

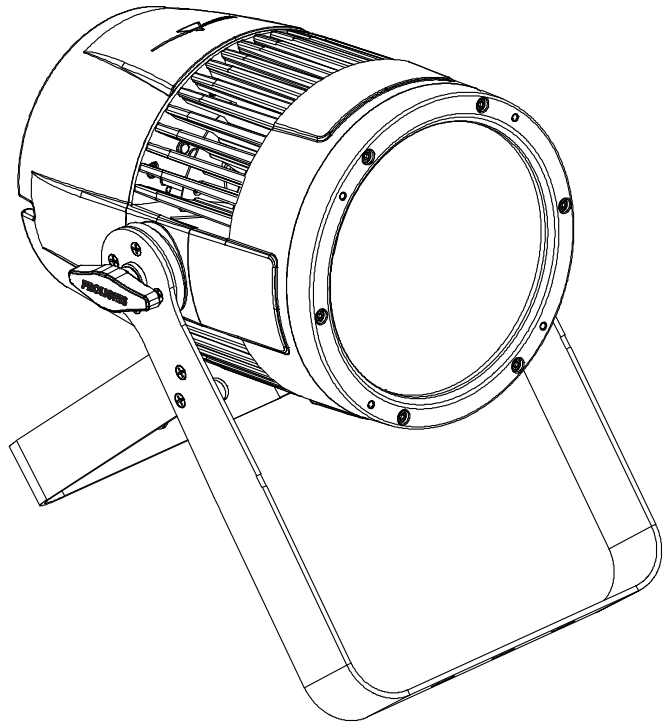
STORM

TECHNICAL SERVICES FOR
EVENTS, THEATRE, MUSIC,
EXHIBITION, FILM & TV

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STUDIOCOBPLUSFC

DIFFUSED LIGHT PROJECTOR



MANUALE UTENTE
USER MANUAL

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Warranty

Packing content

- STUDIOCOBPLUSFC
- Mount bracket
- Power cable
- 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 therefore marked with **CE**.
- 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 40 °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.

GENERAL INFORMATION

Shipments and claims

The goods are sold "ex works" and always travel at the risk and danger of the distributor. Eventual damage will have to be claimed to the freight forwarder. Any claim for broken packs will have to be forwarded within 8 days from the reception of the goods.

Warranty and returns

The guarantee covers the fixture in compliance with existing regulations. You can find the full version of the "General Guarantee Conditions" on our web site www.musiclights.it. Please remember to register the piece of equipment soon after you purchase it, logging on www.musiclights.it. The product can be also registered filling in and sending the form available on your guarantee certificate. For all purposes, the validity of the guarantee is endorsed solely on presentation of the guarantee certificate. Music & Lights will verify the validity of the claim through examination of the defect in relation to proper use and the actual validity of the guarantee. Music & Lights will eventually provide replacement or repair of the products declining, however, any obligation of compensation for direct or indirect damage resulting from faultiness.

- 1 - INTRODUCTION

1.1 DESCRIPTION

The StudioCOB PLUS family takes the popular StudioCOB and raises it to an even more advanced level. The housing is designed not only to be IP65 rated, but also to deliver silent operation.

The STUDIOCOBPLUSFC features a new RGBW COB LED with an unbelievably wide color spectrum, full white CT range, and incredibly manages to deliver nearly 40% more lumens than a standard StudioCOB. With an even beam, single shadow, flexible lens options, and fully functional barndoors, the STUDIOCOB-PLUSFC is the ultimate workhorse LED Par.

1.2 TECHNICAL SPECIFICATIONS

Light source

- Source: R: 2.6x12W, G:3.6x10W, B:3.5x8W, W:3.25x10W, RGBW LEDs
- Luminous Flux:(18°) 4261lm, (38°) 3999 lm
- Lux:(18°) 3190 lux @3m Full
- Source Life Expectancy: >50.000 h

Optics

- Beam Angle:(on board) 18°, (inc.) 38 °
- Field Angle:36°(on board); 63 (inc.) °
- Lens Type: Dichroic parabolic reflector in combination with HD fresnel lens
- Additional Optics: flood (without lens), 38° (inc)

Color System

- Color Mixing: RGBW/FC
- CTC: CTC control through independent DMX channel
- White Presets:2000~10000 K
- Color Wheel: Virtual color wheel with presets

Body

- Body: Sturdy die-cast aluminium body conceived for long-time durability
- Body Color: Black

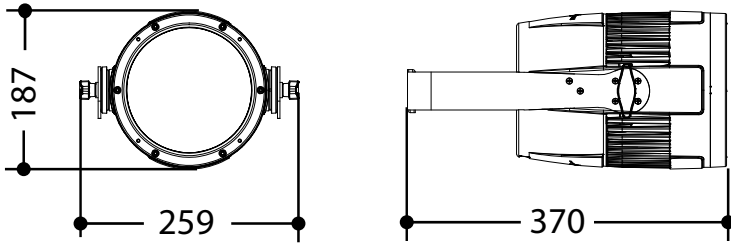
Electronics and features

- Static Color Mode: Selection of static color
- Manual Color Mode: Manual adjustment of color
- Auto Mode: Built-in programs with execution speed adjustment
- Protocols: DMX, RDM
- Dmx Channels:4/6/10 ch
- 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
- 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: -20/45°

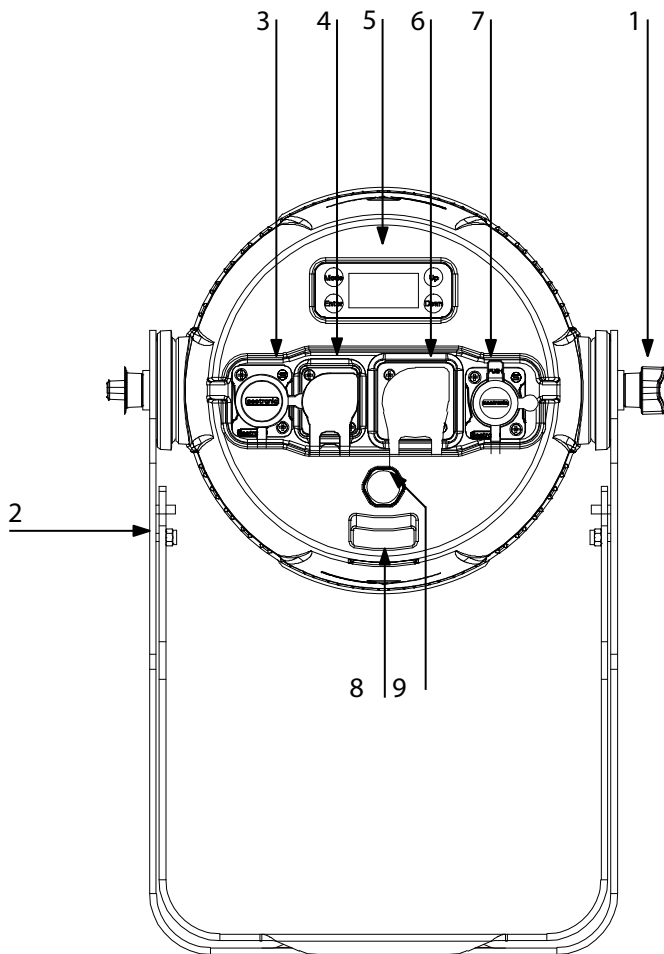
- Flicker: Flicker free operation
- Selectable PWM: 600~25K Hz

Structure and Power supply

- Power Supply: 100-240V – 50/60Hz
- Power Consumption (at 230V):142 W
- Power Consumption (at 120V):142 W
- Power Output (at 230V):12 units on a single power line
- Signal Connection: 5p IP in/out
- Power Connection: Seetronic Powerkon IP65 in/out
- IP:65 Protective vent to prevent condensation, dust, compensate pressure
- Cooling: Forced air with low noise fan, user-definable levels
- Suspension And Fixing: Double hanging bracket suitable for safe hanging and for floor positioning
- Dimensions (WxHxD):259x187x370 mm
- Weight:4.825 Kg

*Technical drawing**Fig.1*

1.3 OPERATING ELEMENTS AND CONNECTIONS



Rear panel

Fig.2

- | | |
|--|--|
| <p>1. KNOB for the mounting bracket</p> <p>2. MOUNTING BRACKET</p> <p>3. DMX IN (5-pole XLR):
1 = massa, 2 = DMX -, 3 = DMX +, 4 N/C, 5 N/C</p> <p>4. POWER IN (PowerCON TRUE IN):
for connection to a socket (100-240V~/50-60Hz) via the supplied mains cable</p> <p>5. CONTROL PANEL with display and 4 touch buttons used to access the control panel functions and manage them</p> | <p>6. POWER OUT: connect to supply power to the next unit</p> <p>7. DMX OUT (5-pole XLR):
1 = ground, 2 = DMX-, 3 = DMX+, 4 N/C, 5 N/C</p> <p>8. SAFETY HOLE to attach safety cable</p> <p>9. GORE: GORE membrane vents for pressure and temperature balance</p> |
|--|--|

- 2 - INSTALLATION

2.1 MOUNTING

STUDIOCOBPLUSFC 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 (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 knob to slightly release or tighten the locking mechanism of the bracket if is necessary (1).

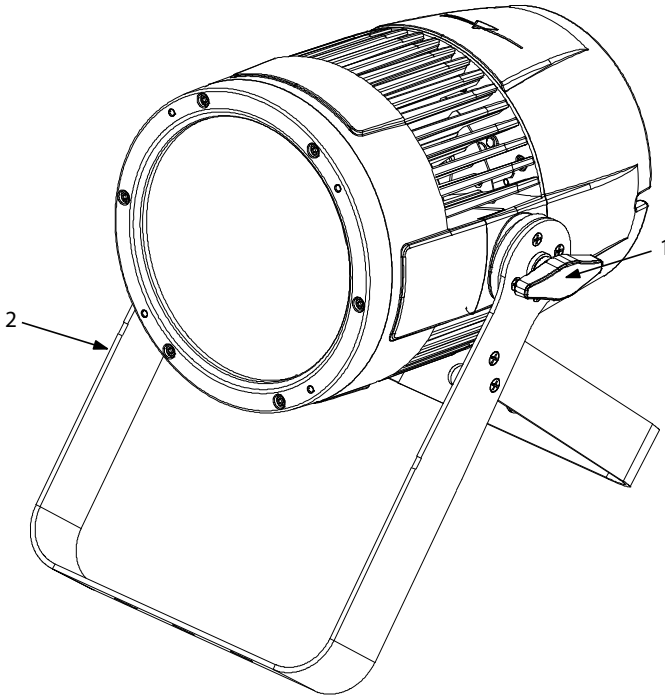


Fig.3

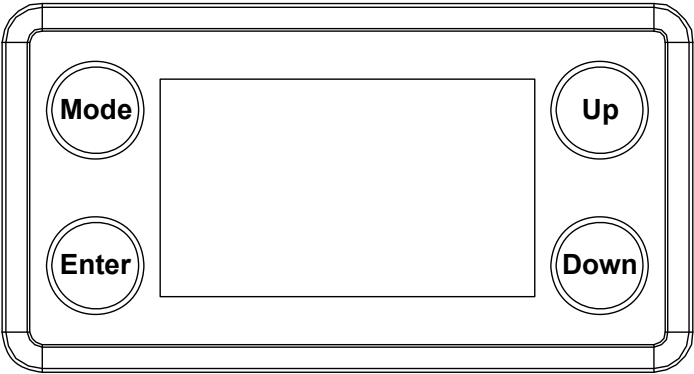
- 3 - FUNCTIONS AND SETTINGS

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 touch buttons located directly underneath the black OLED display (fig.4).



MODE (MENU)	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	DMX Address ⇒	1 - 512	Default: 001
2	DMX Channel ⇒	4 Ch 6 Ch 10 Ch	Default: 10 ch
3	Static ⇒	Fixed Color ⇒ R RW ⇒ G GW ⇒ B BW ⇒ W RGW ⇒ GB RBW ⇒ RB GBW ⇒ RG RGBW ⇒ RGB	Default: RGBW
		⇒ White Presents ⇒ 3000 K ⇒ 4000 K ⇒ 5000 K ⇒ 6000 K ⇒ 7000 K ⇒ 8000 K ⇒ 9000 K ⇒ 10000 K	Default: 3000 K
		⇒ Manual Color ⇒ Red (0-255) ⇒ Green (0-255) ⇒ Blue (0-255) ⇒ White (0-255)	Default: RGBW=255
4	Auto Show ⇒	Auto 1 ⇒ Speed (0-100) Auto 2 ⇒ Speed (0-100) Auto 3 ⇒ Speed (0-100) Auto 4 ⇒ Speed (0-100) Auto 5 ⇒ Speed (0-100)	Default: AUTO1 SPEED=100
5	Master/Slave ⇒	Master Slave	Default: Slave
6	Dimmer Mode ⇒	Off Dimmer 1 Dimmer 2 Dimmer 3	Default: Off

7	White Balance	⇒	Off		Default: Off
		⇒	Manual	Red (125-255) Green (125-255) Blue (125-255) White (125-255)	
8	LED Frequency	⇒	600 Hz 1200 Hz 2000 Hz 4000 Hz 25 KHz		Default: 1200Hz
9	Fan Mode	⇒	Auto Speed High Speed		Default: Auto Speed
10	Back Light	⇒	On 10 S 20 S 30 S		Default: On
11	Key Lock	⇒	On Off		Default: On
12	Information	⇒	Fixture Hours	⇒ 9999h	
		⇒	Version	⇒ V1.0	
			UID	⇒ 15D00207****	
13	Reset Factory	⇒	NO YES		

3.4 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 **Auto Show**, then press the ENTER button.
- Press the UP/DOWN button to switch between the show **Auto 1 - Auto 5**. The unit will operate in show mode.
- Using the UP/DOWN button to select the desired run speed slow-fast **0-100**.
- Press the ENTER button to save the setting.

IMPORTANT: Programs **Auto 1 - 5** are fully pre-programmed and will not be altered by changes.

3.5 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 colors **R, G, B, W, GB, RB, RG, RGB, RW, GW, BW, RGW, RBW, GBW, RGBW** 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.

3.6 WHITE PRESETS MODE

The white presets mode allow you to choose a preprogrammed white color temperature.

- Press the MENU button so many times until the display shows **Static**, then press the ENTER button.
- Select **White Presets** through the UP/DOWN buttons, then press ENTER.
- Choose the white color temperature 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.

3.7 MANUAL MODE

This mode allows to combine the colors red, green, blue and white (**R, G, B, W**).

- Press the MENU button so many times until the display shows **Static**, then press ENTER.
- Select **Manual Color** through the UP/DOWN buttons, then press ENTER.
- Select the color **R, G, B, W** through the UP/DOWN buttons, then press ENTER.
- Using UP/DOWN buttons, select the desired color value **000 - 255**.
- Press ENTER button to continue to the next color **R, G, B, W**.
- Continue until the desired mix is obtained.
- Press the button MENU to go back or to meet the waiting time to exit the setup menu.

3.8 MASTER/SLAVE MODE

This mode will allow you to link up the units together without a controller. Choose a unit to function as the Master. The unit must be the first unit in line; other units will work as slave.

- Press the MENU button so many times until the display shows **Master/Slave**, then press ENTER.
- Using UP/DOWN buttons, select the desired mode and then press ENTER.
- Press the button MENU to go back or to meet the waiting time to exit the setup menu
- Use standard DMX cables to daisy chain your units together via the DMX connector on the rear of the units. For longer cable runs we suggest a terminator at the last fixture (see page 13).
- Set on master fixture the desired program (see section 3.4).
- Set the slaves to the same DMX modes.

3.9 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.

3.10 DMX MODE

- Press the MENU button so many times until show **Dmx Channel** and press ENTER to confirm.
- Press the button UP/DOWN to select the desired DMX mode **4 Ch, 6 Ch o 10 Ch**. Press ENTER button to store.
- Press the MENU button to go back or to meet the waiting time to exit the setup menu.

The tables on page 14 indicate the operating mode and DMX value.

3.11 DMX ADDRESSING

- Press the MENU button so many times until show **Dmx Address** and press ENTER to confirm.
- Press the button UP/DOWN 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.

To able to operate the STUDIOCOBPLUSFC 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 STUDIOCOBPLUSFC. 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
4	33	33-36	37	41	45
6	33	33-38	39	45	51
10	33	33-42	43	53	63

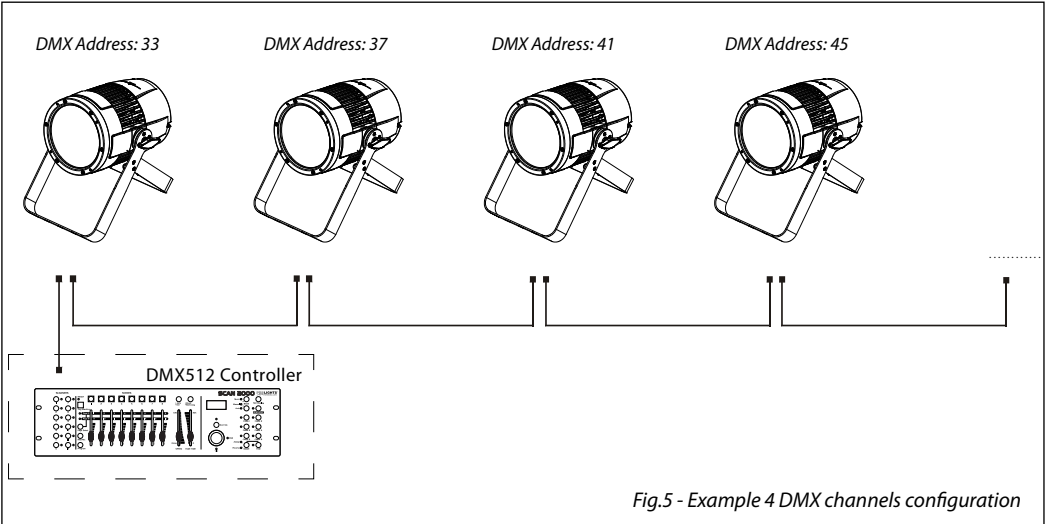
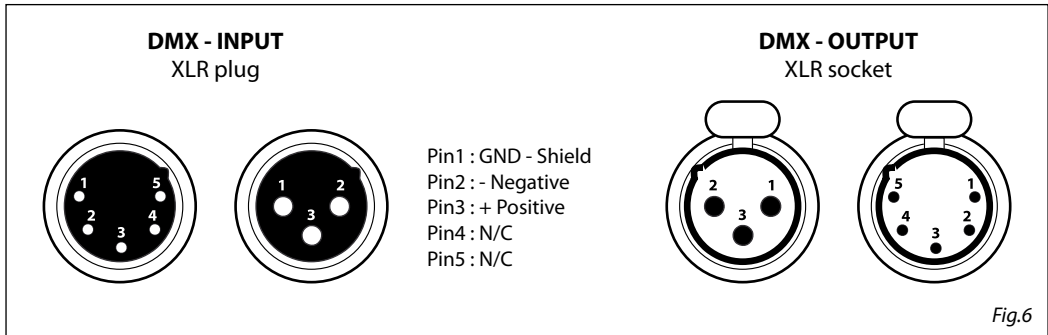


Fig.5 - Example 4 DMX channels configuration

3.12 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.

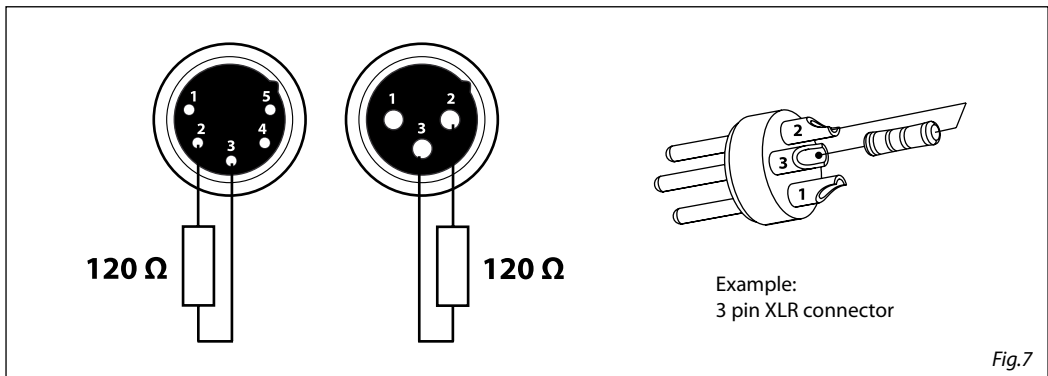
For those connections the use of balanced microphone cable is not recommended because it cannot transmit control DMX data reliably.

- 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.

3.13 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.



3.14 DMX CONTROL

4 CHANNELS

MODE 4 Ch	FUNCTION	DMX Value
1	RED 0~100%	000 - 255
2	GREEN 0~100%	000 - 255
3	BLUE 0~100%	000 - 255
4	WHITE 0~100%	000 - 255

6 CHANNELS

MODE 6 Ch	FUNCTION	DMX Value
1	DIMMER 0~100%	000 - 255
2	RED 0~100%	000 - 255
3	GREEN 0~100%	000 - 255
4	BLUE 0~100%	000 - 255
5	WHITE 0~100%	000 - 255
6	STROBE No function Strobe Slow to Fast No function Random strobe effect slow to fast No function	000 - 030 031 - 100 101 - 130 131 - 200 201 - 255

10 CHANNELS

MODE 10 Ch	FUNCTION	DMX Value
1	DIMMER 0~100%	000 - 255
2	RED 0~100%	000 - 255
3	GREEN 0~100%	000 - 255
4	BLUE 0~100%	000 - 255
5	WHITE 0~100%	000 - 255
6	STROBE No function Strobe Slow to Fast No function Random strobe effect slow to fast No function	000 - 030 031 - 100 101 - 130 131 - 200 201 - 255
7	COLOR FUNCTION No Function Color Function White presents Color macro	000 - 010 011 - 085 086 - 170 171 - 255
8	COLOR PRESENTS RGB 100%, 0~100%, 0% RGB 0~100%, 100%, 0% RGB 0%, 100%, 0~100% RGB 0%, 0~100%, 100% RGB 0~100%, 0%, 100% RGB 100%, 0%, 0% ~ 100% RGB 100%, 0% ~ 100%, 0% ~ 100% RGB 0% ~ 100%, 0% ~ 100%, 100% RGBW 100%, 100%, 100%, 100%	000 - 028 029 - 056 057 - 084 084 - 112 113 - 140 141 - 168 169 - 196 197 - 224 225 - 255
	WHITE PRESENTS RGB W 2000K RGB W 2000K ~ 3000K RGB W 3000K ~ 4000K RGB W 4000K ~ 5000K RGB W 5000K ~ 6000K RGB W 6000K ~ 7000K RGB W 7000K ~ 8000K RGB W 8000K ~ 9000K RGB W 9000K ~ 10000K	000 029 - 040 041 - 070 071 - 100 101 - 130 131 - 160 161 - 190 191 - 220 221 - 255

10 CHANNELS

MODE	FUNCTION	DMX Value
10 Ch		
8	COLOR MACRO	
	Auto Program 1	000 - 060
	Auto Program 2	061 - 110
	Auto Program 3	111 - 160
	Auto Program 4	161 - 210
	Auto Program 5	211 - 255
9	COLOR MACRO SPEED	
	Color macro speed slow to fast	000 - 255
10	DIMMER FADE	
	Dimmer fade from fast to slow	
	Slow is the same of DIMMER3 (the slowest)	000 - 255

3.15 DIMMER

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

3.16 BACK LIGHT

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

3.17 FIXTURE INFORMATION

1. Press the MENU 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 MENU 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 STUDIOCOBPLUSFC 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)

3.18 LED FREQUENCY

- To adjust the frequency of the LEDs, press the MENU button repeatedly until the display shows **LED Frequency**, and then press the ENTER button.
- Select the frequency **600 Hz - 25 KHz** using the UP/DOWN buttons.
- To confirm, press the ENTER key.
- Press the MENU button to go back or wait a few seconds to exit the setup menu.

3.19 FAN MODE

To set the rotation speed of the fans refer to the following guide:

- Press the MENU key repeatedly until the display shows **Fan Mode**, then press the button ENTER.
- Select by pressing UP/DOWN one of the following options: **Auto - High**. It is possible choose the speed of rotation of the fans from: fast **High** and automatic **Auto**.
- Press the MENU button to go back or wait a few seconds to exit the setup menu.

3.20 WHITE BALANCE

Enter the White balance to adjust the **Red, Green, Blue and White** parameter to make different whites.

- Press the button MENU so many times until shows **White Balance**, and press the button ENTER to confirm.
- Select the color **R, G, B, W** through the buttons UP/DOWN, then press the button ENTER.
- Using UP/DOWN button, select the desired color value **125 - 255**.
- Press ENTER button to continue to the next color **R, G, B, W**.
- Continue until the desired mix is obtained.
- Press the MENU button to go back or to meet the waiting time to exit the setup menu.

3.21 KEY LOCK

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

- Press the button MODE so many times until show **Key Lock** and press the button ENTER 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).

3.22 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.

- 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	<ul style="list-style-type: none">• Clean the fixture regularly
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.

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