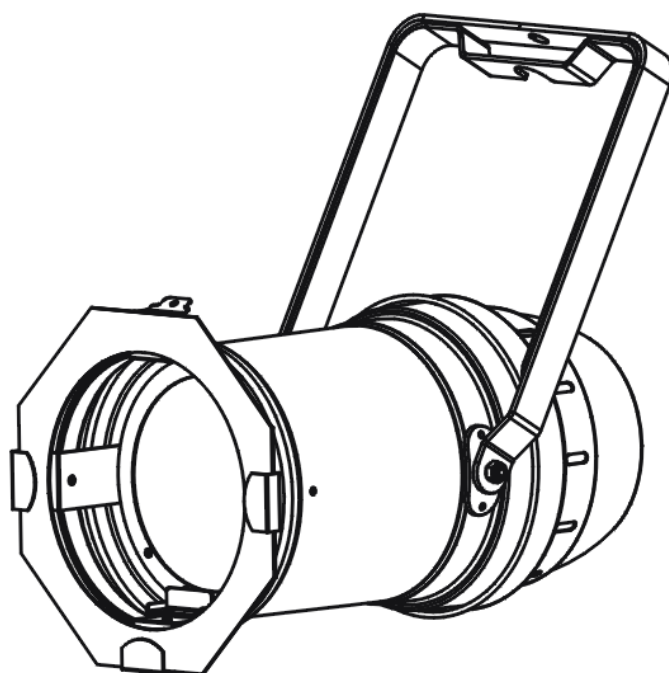




STAGE PAR 100 COLOUR IP



LED-PAR 100 RGBWA

User Manual

Please read the instructions carefully

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1. Safety Instructions



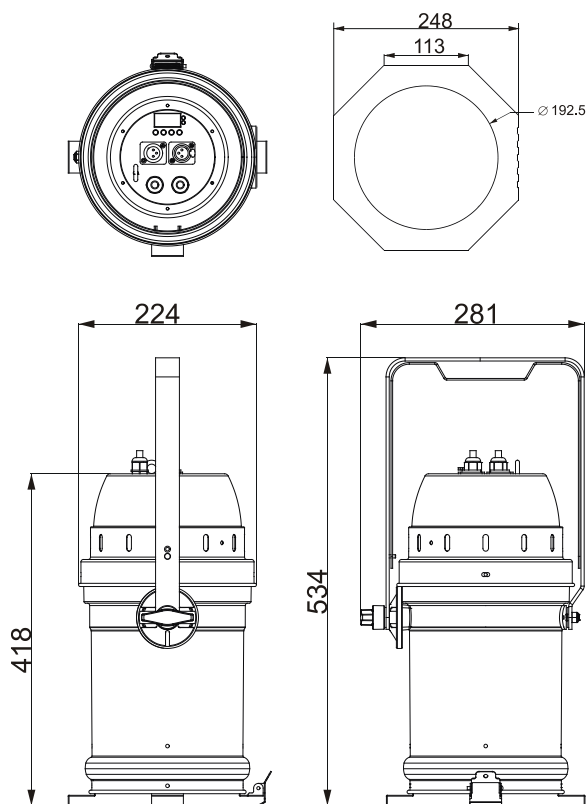
WARNING

Please read the instruction carefully which includes important information about the installation, usage and maintenance.

- Please keep this User Manual for future consultation. If you sell the fixture to another user, be sure that they also receive this instruction booklet.
- Please unpack and check carefully there is no transportation damage before using the fixture.
- Please disconnect main power before servicing and maintenance.
- The unit must be installed in a location with adequate ventilation, at least 50cm from adjacent surfaces. Be sure that no ventilation slots are blocked.
- The maximum ambient temperature is $T_a: 40^{\circ}\text{C}$. DO NOT operate it where the temperature is higher than this.
- DO NOT connect the device to any dimmer pack.
- The housing must be replaced if they are visibly damaged.
- Unit surface temperature may reach up to 85°C . Don't touch the housing bare-hand during its operation. Turn off the power and allow about 15 minutes for the unit to cool down before replacing or serving.
- There are no user serviceable parts inside the fixture. Do not open the housing or attempt any repairs by yourself. In the unlikely event your fixture may require service, please contact your nearest dealer.
- In the event of serious operating problem, stop using the fixture immediately. Never try to repair the fixture by yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center. Always use the same type spare parts.

2. Technical Specifications

- 4/6/7/8 channel Mode;
- Dimmer, Strobe;
- Ideal for Professional stages, Concerts, clubs, discotheques, Mobile DJs, etc.
- **Input Voltage:** AC100V~240V, 50/60Hz
- **Total Power consumption:** 109.6W
- **Beam Angle:** 7°/11.5°/16°/20.5°/25°
- **IP Grade:** IP X4
- **LED Sources:** RGBA four in one COB
- **Dimension:** 534 x 281 x 224mm
- **Weight:** 4.5Kgs



3. Installation and Connection

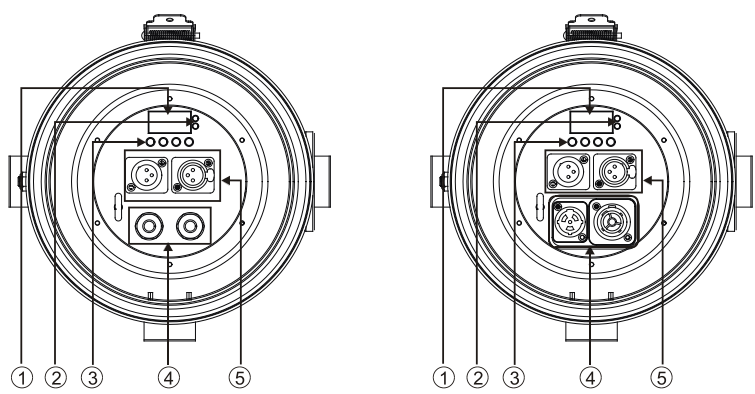
The unit should be mounted via its screw holes on the bracket. Always ensure that the unit is firmly fixed to avoid vibration and slipping while operating. Always ensure that the structure to which you are

attaching the unit is secure and is able to support a weight of 10 times of the unit’s weight. Also always use a safety cable that can hold 12 times of the weight of the unit when installing the fixture.

The equipment must be fixed by professionals. And it must be fixed at a place where is out of the touch of people and has no one pass by or under it. The unit should be mounted in the height of 0 to 30m.

4. How to set the unit

4.1 Rear Panel



① **Display:** Show the various menus and the selected functions;

② **LED indicator:**

POWER	On	Power On
DMX	On	DMX input present

③ **Button:**

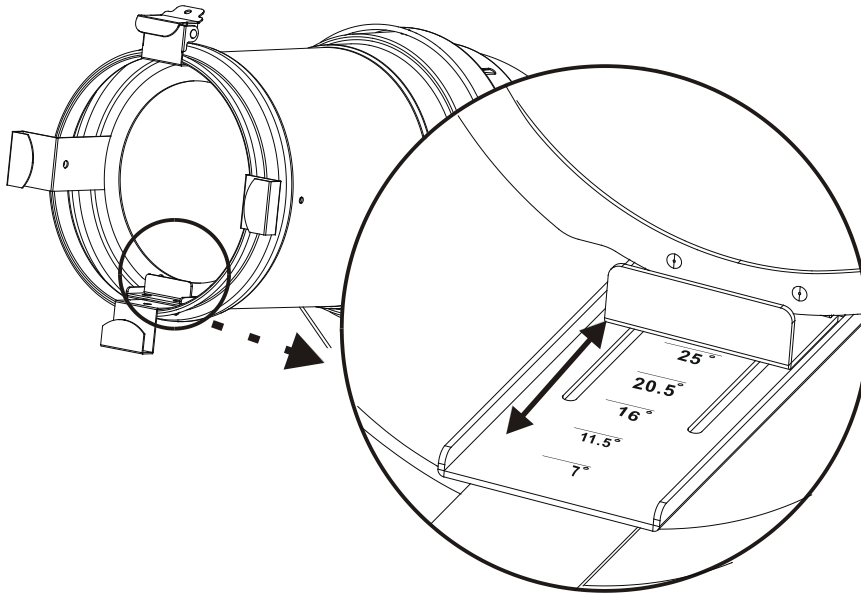
MENU	To select the programming functions
DOWN	To go forward in the selected functions
UP	To go backward in the selected functions
ENTER	To confirm the selected functions

④ **Mains input/output::** Use Powercon true one mains connection.

⑤ **DMX input/output:**

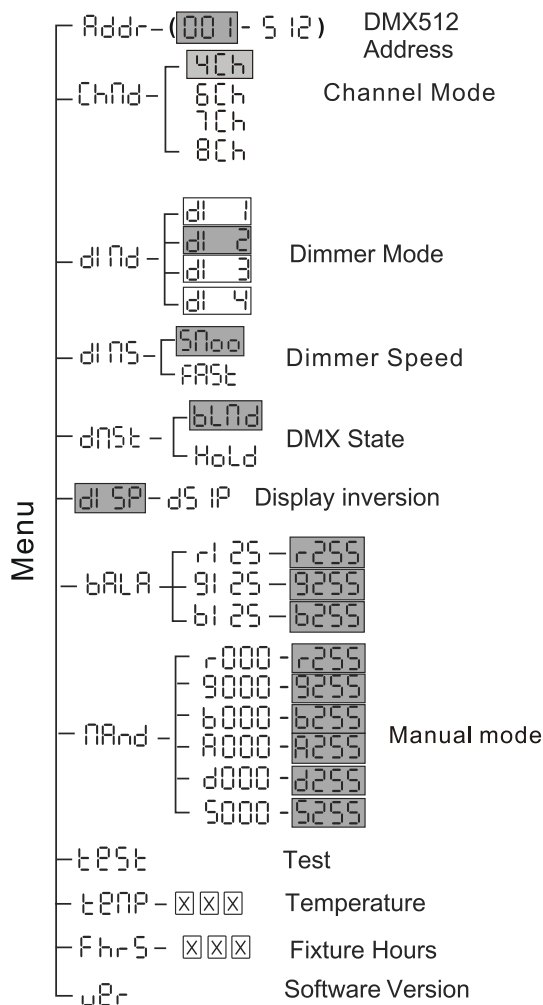
For DMX512 link, use 3/5-pin XLR plug cable to input DMX signal, and to link the next unit.

The beam angle can be adjusted manually, which is 7°/11.5°/16°/20.5°/25°.



4.2 Main Function

To select any functions, press **MENU** button until the required one is shown on the display. Select the function by **ENTER** button. Use **DOWN** and UP button to change the mode. Once the required mode has been selected, press **ENTER** button to setup or it will return to the main functions without any change after idling 8 seconds automatically. Back to the functions without any change press **MENU** button. The main functions are shown below:



Addr DMX 512 Address Setting

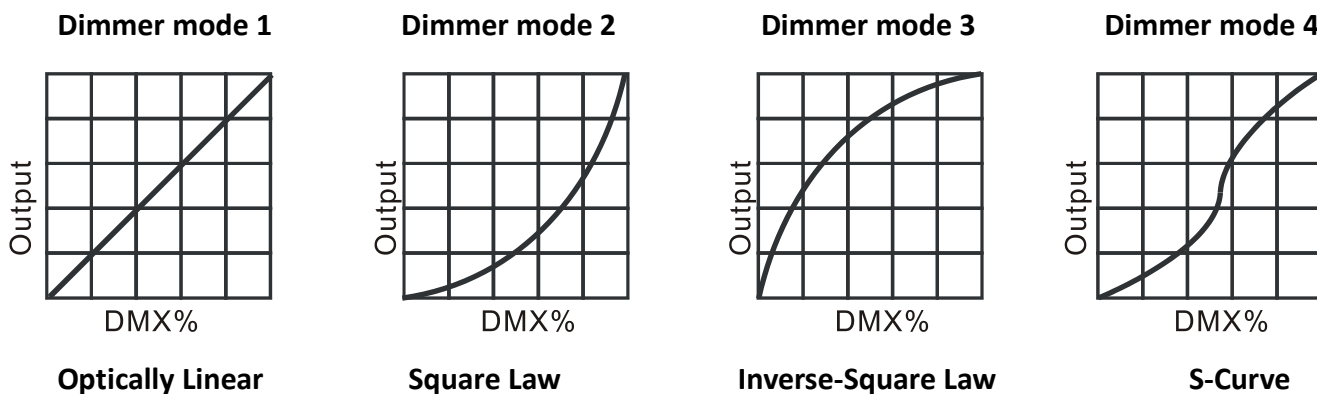
Select the **Addr**, press the **ENTER** button and the display will blink. Use the **DOWN** and **UP** button to change the DMX 512 address (001-512). Once the address has been selected, press the **ENTER** button to setup or exit menu mode without any change after 8 seconds automatically. Back to the previous functions without any change press the **MENU** button.

Chnd Channel Mode

Select the **Chnd**, press the **ENTER** button. Use the **DOWN** and **UP** button to select the channel mode (4CH/ 6CH/7CH/8CH). Once the address has been selected, press the **ENTER** button to setup or exit menu mode without any change after 8 seconds automatically. Back to the previous functions without any change press the **MENU** button.

dimd Dimmer Mode

Select the **di nd**, press the **ENTER** button. Use the **DOWN** and **UP** button to select **di 1** (Dimmer Mode 1)... **di 4** (Dimmer Mode 4). Once selected, press the **ENTER** button to setup or exit menu mode without any change after 8 seconds. Back to the functions without any change press the **MENU** button again.



Mode 1(Optically Linear): The increase in light intensity appears to be linear as DMX value is increased.

Mode 2(Square Law): Light intensity control is finer at low levels and coarser at high levels.

Mode 3(Inverse Square Law): Light intensity control is coarser at low levels and finer at high levels.

Mode 4(S-cure): Light intensity control is finer at low levels and high levels and coarser at medium levels.

di ns Dimmer Speed

Select the **di ns**, press the **ENTER** button. Use the **DOWN** and **UP** button to select **FAST** (Fast) or **Smooth** (Smooth). Once selected, press the **ENTER** button to setup or exit menu mode without any change after 8 seconds. Back to the functions without any change press the **MENU** button again.

dn st DMX State

Select the **dn st**, press the **ENTER** button. Use the **DOWN** and **UP** button to select **BLND** (Blackout) or **Hold** (Hold the last state) . Once selected, press the **ENTER** button to setup or exit menu mode without any change after 8 seconds. Back to the functions without any change press the **MENU** button again.

di SP

Display Inverse

Select the **di SP**, press the **ENTER** button. Use the **DOWN** and **UP** button to select **di SP** (Display Normal) or **ds IP** (Display Inverse). Once selected, press the **ENTER** button to setup or exit menu mode without any change after 8 seconds automatically. Back to the functions without any change press the **MENU** button again.

bALA

White Balance

Select the **bALA**, press the **ENTER** button. use the **DOWN** and **UP** button to select **r1 25**/**91 25**/**61 25**, You can choose values between 125-255, and press the **ENTER** button to setup or automatically exit menu mode without any change after 8 seconds. To go back to the functions without any change press the **MENU** button

nAnd

Manual mode

Select the **nAnd**, press the **ENTER** button. Use the **DOWN** and **UP** button to select **r000**
RED(R000-R255)/**9000** GREEN(G000-G255)/**6000** BLUE(B000-B255)/**A000** AMBER(A000-A255)/
d000 the brightness (d000-d255) or **S000** strobe(S000-S255). Once selected, press the **ENTER** button to setup or exit menu mode without any change after 8 seconds automatically. Back to the functions without any change press the **MENU** button again.

tEst

Auto Test

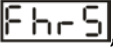
Select the **tEst**, press the **ENTER** button and the unit will run self-test by built-in program. To go back to the functions press the **MENU** button again. Hold and press the **MENU** button about one second or wait for one minute to exit the menu mode.

tENP

Temperature Display

Select the , press **ENTER** button and the display will show the temperature, To go back to the functions press the **MENU** button.

 **Fixture Hour**

Select the , press **ENTER** button and the display will show the number of working hours of the unit. To go back to the functions press the **MENU** button.

 **Software Version**

Select the , press **ENTER** button and the display will show the version of software of the unit.
To go back to the functions press the **MENU** button.

5. How to control the unit

1. By DMX controller;

No need to turn the unit off when you change the DMX address, as new DMX address setting will be affected at once. Turn on the unit, under the DMX signal , the LED will display the saved channel address (001-512) .

6. DMX512 configuration

Channel Mode:

4Channel Mode

Channel	Value	Function
1 R	0-255	Dimmer 0→100%
2 G	0-255	Dimmer 0→100%
3 B	0-255	Dimmer 0→100%
4 A	0-255	Dimmer 0→100%

6Channel Mode

Channel	Value	Function
1 R	0-255	Dimmer 0→100%
2 G	0-255	Dimmer 0→100%
3 B	0-255	Dimmer 0→100%
4 A	0-255	Dimmer 0→100%
5	0-255	Total Dimmer 0→100%
6 Flash	0-5	Open
	6-123	Flash Rate, slow to fast
	124-127	Open
	128-168	random strobe
	169-208	random strobe
	209-249	random strobe
	250-255	Open

7Channel Mode

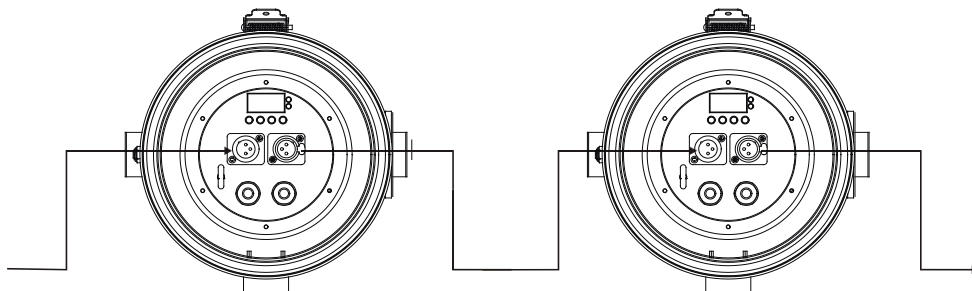
Channel	Value	Function
1 R	0-255	Dimmer 0→100%
2 G	0-255	Dimmer 0→100%
3 B	0-255	Dimmer 0→100%
4 A	0-255	Dimmer 0→100%
5 Color	0-7	NO effect
	8-15	LEE790 - Moroccan pink
	16-22	LEE157 - Pink
	23-30	LEE332 - Special rose pink
	31-37	LEE328 - Follies pink
	38-45	LEE345 - Fuchsia pink
	46-52	LEE194 - Surprise pink
	53-60	LEE181 - Congo Blue
	61-67	LEE071 - Tokyo Blue
	68-75	LEE120 - Deep Blue
	76-82	LEE079 - Just Blue
	83-90	LEE132 - Medium Blue
	91-97	LEE200 - Double CT Blue
	98-105	LEE161 - State Blue
	106-112	LEE201 - Full CT Blue
	113-120	LEE202 - Half CT Blue
	121-127	LEE117 - Steel Blue
	128-135	LEE353 - Lighter Blue
	136-142	LEE118 - Light Blue
	143-150	LEE116 - Medium Blue Green
	151-157	LEE124 - Dark Green
	158-165	LEE139 - Primary Green
	166-172	LEE089 - Moss Green
	173-180	LEE122 - Fern Green
	181-187	LEE738 - JAS Green
	188-195	LEE088 - Lime Green
	196-202	LEE100 - Spring Yellow
	203-210	LEE104 - Deep Amber
	211-217	LEE179 - Chrome Orange
	218-225	LEE105 - Orange
	226-232	LEE021 - Gold Amber
	233-240	LEE778 - Millennium Gold
	241-247	LEE135 - Deep Gold Amber
	248-255	LEE164 - Flame Red
6	0-255	Total Dimmer 0→100%
7 Flash	0-5	Open
	6-123	Flash Rate, slow to fast
	124-127	Open
	128-168	random strobe
	169-208	random strobe
	209-249	random strobe
	250-255	Open

8Channel Mode

Channel	Value	Function
1 R	0-255	Dimmer 0→100%
2 G	0-255	Dimmer 0→100%
3 B	0-255	Dimmer 0→100%
4 A	0-255	Dimmer 0→100%
5 Color	0-7 8-15 16-22 23-30 31-37 38-45 46-52 53-60 61-67 68-75 76-82 83-90 91-97 98-105 106-112 113-120 121-127 128-135 136-142 143-150 151-157 158-165 166-172 173-180 181-187 188-195 196-202 203-210 211-217 218-225 226-232 233-240 241-247 248-255	NO effect LEE790 - Moroccan pink LEE157 - Pink LEE332 - Special rose pink LEE328 - Follies pink LEE345 - Fuchsia pink LEE194 - Surprise pink LEE181 - Congo Blue LEE071 - Tokyo Blue LEE120 - Deep Blue LEE079 - Just Blue LEE132 - Medium Blue LEE200 - Double CT Blue LEE161 - State Blue LEE201 - Full CT Blue LEE202 - Half CT Blue LEE117 - Steel Blue LEE353 - Lighter Blue LEE118 - Light Blue LEE116 - Medium Blue Green LEE124 - Dark Green LEE139 - Primary Green LEE089 - Moss Green LEE122 - Fern Green LEE738 - JAS Green LEE088 - Lime Green LEE100 - Spring Yellow LEE104 - Deep Amber LEE179 - Chrome Orange LEE105 - Orange LEE021 - Gold Amber LEE778 - Millennium Gold LEE135 - Deep Gold Amber LEE164 - Flame Red
6	0-255	Total Dimmer 0→100%
7	0-255	Dimming fine
8 Flash	0-5	Open
	6-123	Flash Rate, slow to fast
	124-127	Open
	128-168	random strobe
	169-208	random strobe
	209-249	random strobe
	250-255	Open

7. DMX512 Connection

Mode connection:



1. Connect the fixture together in a “daisy chain” by XLR plug cable from the output of the fixture to the input of the next fixture. The cable cannot be branched or split to a “Y” cable. Inadequate or damaged cables, soldered joints or corroded connectors can easily distort the signal and shut down the system
2. The DMX output and input connectors are pass-through to maintain the DMX circuit when one of the units’ power is disconnected.
3. At last fixture, the DMX cable has to be terminated with a terminator to reduce signal errors. Solder a 120-ohm 1/4W resistor between pin 2(DMX-) and pin 3(DMX+) into a 3-pin XLR-plug and plug it in the DMX-output of the last fixture.
4. Each lighting fixture needs to have an address set to receive the data sent by the controller. The address number is between 0-511 (usually 0 & 1 are equal to 1).
5. 3/5 pin XLR connectors:
3 pin XLR: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+), Pin 4: Blank, Pin 5: Blank

8.Troubleshooting

Following are a few common problems that may occur during operation. Here are some suggestions for easy troubleshooting:

A. The fixture does not work, no light

1. Check the connection of power and main fuse.
2. Measure the mains voltage on the main connector.

B. Not responding to DMX controller

1. DMX LED should be on. If not, check DMX connectors, cables to see if link properly.
2. If the DMX LED is on and no response to the channel, check the address settings and DMX polarity.
3. If you have intermittent DMX signal problems, check the pins on connectors or on PCB of the fixture or the previous one.
4. Try to use another DMX controller.
5. Check if the DMX cables run near or run alongside to high voltage cables that may cause damage or

interference to DMX interface circuit.

9. Fixture Cleaning

The cleaning of internal must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates: damp, smoky or particularly dirty surrounding can cause greater accumulation of dirt on the fixture's optics.

- Clean with soft cloth using normal glass cleaning fluid.
- Always dry the parts carefully.
- Clean the external optics at least every 20 days. Clean the internal optics at least every 30/60 days.

Declaration of Conformity

We declare that our products (lighting equipments) comply with the following specification and bears CE mark in accordance with the provision of the Electromagnetic Compatibility (EMC) Directive 2004/108/EC.

EN55103-1: 2009 ; EN55103-2: 2009;
EN61000-3-2: 2006 + A1:2009 + A2:2009; EN61000-3-3: 2008.

&

Harmonized Standard

EN 60598-1:2008 + All:2009; EN 60598-2-17:1989 + A2:1991;
EN 62471:2008; EN 62493: 2010
Safety of household and similar electrical appliances
Part 1: General requirements

Innovation, Quality, Performance