to DMX	<ul style="list-style-type: none"> • Wrong DMX addressing • Damaged DMX cables • Bouncing signals 	<ul style="list-style-type: none"> • 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.

