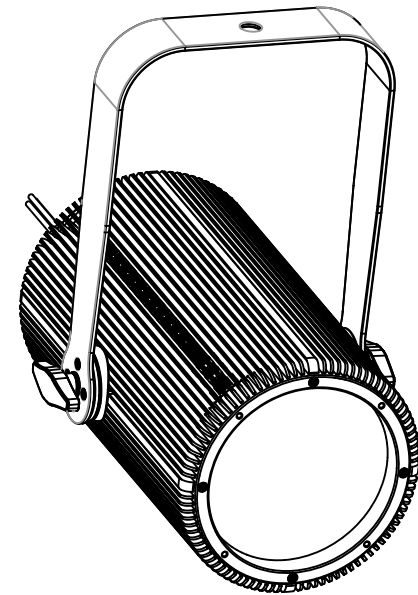




# Houselight FC

RGBAL "Full-Color" LED House Light

# SHOWPRO





**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.

### 3.14 FIXTURE SETTINGS

It is possible to change the following parameters:

#### Dimmer Mode

- Press the MENU button until **Dimmer Mode** is displayed, then press ENTER.
- Press UP/DOWN buttons to select **Off - Dimmer 1 - Dimmer 2 - Dimmer 3**.
- Press ENTER button to store, then press MENU to return to main menu.

#### BackLite

- To adjust the settings of the backlit menu display, press MENU until **Back Light** is shown.
- Press ENTER and then use UP/DOWN to select On or auto display off delay **On - 10S - 20S - 30S**
- Press ENTER button to confirm the selection, then press MENU to return to main menu.

#### 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, then press MENU to return to main menu

#### White Balance

- To adjust the white balance, press the MENU button repeatedly until the display shows **White Balance**, and then press the ENTER button.
- Select **Manual** and use UP/DOWN to select **Red, Green, Blue, Amber or Lime**
- Press ENTER, us UP/DOWN to set values, ENTER again to confirm.

### 3.15 FIXTURE INFORMATION

#### Fixture Hours

Show the fixture working hours.

- Press the button MENU so many times until shows **Information**. Press the button ENTER to confirm
- Using the button UP/DOWN to select **Fixture Hours**, then press the button ENTER to confirm
- Then the display will show the working hours. Press MENU to return to main menu

#### Version

Show the fixture firmware version.

- Press the button MENU so many times until shows **Information**
- Select through the button UP/DOWN the **Version** menu voice.
- The display will show the firmware data. Press MENU to return to main menu

#### Wireless Setting

- To activate the wireless module's receive function, press the MENU button repeatedly until the display shows **Receive On/Off**, and then press the ENTER button and choose **On** or **Off**.
- To reset the wireless module, press the MENU button repeatedly until the display shows **Receive Reset**, and then press the ENTER button and choose **Yes**
- Press the MENU button to go back or wait a few seconds to exit the setup menu.

#### Factory Reset

- To initiate the Reset function, press the MENU button repeatedly until **Factory Reset** is displayed, then choose **Yes** and press ENTER.
- Press the MENU button to go back or wait a few seconds to exit the setup menu.

#### Emergency Mode

- When Emergency Mode is ON, no action is taken if the DMX signal is lost.
- When Emergency Mode is OFF, the fixture will turn on when DMX signal is lost.

3.13 PHOTOMETRICS

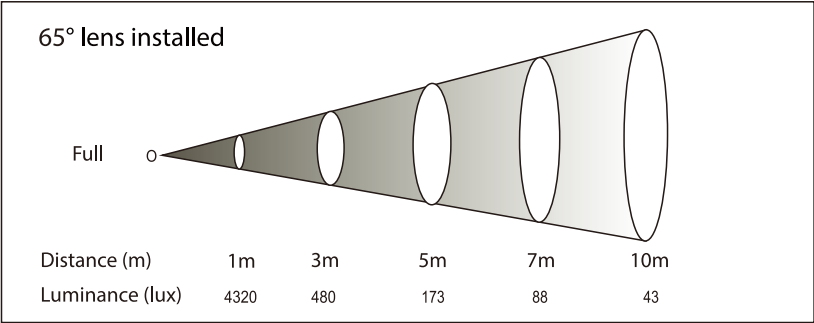
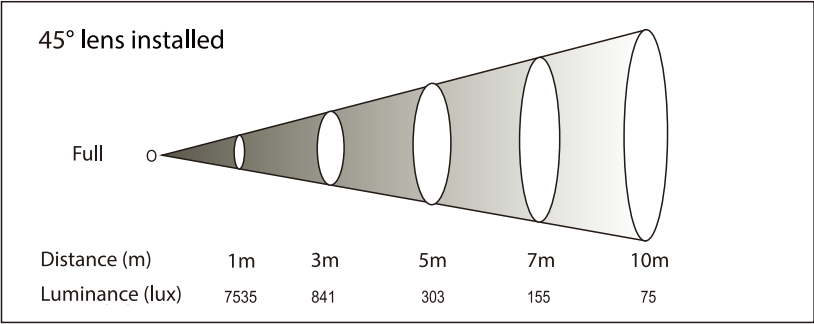
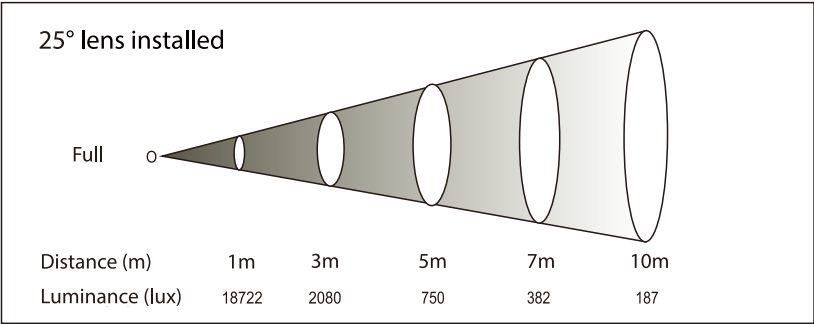


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<b>Packing content</b>	Houselight FC <ul style="list-style-type: none"><li>• Mounting bracket</li><li>• 25°, 45°, and 65° Lenses</li><li>• User manual</li></ul>
------------------------	---

## INTRODUCTION

Houselight FC is an RGBAL "Full-Color" LED House Light with exceptional color mixing suitable for live and broadcast applications.

## FEATURES

- Silent operation due to advanced convection cooled design
- Adjustable PWM frequency ensures flicker-free, camera-safe performance
- Removable yoke and permanent cable anchor for pendant suspension mounting
- Three interchangeable lenses to match beam angle to mounted height
- Virtual color wheel & 2800K ~ 6500K color temp presets
- 4.5 meter hardwired power lead
- DMX, W-DMX & RDM control

## SPECIFICATIONS

Light Source:	150W RGBAL COB Array
White Color Temperature:	2800K ~ 6500K
Lens options:	25°, 45°, 65°
Strobe:	0-25Hz and strobe FX macros
Dimming:	4 dimming curve modes
Control:	DMX, RDM, W-DMX
DMX Channels:	3 / 5 / 7 / 10 / 12 / 13 / 15 / HSV
Display:	OLED menu display
Mains:	100 - 240 VAC, 50/60 Hz
Consumption:	145W
Power connections:	Hard-wired
Data connections:	5-pin XLR and terminal blocks for DMX
Housing:	White or Black
IP rating:	IP20
Cooling:	Convection (fanless)
Dimensions (diameter):	170 mm
Length:	311 mm
Weight:	8.1 KG

### 3.12 DMX CONTROL

#### 12-CHANNEL MODE

12CH	Function	Value	Percent/Setting
1	Dimmer	000-255	0~100%
2	Red	000-255	0~100%
3	Green	000-255	0~100%
4	Blue	000-255	0~100%
5	Amber	000-255	0~100%
6	Lime	000-255	0~100%
7	Strobe	000-010 011-255	No function Strobe slow to fast
8	Color Macro	000-512	See Page 15 (Color Macro channel definition)
9	Color Temperature	000-512	See Page 15 (Color Temperature channel definition)
10	Auto programs	000-010 011-060 061-110 111-160 161-210 211-255	No Function Auto Program 1 Auto Program 2 Auto Program 3 Auto Program 4 Auto Program 5 ( Auto Program 1-4 )
11	Auto speed	000-255	Auto speed slow to fast
12	Dimmer Speed Mode	000-051 052-101 102-152 153-203 204-255	No function Dimmer speed mode off (Hold 3S, override menu and change) Dimmer speed mode 1 (Hold 3S, override menu and change) Dimmer speed mode 2 (Hold 3S, override menu and change) Dimmer speed mode 3 (Hold 3S, override menu and change)

#### 13-CHANNEL MODE & 15-CHANNEL MODE

13CH	Function	Value	Percent/Setting
1	Dimmer	000-255	0~100%
2	Dimmer Fine	000-255	0~100%
3	Red	000-255	0~100%
4	Red Fine	000-255	0~100%
5	Green	000-255	0~100%
6	Green Fine	000-255	0~100%
7	Blue	000-255	0~100%
8	Blue Fine	000-255	0~100%
9	Amber	000-255	0~100%
10	Amber Fine	000-255	0~100%
11	Lime	000-255	0~100%
12	Lime Fine	000-255	0~100%
13	Strobe	000-010 011-255	No function Strobe slow to fast
15-CHANNEL MODE (same as 13-CH mode + below channels)			
14	Color Macro	000-512	See Page 15 (Color Macro channel definition)
15	Color Temperature	000-512	See Page 15 (Color Temperature channel definition)

## 3.12 DMX CONTROL

## 5 CHANNEL MODE

5CH	Function	Value	Percent/Setting
1	Red	000-255	0~100%
2	Green	000-255	0~100%
3	Blue	000-255	0~100%
4	Amber	000-255	0~100%
5	Lime	000-255	0~100%

## 7-CHANNEL MODE

7CH	Function	Value	Percent/Setting
1	Dimmer	000-255	0~100%
2	Red	000-255	0~100%
3	Green	000-255	0~100%
4	Blue	000-255	0~100%
5	Amber	000-255	0~100%
6	Lime	000-255	0~100%
7	Strobe	000-010 011-255	NO Function Strobe Slow to Fast

## 10-CHANNEL MODE

10CH	Function	Value	Percent/Setting
1	Dimmer	000-255	0~100%
2	Dimmer Fine	000-255	0~100%
3	Red	000-255	0~100%
4	Green	000-255	0~100%
5	Blue	000-255	0~100%
6	Amber	000-255	0~100%
7	Lime	000-255	0~100%
8	Strobe	000-010 011-255	No function Strobe slow to fast
9	Color Macro	000-512	See Page 15 (Color Macro channel definition)
10	Color Temperature	000-512	See Page 15 (Color Temperature channel definition)

## HSV MODE

HSV	Function	Value	Percent/Setting
1	Hue	000-255	0~100%
2	Saturation	000-255	0~100%
3	Value	000-255	0~100%

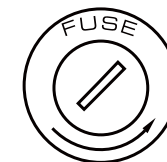
## - 1.2 - MAINTENANCE

## 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.

## FUSE REPLACEMENT

1. Disconnect this product from the power outlet.
2. Using a screwdriver, unscrew the fuse holder cap from the housing.
3. Remove the blown fuse and replace with a good fuse of the same type and rating (250V/T3.15A).
4. Screw the fuse holder cap back in place and reconnect power.

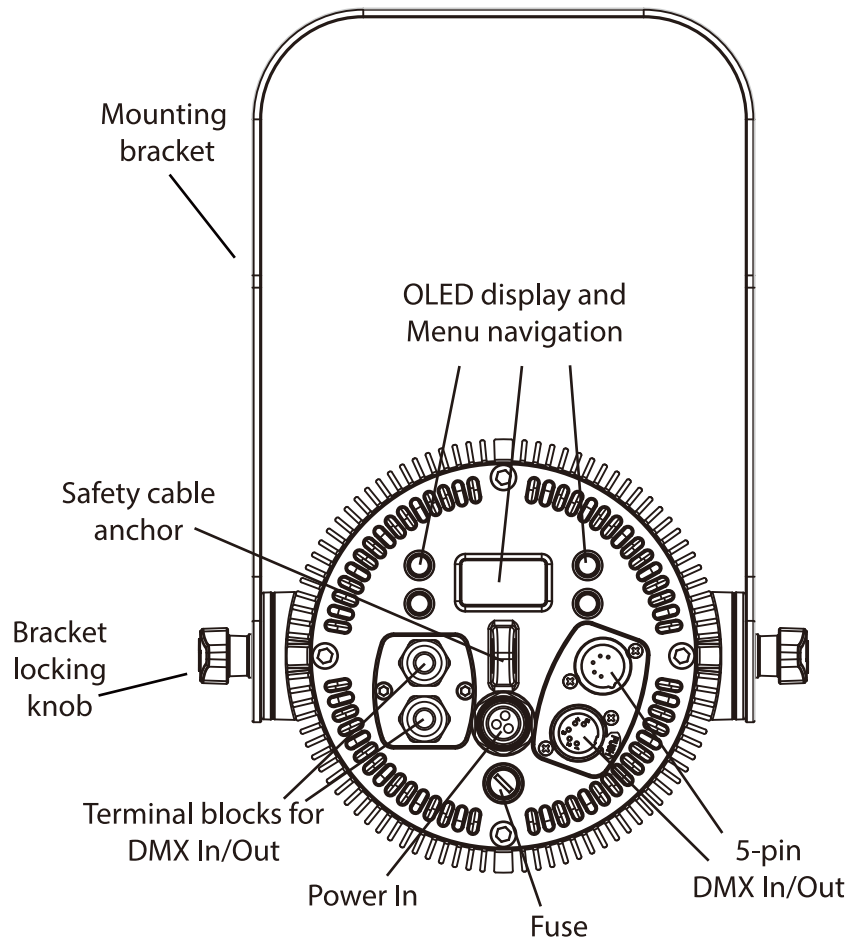


## TROUBLESHOOTING

Problems	Possible causes	Checks and remedies
Fixture does not light up	<ul style="list-style-type: none"> <li>• No mains supply</li> <li>• Dimmer fader set to 0</li> <li>• All color faders set to 0</li> <li>• Faulty LED</li> <li>• Faulty LED board</li> </ul>	<ul style="list-style-type: none"> <li>• Check the power supply voltage</li> <li>• Increase the value of the dimmer channels</li> <li>• Increase the value of the color channels</li> <li>• Replace the LED board</li> <li>• Replace the LED board</li> </ul>
General low light intensity	<ul style="list-style-type: none"> <li>• Dirty lens assembly</li> <li>• Misaligned lens assembly</li> </ul>	<ul style="list-style-type: none"> <li>• Clean the fixture regularly</li> <li>• Install lens assembly properly</li> </ul>
Fixture does not power up	<ul style="list-style-type: none"> <li>• No power</li> <li>• Loose or damaged power cord</li> <li>• Faulty internal power supply</li> </ul>	<ul style="list-style-type: none"> <li>• Check for power on power outlet</li> <li>• Check power cord</li> <li>• Replace internal power supply</li> </ul>
Fixture does not respond to DMX	<ul style="list-style-type: none"> <li>• Wrong DMX addressing</li> <li>• Damaged DMX cables</li> <li>• Bouncing signals</li> </ul>	<ul style="list-style-type: none"> <li>• Check control panel and unit addressing</li> <li>• Check DMX cables</li> <li>• Install terminator as suggested</li> </ul>

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.

## 1.3 OPERATING ELEMENTS AND CONNECTIONS



## 3.12 DMX CONTROL

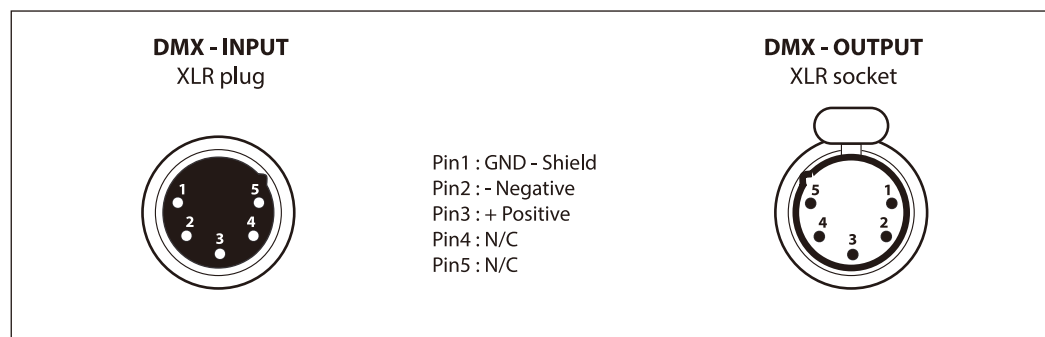
## 3 CHANNEL MODE

3CH	Function	Value	Percent/Setting
1	Dimmer	000-255	0~100%
2	Color Macro	000-005	No Function
		006-013	R 4590-Cal90 Yellow
		014-021	R 11-Light Straw
		022-028	R 312-Canary
		029-035	R 03-Dark BAmer
		036-043	R 18-Flame
		044-051	R 20-Medium Amber
		052-059	R 21-Golden Amber
		060-067	R 26-Light Red
		068-075	R 27-Medium Red
		076-083	R 33-NoColor Pink
		084-091	R 337-True Pink
		092-099	R 38-Light Rose
		100-107	R 41-Salmon
		108-115	R 42-Deep Salmon
		116-121	R 44-Middle Rose
		122-130	R 349-Fisher Fuchsia
		131-138	R 54-Special Lavender
		139-146	R 64-Light Steel Blue
		147-154	R 364-Blue Bell
		155-162	R 65-Daylight Blue
		163-170	R 80-Primary Blue
		171-178	R 81-Urban Blue
		179-186	R 82-Surprise Blue
		187-194	R 382-Congo Blue
3	Color Temperature	195-202	R 83-Medium Blue
		203-210	R 383-Sapphire Blue
		211-218	R 90-Dk Yellow Green
		219-226	R 91-Primary Green
		227-234	R 92-Turquoise
		235-242	R 93-Blue Green
		243-250	R 393-Emerald Green
		251-255	No Function
		000-005	No Function
		006-025	2800K
		026-050	3200K
		051-075	3500K
		076-100	4000K
		101-125	4500K
		126-150	5000K
		151-175	5600K
		176-200	6000K
		201-225	6500K
		226-255	No Function

### 3.10 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.

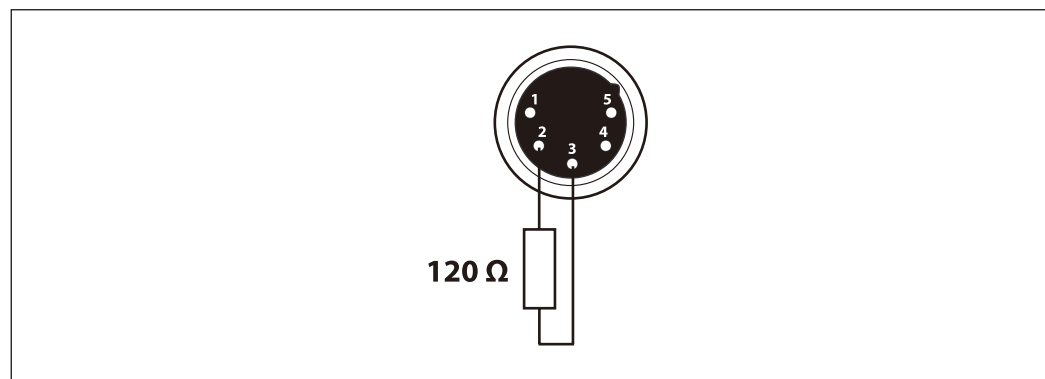
For those connections the use of balanced microphone cable is not recommended because it cannot transmit control DMX data reliably.

- 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.

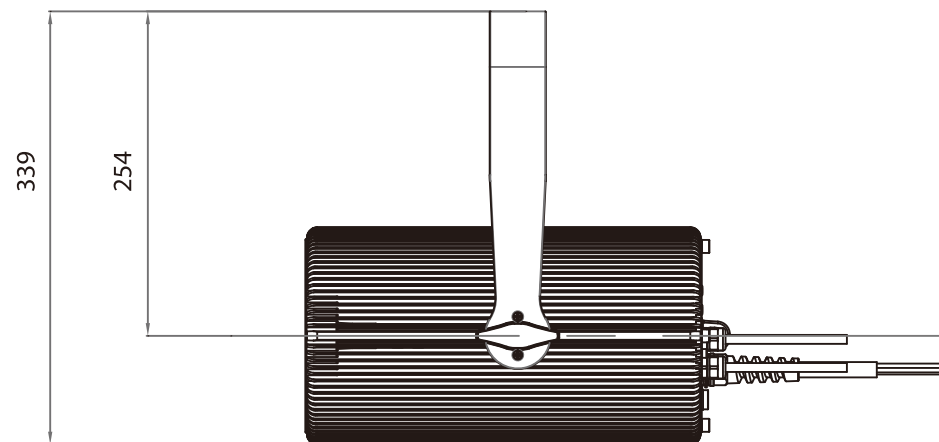
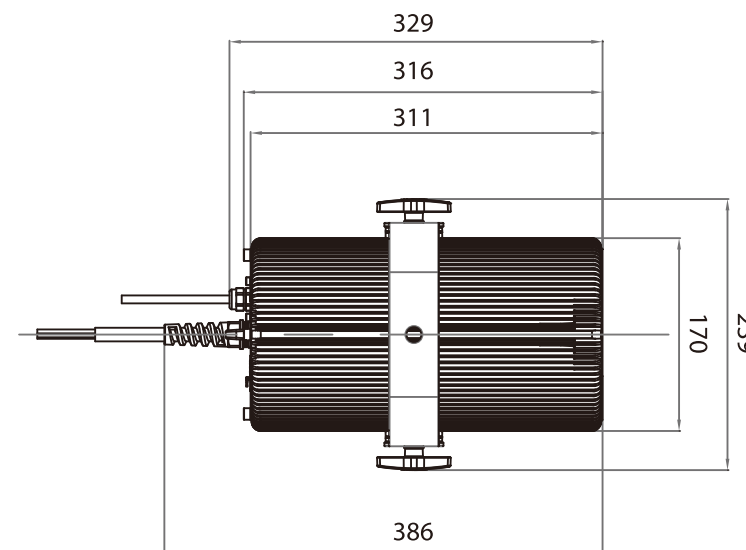
### 3.11 CONSTRUCTION OF THE DMX TERMINATION

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.



### 2.1 DIMENSIONS





## - 2 - INSTALLATION

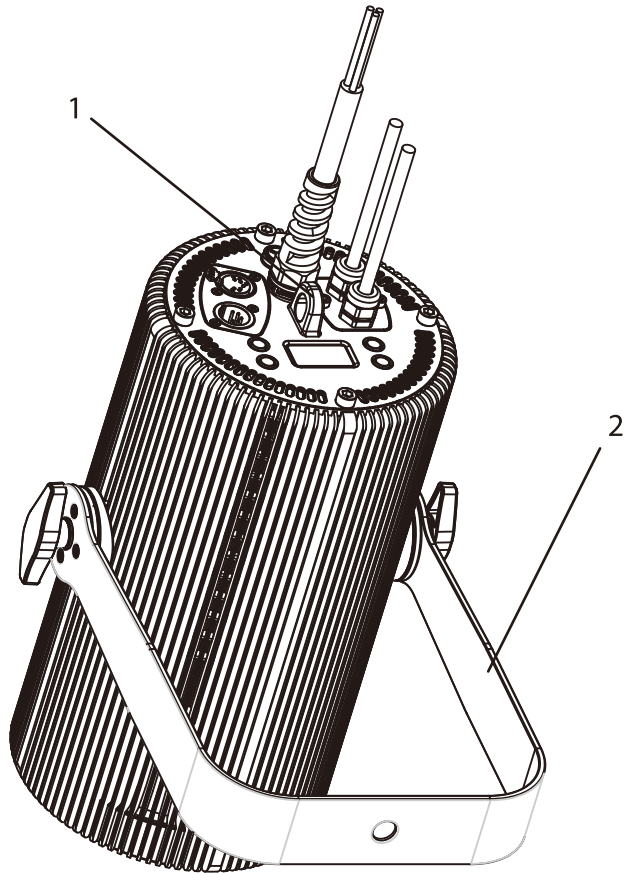
### 2.2 MOUNTING

This fixture may be mounted in two ways:

**Pendant mounting:** To suspend the fixture vertically, attach a suspension cable directly to the anchor located at the center of the back panel (1). In this configuration, the mounting bracket (2) should be removed.

**Clamp mounting:** To mount the fixture overhead with a clamp, attach a mounting clamp to the mounting bracket (2). In this configuration, a safety cable should also be attached to the anchor (1) as safety measure to prevent the fixture from accidentally falling.

All mounting clamps and cables should be properly rated to bear the weight of the fixture.



### 3.8 DMX CONFIGURATION

This fixture offers eight different DMX modes:

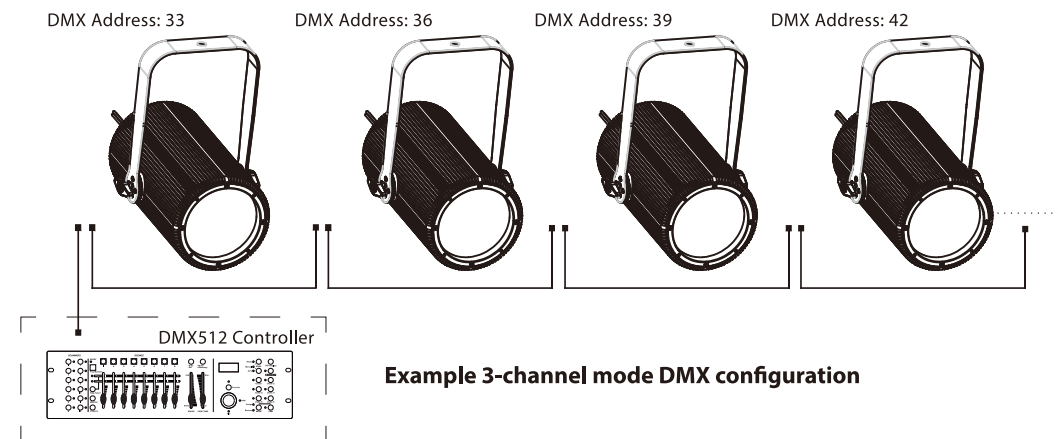
- Press the MENU button until **[DMX CHANNEL]** is displayed, then press the ENTER button to confirm.
- Select the desired DMX configuration : **3CH - 5CH - 7CH - 10CH - 12CH - 13CH - 15CH - HSV**

### 3.9 DMX ADDRESSING

- Press the MENU button until **[DMX ADDRESS]** is displayed, then press ENTER to confirm.
- Press UP/DOWN button to select the desired value (**001-512**). Press and hold to scroll quickly.
- Press the ENTER button to store.

An example configuration with the starting address of 33 in three-channel mode 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
3	33	33-35	36	39	42





3.4 AUTO SHOW

If DMX control is not being used, the unit can run its onboard auto show programs:

- Press the MENU button until the display shows **Auto Show**, then press the ENTER button.
- Press the UP/DOWN buttons to switch between the show (**Auto 1 - 5**). The unit will operate in show mode.
- Use the UP/DOWN buttons to select the desired run speed slow-fast (**1-100**).
- Press the ENTER button to save the setting.

3.5 STATIC MODE : VIRTUAL COLOR WHEEL, COLOR TEMPERATURE & MANUAL COLOR MIXER

If DMX control is not being used, color presets can be selected using the onboard menu:

- Press MENU repeatedly until **Virtual Color Wheel** shows on the display.
- Press the ENTER button.
- Use UP/DOWN buttons to select either **Virtual Color Wheel**, **Color Temperature** or **Manual Color Mixer**.
- Select the desired presets or colors using the UP/DOWN buttons.
- Press the ENTER to confirm color or color temperature presets.
- For manual color mixing, select **Red, Green, Blue, Amber** or **Lime** and set values between **0-255** using UP/DOWN buttons. Press ENTER to confirm.

3.6 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 with the same effect.

- Press the button MENU so many times until the display shows **Master/Slave** and press the button ENTER.
- Press UP/DOWN to set the unit as master or slave (**Master/Slave**).
- Select the desired program (see section 3.4).
- Use standard DMX cables to daisy chain your units together via the DMX connector on the rear of the unit. For longer cable runs, using a DMX terminator as described in this manual is recommended.

3.7 LINKING

Several units may be interconnected in order to control all further slave units to the same effect of the master unit.

1. Connect the DMX OUT of the master unit via 5-pin 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 - FUNCTIONS AND SETTINGS

3.1 OPERATION

Wire the power cable to power (100~240V/50~60Hz) according to the below table:

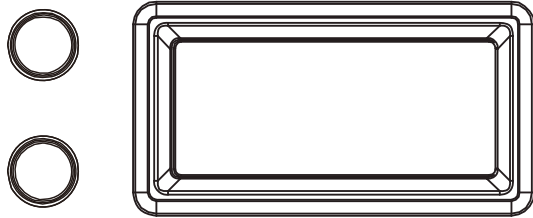
Connection	Wire (U.S.)	Wire (Europe)	Screw color
AC Live	Black	Brown	Yellow or Brass
AC Neutral	White	Blue	Silver
AC Ground	Green/Yellow	Green/Yellow	Green

3.2 BASIC

Access control panel functions using the four panel buttons located adjacent to the OLED display.

MENU

ENTER



UP

DOWN

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

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

3.3 MENU STRUCTURE

Main Menu	Submenu		Submenu	Remark	
DMX Address	<001>			Default: 001	
DMX Channel	3Ch			Default: 12CH	
	5Ch				
	7Ch				
	10Ch				
	12Ch				
	13Ch				
	15Ch				
	HSV				
Virtual Color Wheel	Virtual Color Wheel		R 4590-Cal90 Yellow	Dimmer<0-255>	Default: R4590-Cal90 Yellow , Dimmer=255
			R 11-Light Straw		
			R 312-Canary		
			R 03-Dark BAmb		
			R 18-Flame		
			R 20-Medium Amber		
			R 21-Golden Amber		
			R 26-Light Red		
			R 27-Medium Red		
			R 33-NoColor Pink		
			R 337-True Pink		
			R 38-Light Rose		
			R 41-Salmon		
			R 42-Deep Salmon		
			R 44-Middle Rose		
			R 349-Fisher Fuchsia		
			R 54-Special Lavender		
			R 64-Light Steel Blue		
			R 364-Blue Bell		
			R 65-Daylight Blue		
			R 80-Primary Blue		
			R 81-Urban Blue		
			R 82-Surprise Blue		
			R 382-Congo Blue		
			R 83-Medium Blue		
	R 383-Sapphire Blue				
	R 90-Dk Yellow Green				
	R 91-Primary Green				
	R 92-Turquoise				
	R 93-Blue Green				
	R 393-Emerald Green				
	Color Temperature		2800K	Dimmer<0-255>	Default: 3200K, Dimmer=255
			3200K		
			3500K		
			4000K		
			4500K		
			5000K		
			5600K		
			6000K		
	6500K				
	Manual Color Mixer		Red	<0-255>	Default: RGBAL=255
			Green	<0-255>	
			Blue	<0-255>	
			Amber	<0-255>	
			Lime	<0-255>	

3.3 MENU STRUCTURE (cont'd)

Auto Show	Auto 1	<1-100>		Default: Auto 1;Speed:100
	Auto 2	<1-100>		
	Auto 3	<1-100>		
	Auto 4	<1-100>		
	Auto 5	<1-100>		
Master/Slave	Master			Default: Slave
	Slave			
Dimmer Mode	Off			Default: Off RDM: PID:8100 Message: 00-01-02-03
	Dimmer 1			
	Dimmer 2			
White Balance	Dimmer 3		Manual	Default: Off
	Off			
		Red		
		Green		
		Blue		
		Amber		
		Lime		
LED Frequency	600Hz			Default: 1200Hz RDM: PID:8101, Message: 00-01-02-03-04-05
	1200 Hz			
	2000 Hz			
	4000 Hz			
	6000 Hz			
	25KHz			
Back Light	On			Default: On
	10S			
	20S			
	30S			
Wireless Setting	Receive On/Off	On		Default: Off
		Off		
	Receive Reset	No		
Emergency Mode		Yes		Default: NO
	On			
Information	Off			Default: On
	Fixture Hours	<9999H>		
	Version	<V1.0>		
Factory Reset	UID:	<030F025*****>		
	No			
	Yes			