



The Foundation

User Manual

LED Battery Slim “*Par*” Fixture (RGBA, DMX 7Ch/4CH)



I. Security:

1. Make sure the user voltage cannot higher or lower than the regulating voltage.
2. Please use proper and safe AC cord to connect the product, use a plug to connect the cord to the power supply. Don't drag the cord or pull the plug.
3. Make sure to shut off the power supply when stop using the light and before cleaning.
4. Make sure there is no combustible or explosive object around 0.5 meters.
5. Do not amend the light by unprofessional person. It may cause short circuit, combustion or electric shock etc., and it is not in guarantee in this case.

II. Unpacking:

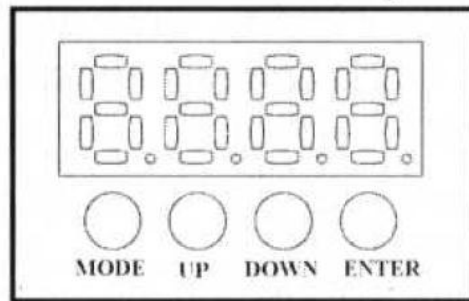
The light 1pc
DMX cable 1pc
Power cable 1pc
Battery recharger 1pc
User Manual 1pc

III. Technical Parameters:

1. Light Source: 186pcs of 10mm high light LED lamps
2. Power supply methods: 1). AC power 2). Battery
3. Battery: support time: 5 hours
4. Recharger: 6 hrs.; red, recharging; blue, finishing recharging
5. Color Range: 16.7 million RGB colors
6. Beam Angle: 30 degrees default
7. LED life time: 60,000 hours
8. Battery life time: 600 times recharge
9. Dimmer: 0-100% with regulated constant color control
10. Power consumption: 20W
11. Control panel: 4 Digital LED display figures
12. Input voltage: AC 220-240V 50Hz/ AC100- 120V, 60Hz
13. Cover: Aluminum die- casting
14. Maximum Ambient Temperature: 45 C
15. Product dimension : L26*W11.2*H22.5 CM
16. N.W.: 2.5 KGS

IV. Brief Introduction:

There are four LED tubes digital figures on the back panel of the light. The functions are MENU, UP, DOWN, ENTER (as below).



There are total 11 modes for control. The control mode is displayed by the first number. When you press “MENU”, the number will increase one gradually from “0” to “9” in circle. Enter into the mode to adjust the effect you need.

1. “0---” Mode of Sound Activation
2. “1---” Mode of DMX 512 Control
3. “2---” Mode of adjusting brightness of red
4. “3---” Mode of adjusting brightness of green
5. “4---” Mode of adjusting brightness of blue
6. “5---” Mode of adjusting brightness of amber
7. “6---” Mode of choosing colors for strobe
8. “7---” Mode of choosing how many colors for color change
9. “8---” Mode of choosing how many colors for Gradual Color Change
10. “9---” Mode of speed for strobe/ Color Change/ Gradual Color Change
11. “C---” Color Picker
12. Master- slave control mode

V. Introduction of Using:

1. “0..” Mode of Sound Activation

Press “MENU” until it is “0” and the other digits are “—”. Press “ENTER” to sound activity mode. In sound activity mode, the other three numbers mean the sound activity’s sensitivity. Press “UP” or “DOWN” to adjust the sensitivity. The smaller number it is, the more sensitive it will be.

2. “1..” Mode of DMX 512 control

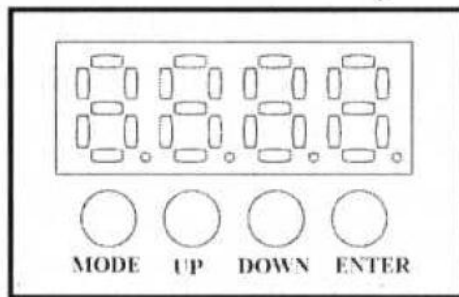
Press “MENU” until it is “1” and the other digits are “..”. Press “ENTER” into DMX control mode. In DMX control mode, the other three numbers indicate the DMX address of the light. Then press “UP” and “DOWN” to adjust the DMX address code. (NOTE): When the decimal point on the LED display is off, that is 7CH Mode. When the decimal point on the LED display

is on, that is 4CH Mode. Press “ENTER” and “DOWN” at the same time to choose 7CH Mode or 4CH Model:

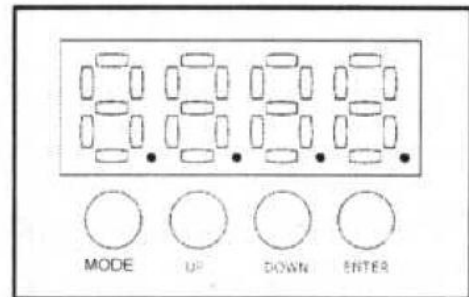
[NOTE]: When the decimal point on the LED display is off, that is 7CH Mode. When the decimal point on the LED display is on, that is 4CH Mode.

Press “ENTER” and “DOWN” at the same time to choose 7CH Mode or 4CH Mode.

7 CH Mode:



4 CH Mode:



- DMX 7CH MODE:

CH1- General Dimmer (1-255, dimmer, from dark to bright)

CH2- RED (1-255, dimmer, from dark to bright)

CH3- GREEN (1-255, dimmer, from dark to bright)

CH4- BLUE (1-255, dimmer, from dark to bright)

CH5- AMBER (1-255, dimmer, from dark to bright)

CH6- Strobe & Color change/ color gradual change mode

0-49: All strobe, the brightness of each color is adjustable

50-100: color change strobe, the brightness of each color is adjustable.

101-150: 4 basic colors change, the brightness

151-200: 9 colors change, the brightness of each color is adjustable

201- 250: 9 colors gradual change

251-255: mixed colors gradual change

CH7- Strobe/ color changing/ colors gradually changing speed adjustable (1-255, from slow to fast)

- **DMX 4CH MODE:**
CH 1- RED (1-255, dimmer, from dark to bright)
CH2- GREEN (1-255, dimmer, from dark to bright)
CH3- BLUE (1-255, dimmer, from dark to bright)
CH4- AMBER (1-255, dimmer, from dark to bright)

3. “2---” Mode of adjusting brightness of red

Press “MENU” until it is “2” and the other digits are “..”. Press “ENTER” into adjusting the brightness of red. Then press “UP” or “DOWN” to adjust the color of green.

4. “3---” Mode of adjusting brightness of green

Press “MENU” until it is “3” and the other digits are “..”. Press “ENTER” into adjusting the brightness of red. Then press “UP” or “DOWN” to adjust the color green.

5. “4---” Mode of adjusting brightness of blue

Press “MENU” until it is “4” and the other digits are “..”. Press “ENTER” into adjusting the brightness of red. Then press “UP” or “DOWN” to adjust the color of blue.

6. “5---” Mode of adjusting brightness of amber

Press “MENU” until it is “5” and the other digits are “..”. Press “ENTER” into adjusting the brightness of red. Then press “UP” or “DOWN” to adjust the color amber

7. “6---” Mode of choosing the kinds of different colors for strobe

Press “MENU” until it is “6” and the other digits are “..”. Press “ENTER” into the mode. Press “UP” or “DOWN” to choose the colors of strobe. There can be 1-9 colors take part in strobe. When it is 6010, means all colors on for strobe.

8. “7---” Mode of choosing how many colors for Color Change

Press “MENU” until it is “7” and the other digits are “..”. Press “ENTER” into this mode. Press “UP” or “DOWN” to choose number for how many colors that take part in Color Change. There are 2-9 colors optional.

9. “8---” Mode of choosing how many colors for Gradual Color change

Press “MENU” until it is “8” and the other digits are “..”. Press “ENTER” into this mode. Press “UP” or “DOWN” to choose how many colors take part in for Gradual Color Change. There are 1-9 colors optional. When it is 8010, it is mixed colors Gradual Color Change.

10.

10. “9---” Mode of speed for Strobe/ Color Change/ Gradual Color Change

- (1) From “6” switch to “9”, adjusting the speed of strobe
 - (2) From “7” switch to “9”, adjusting the speed of Color Changing
 - (3) From “8” switch to “9”, adjusting the speed of Gradual color change.
- Press “MENU” until it is “9” and the other digits are “..”. Press “ENTER” into the mode.
Then press “UP” or “DOWN” to adjust the speed of Strobe/ Color Change/ Gradual Color Change, the more value the faster the speed.

11. “C---“ Color Picker

Button NO.	Color	DMX Value
C---		
C000	No Light	
C001	RGBA	All 100%
C002	R	
C003	G	
C004	B	
C005	A	
C006	RG	
C007	RB	
C008	RA	
C009	GB	
C010	GA	
C011	BA	
C012	RGB	
C013	RGA	
C014	GBA	
C015	RBA	

12. Master-Slave Control Mode

Connect all the lights with DMX signal cables. Choose one as the master light, the others as slaver lights. Set all the slaver lights to “1001”. Operate the master light, so all the slavers do the same as the master.

[NOTE]: There should be only one master light in one circuit line

The slaver lights should be under DMX 7CH mode, not DMX 4CH mode.

Declaration: Under the mode of master-slave, the synchronic effect is not as good as under the DMX mod. Especially for gradual color change, the master will always be a little more advanced than the slaves.

13. Saving Function:

After adjusting the state that you like, press “ENTER” and “UP” at the same time, so that the present state will be saved. The saved state is the state power on next time.

[NOTE]: The MODE 9 cannot be saved

14. Recharger:

When recharging, the red light indicator on the charger is on. When the battery is fully charged, it stops recharging and the blue indicator turns on. Recharging time is around 6 hours.

VII. Wireless Control:

Introduction of wireless control board:

1. Interface
2. LED Indicator
3. ID Adjusting Button
4. Hole for Fixation
5. Antenna
6. Antenna Receiver

Wireless Control Board Characteristics

- Name: 2.4G wireless DMX transmit and receive board
- Compact in size, suitable to install inside the fixture
- Single button operation, tri-color LED display
- Transfer standard DMX data, also can transfer the data among the network lights
- Select for interference-free frequency automatically 126 frequency range; ensure reliability in communication
- 7 Groups of ID are selectable. The user has 7 groups of wireless network without interference in the same place.
- Input voltage: DC 5V
- Working frequency: 2.4G, ISM, 126 frequency range
- Max sending power: 20dBm
- Receiving sensibility: -94dBm
- Signal interface: RS485 or CPU serial port AURT

Operation Introduction:

1. ID Number and LED indicator synopsis
 - a) Red
 - b) Green
 - c) Yellow
 - d) Blue
 - e) Purple
 - f) Cyan
 - g) White
2. Press the button once, it will show the present ID. Press once more and the ID will increase by one.
3. Working state from the LED indicator
 - a. Retains on: no DMX or no wireless signal
 - b. Red flash: sending signal
 - c. Green flash: receiving signal
4. Signal Frequency: 2.400-2.525G, total 126 frequency range, selected automatically.
5. ID Setting- “1-7”, press “KEY” to adjust, only the identical ID number can communicate.
6. Setting up communication:
 - a. Connect the transmitter with the DMX desk (controller).
 - b. Turn receiving power to “ON” on the transmitter.
[NOTE]: The receiver turns on when the light is powered on.
 - c. Set the same ID on the transmitter as the receivers. If more than 1 wireless network is being used in the same place, each network ID should be different.
 - d. Operation of lights is controlled through DMX desk (controller). After the transmitter receives the DMX data from the desk, it will choose an interference-free frequency to send data. When the red LED on the receiver flashes, the receiver searches the frequency upward until it receives the correct frequency. At that moment, the green indicator will begin to flash. The faster the DMX data transfers, the faster the indicator flashes.
 - e. The communication is set up successfully.
7. The wireless receiver is compatible with the following controllers:
 - a. DMX 1314 (ID:1-7)
 - b. DMX 1315 (ID: 0-15)
 - c. DMX 1316 (ID:1-7)

VIII. Technical Parameters

- 1.** Light Source: 186pcs F 10mm RGBA LED
 - a. 45R, 47G, 47B, 47A
- 2.** Color Range: 16.7 million additive RGBA colors; continuously variable intensity (256x256x256=16777216)
- 3.** Beam Angel: 30°
- 4.** Control Panel: Digital lifetime 60,000 hours
- 5.** Dimming: 0-100% with regulated constant color control
- 6.** Strobe: 10 Flashes per second, any color
- 7.** Power Supply: 35W
- 8.** Operation Mode: DMX 512, Manual, Sound, Internal Program
- 9.** DMX Control: 7/4 CH
- 10.** Battery:???
- 11.** Input Voltage: AC90-240V/50-60HX (Power Switch, Auto Change)
- 12.** Housing: Aluminum Alloy, Black/White
- 13.** Maximum Ambient Temperature: 40°C