

FOS Technologies



USER MANUAL

INTRODUCTION

Thank you for having chosen our LED lighting

Unpack the device, inside the box you should find:

The fixture device

One power cable

One XLR connection cable

This manual

Please check carefully that there is no damage caused by transportation.

Should there be any problems, consult your dealer and don't install this device.

DESCRIPTION

Features

- Easy multi fixture hanging system, outdoor version available
- 7 pcs RGBWA 5in1 LED+120 pcs 5050 RGB 3 in 1, no ultraviolet radiation
- More than 50,000 hours for the LED light source
- 25 degree RGBWA 5 in 1 LED, 120degree for 5050 LEDS
- 1/8/9/23/32 DMX channels
- 16 Bit Dimmer
- DMX Mode /Master-slave mode
- AC 100-240V 50/60Hz 150W
- Diecasting heatsink, convection cooling, no fans, no noise
- With temperature sensor to extend the lamp life
- 7000 Hz LED scan rate
- L: 490mm H:285mm W:120mm, Weight 9Kg
- IP65/IP43 selectable

SAFETY INSTRUCTIONS

This device has left the factory in perfect condition. In order to maintain this condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this user manual.

This device falls under protection-class I. Therefore it is essential that the device should be earthed.

The electric connection must carry out by qualified person.

If the external flexible cable or cord of this luminaire is damaged, it shall be exclusively replaced by the manufacturer or his

	31	Green2_6 Dimmer	000 - 255
	32	Blue2_6 Dimmer	000 - 255

CLEANING AND MAINTENANCE

We recommend a frequent cleaning of the device. Please use a soft lint-free and moistened cloth. Never use alcohol or solvents!

CAUTION! Disconnect from mains before starting maintenance operation.

There are no serviceable parts inside the device. Maintenance and service operations are only to be carried out by authorized dealers. If you need any spare parts, please use genuine parts. If the power supply cable of this device becomes damaged, it has to be replaced by authorized dealers only in order to avoid hazards. If you have further questions, please contact your dealer.

INSTALLATION

The device must only be installed at a vibration-free, oscillation-free and fire-resistant location.

service agent or a similar qualified person in order to avoid a hazard.

Make sure that the available voltage is not higher than stated at the end of this manual.

Make sure the power cord is never crimped or damaged by sharp edges. If this would be the case, replacement of the cable must be done by an authorized dealer.

Always disconnect from the mains, when the device is not in use or before cleaning it. Only handle the power cord by the plug. Never pull out the plug by tugging the power cord.

Never look directly into the light source, as sensitive persons may suffer an epileptic shock.

Important:

Damages caused by the disregard of this user manual are not subject to warranty. The dealer will not accept liability for any resulting defects or problems.

DMX-512 control connection

The product has a DMX 512 input fitted with 3-pin XLR connectors. Screened cables in compliance with EIA RS-485 specifications and the following characteristics must be used for connections:

- 2 conductors plus screen
- 120Ohm impedance
- low capacitance
- max. transmission rate 250kBaud.

DMX-512 connection with DMX terminator

For installations where the DMX cable has to run a long distance or is in an electrically noisy environment, such as in a discotheque, it is recommended to use a DMX terminator. This helps in preventing corruption of the digital control signal by electrical noise. The DMX terminator is simply an XLR plug with a 120 OHM resistor connected between pins 2 and 3, which is then plugged into the output XLR socket of the last fixture in the chain.

Display Menu

Main menu	Sub-menu	
address	DMX Address Setting	
Config.	channel	channel 1Ch
		channel 8Ch
		channel 9Ch
		channel 14Ch
		channel 23Ch
		channel 29Ch
		channel 32Ch
	Dimmer Curve	Mode L
		Mode Q
		Mode I
		Mode S
	Cipher Setup	0-999
	Key Mode	Lock
		Unlock
	Temp Unit CS	Celsius Degree
		Fahrenheit Degree
	DMX Direct	Positive
Negative		
DMX Status	Value Clear	
	Value Hold	
Display Mode	Auto	
	On	
System Info	Temperature	
	Fixture time	
Color Menu	Red1	0-255
	Green1	0-255
	Blue1	0-255
	White1	0-255
	Abmer1	0-255
	Red2	
	Green2	
	Blue2	
White Balance	Set Red2	0-255
	Set Green2	0-255
	Set Blue2	0-255
Static color	Color 0-51	
Auto Test		

4	Blue1 Dimmer	000 - 255
5	White1 Dimmer	000 - 255
6	Yellow1 Dimmer	000 - 255
7	Red2 Dimmer	000 - 255
8	Green2 Dimmer	000 - 255
9	Blue2 Dimmer	000 - 255
10	Strobe	
	No Effect	000 - 015
	Strobe Rate(0 - 30HZ)	016 - 255
11	Color Macro Color + Black	000 - 255
12	Auto Run	
	No Effect	000 - 035
	Ramp Up Effect	036 - 071
	Ramp Down Effect	072 - 107
	Ramp Up-Down Effect	108 - 143
	Color Mix Effect	144 - 179
	4-Colors Effect	180 - 215
	RunningWater Effect	216 - 255
13	Dimmer Speed	000 - 255
14	Dimmer Curve	
	L curve	000 - 063
	S curve	064 - 127
	I curve	128 - 191
	Q curve	192 - 255
15	Red2_1 Dimmer	000 - 255
16	Green2_1 Dimmer	000 - 255
17	Blue2_1 Dimmer	000 - 255
18	Red2_2 Dimmer	000 - 255
19	Green2_2 Dimmer	000 - 255
20	Blue2_2 Dimmer	000 - 255
.	.	000 - 255
.	.	000 - 255
.	.	000 - 255
30	Red2_6 Dimmer	000 - 255

	10	Green2_2 Dimmer	000 - 255
	11	Blue2_2 Dimmer	000 - 255
	.	.	000 - 255
	.	.	000 - 255
	.	.	000 - 255
	21	Red2_6 Dimmer	000 - 255
	22	Green2_6 Dimmer	000 - 255
	23	Blue2_6 Dimmer	000 - 255
29	1	Master Dimmer1	000 - 255
	2	Red1 Dimmer	000 - 255
	3	Green1 Dimmer	000 - 255
	4	Blue1 Dimmer	000 - 255
	5	White1 Dimmer	000 - 255
	6	Yellow1 Dimmer	000 - 255
	7	Strobe1	000 - 255
	8	Macro1	000 - 255
	9	Master Dimmer2	000 - 255
	10	Red2-1 Dimmer	000 - 255
	11	Green2-1 Dimmer	000 - 255
	12	Blue2-1 Dimmer	000 - 255
	13	Red2-2 Dimmer	000 - 255
	14	Green2-2 Dimmer	000 - 255
	15	Blue2-2 Dimmer	000 - 255
	.	.	
	.	.	
	.	.	
	25	Red2-6 Dimmer	000 - 255
	26	Green2-6 Dimmer	000 - 255
	27	Blue2-6 Dimmer	000 - 255
	28	Strobe2	000 - 255
29	Macro2	000 - 255	
32 Ch	1	Master Dimmer	000 - 255
	2	Red1 Dimmer	000 - 255
	3	Green1 Dimmer	000 - 255

Load Default		
Firmware Version		

Main functions

1. Address: Current DMX address

.Setting DMX address by button

press **ENTER** button when show the **address** menu, then adjust the DMX address by pressing **[UP]** or **[DOWN]** button

Press **[ENTER]** to confirm or press **[ESC]** to return to main menu.

2. Config

Setting DMX mode

press **ENTER** button when show the **channel** menu, then select the DMX mode by pressing **[UP]** or **[DOWN]** button

Setting Dimmer Curve

press **ENTER** button when show the **dimmer curve** menu, then select the dimmer curve by pressing **[UP]** or **[DOWN]** button

Setting Cipher

press **ENTER** button when show the **cipher setup** menu, then setup cipher by pressing **[UP]** or **[DOWN]** button

Key mode

press **ENTER** button when show the **key mode** menu, then select lock or unlock by pressing **[UP]** or **[DOWN]** button

Show Temperature

press **ENTER** button when show the **Temp Unit CS** menu, select the way of showing the fixture's temperature in °C or °F by pressing **[UP]** or **[DOWN]** button

DMX status

press **ENTER** button when show the **DMX Status** menu, then select clear value or hold value by pressing **[UP]** or **[DOWN]** button

Display mode

press **ENTER** button when show the **Display Mode** menu, then select auto or on by pressing **[UP]** or **[DOWN]** button

3. System info

Temperature

press **ENTER** button when show the **Temperature** menu, then it will show the temperature of the fixture

Fixture time

press **ENTER** button when show the **Fixture time** menu, then it will show how long time of the fixture already used

4. Color menu

press **ENTER** button when show the **Color** menu, press **Enter** button to select the color mode, then adjust the color by pressing **[UP]** or **[DOWN]** button

5. White balance

press **ENTER** button when show the **white balance** menu, press **Enter** button to select the color mode, then adjust the color by pressing **[UP]** or **[DOWN]** button

6. Auto test

press **ENTER** button when show the **auto test** menu, select test mode by pressing **[UP]** or **[DOWN]** button

DMX functions and values

Channel for SP150

Channel Mode	Channel	Functions	Values
1 Ch	1	Static Color	000 - 255
8 Ch	1	Red1 Dimmer	000 - 255
	2	Green1 Dimmer	000 - 255
	3	Blue1 Dimmer	000 - 255
	4	White1 Dimmer	000 - 255
	5	Yellow1 Dimmer	000 - 255
	6	Red2 Dimmer	000 - 255
	7	Green2 Dimmer	000 - 255

	8	Blue2 Dimmer	000 - 255
9 Ch	1	Master Dimmer	000 - 255
	2	Red1 Dimmer	000 - 255
	3	Green1 Dimmer	000 - 255
	4	Blue1 Dimmer	000 - 255
	5	White1 Dimmer	000 - 255
	6	Yellow1 Dimmer	000 - 255
	7	Red2 Dimmer	000 - 255
	8	Green2 Dimmer	000 - 255
	9	Blue2 Dimmer	000 - 255
14	1	Master Dimmer1	000 - 255
	2	Red1 Dimmer	000 - 255
	3	Green1 Dimmer	000 - 255
	4	Blue1 Dimmer	000 - 255
	5	White1 Dimmer	000 - 255
	6	Yellow1 Dimmer	000 - 255
	7	Strobe1	000 - 255
	8	Macro1	000 - 255
	9	Master Dimmer2	000 - 255
	10	Red2 Dimmer	000 - 255
	11	Green2 Dimmer	000 - 255
	12	Blue2 Dimmer	000 - 255
	13	Strobe2	000 - 255
	14	Macro2	000 - 255
23 Ch	1	Red1 Dimmer	000 - 255
	2	Green1 Dimmer	000 - 255
	3	Blue1 Dimmer	000 - 255
	4	White1 Dimmer	000 - 255
	5	Yellow1 Dimmer	000 - 255
	6	Red2_1 Dimmer	000 - 255
	7	Green2_1 Dimmer	000 - 255
	8	Blue2_1 Dimmer	000 - 255
	9	Red2_2 Dimmer	000 - 255