

32W RGBW FIBER LIGHT OPTICS

User Manual

Model: QJ-FB32RGBWRFDMX

Technical Specification

Input voltage: AC86-265V

COLOR: RGBW

Output gray level: 256

Output DMX : 4 channels(RGBW)

Net Weight: 680g

Light source device size: L150*W95*H55mm

Light body material: Aluminum

Remoter dimension: L85× W52 × H7mm

Lifetime: 50,000 hours

POWER: 32W

LED: RGBW LED

Input Signal: DMX512/1990

DMX512 socket standard XLR;

Gross Weight: 750g

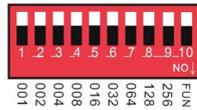
Fiber head inner diameter: 16-20mm

Remote: RF

Package Size: L220*W127*H65mm

Warranty: 2 years

MODE1:DMX MODE



Note: FUN = OFF (the tenth code switch up) means to accept DMX512 signal mode

The first DMX address setting:

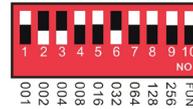
The decoder set the address bit by coding switch, of which 1-9 is for setting the start address of the Binary numeric code switch of DMX512, the first one is the lowest position, the ninth one is the highest

Bit of address code can be set to 512.

DMX512 start address code is the sum of switches 1-9, at the same time turn downside of the code switch (ON set to "1"), then the value of the bit can be gotten; coding switch up (set to "0"), the value of the bit is 0.

Example 1:

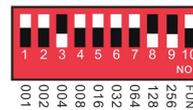
As the following Schematic 1, DMX512 start address is set to 38, encoding the No. 6,3,2 position on switch dial to "1", others set to "0", then the sum of the switch 1-9 code value is $32 + 4 + 2$, that is the DMX512 start address 38



Schematic 1

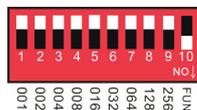
Example 2:

As the schematic 2, DMX512 start address is set to 388, encoding the no. 2,3,6,8 switch dial to "1", others set to "0", then the sum of the switch 1-8 code value is $4 + 128 + 256 = 388$, that is the DMX512 start address 388.



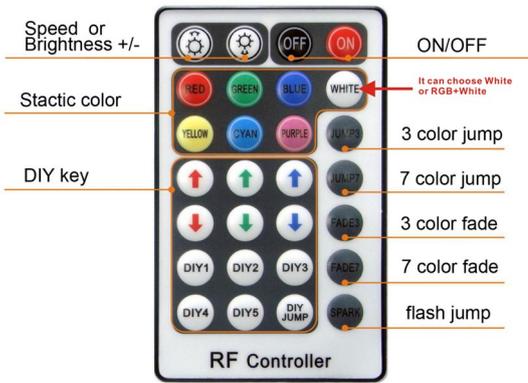
Schematic 2

MODE2:RF MODE



Note: It will be rf mode when the No. 10 switch is turned down.

Remote instructions:



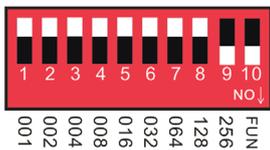
Match Code Function (It is available when leave factory)

1.Power on led engine, it works well when red indicated lights.

2.Press the FADE3 and FADE7 at same time in the effective remote distance, the white color of led engine flash. The code matches success.

RF28 key remote control function	Key function details specification
ON/OFF	Turn ON/OFF the controller
Speed/brightness adjust key	Press this two keys to increase/decrease the brightness when in static mode, Press these two keys to increase/decrease the changing speed when in dynamic mode
static color mode	brightness is adjustable
DIY brightness adjust key	Press the DIY key to address the Green,Red, Blue color brightness to choose the specific color
DIY mode key	Press the key to save the DIY color you adjust be the DIY brightness adjust key
DIY JUMP	Press the key to realize all the color setting by DIY to JUMP
3 color JUMP	Red,Green,Blue color jump
7 color JUMP	Red,Green,Blue,Yellow,cyan,purple white color jump
3 color fade	Red,Green,Blue color fade
7 color fade	Red,Green,Blue,Yellow,purple,cyan, white color fade
SPARK Dynamic mode	7 color flash Jump
white mode	white,rgb+white change

MODE3:Built-in effects Mode



Effect choice (button switch No.1 to No.4):12 kinds

1. Push No.1: Seven-color gradual cycle changing.
- 2.Push No. 2: RGB Fade in and out
3. Push No.1 & 2: Severn color jumping
4. Push No.3: RGB jumping.
5. Push No.1 & 3: RGB flash jumping.
6. Push No.2 & 3: Static red
7. Push No. 1 & 2 & 3:Static green
8. Push No.4: Static blue
9. Push No.1 & 4: Static yellow
10. Push No.2 & 4: Static purple
11. Push No.1 & 2 & 3: Static cyan
12. Push No.3 & 4: Static white

Speed Choices (Button Switch No.5 to No. 7) 8 kinds

- 1.Push No.5: 0.5 second. 2. Push No.6: 1 second. 3. Push No.5,6: 1.5 second. 4. Push No.7: 2 second.
- 5.Push No.5: 0.5 second. 6. Push No.6: 1 second. 7. Push No.5,6: 1.5 second. 8. Push No.7: 2 second.

Application Connection Diagram

1.DMX MODEL

2.RF MODEL

3.BUILT_IN MODEL

Maximum fiber connection formula:

Fiber head' s radius: R

Fiber Diameter: D1, D2,D3.....

Fiber quantity:N1, N2, N3.....

Result: $\pi * R * R \geq N1 * D1 * D1 + N2 * D2 * D2 + N3 * D3 * D3$

Example:

fiber head' s radius (Diameter 20mm)

Fiber Diameter:0.75mm,1.0mm,1.5mm

Fiber Quantity:150mm, 50mm,10mm.....

Result: $3.14 * 10 * 10 \geq 150 * 0.75 * 0.75 + 50 * 1 * 1 + 10 * 1.5 * 1.5$

fiber head inner diameter : 16-20MM

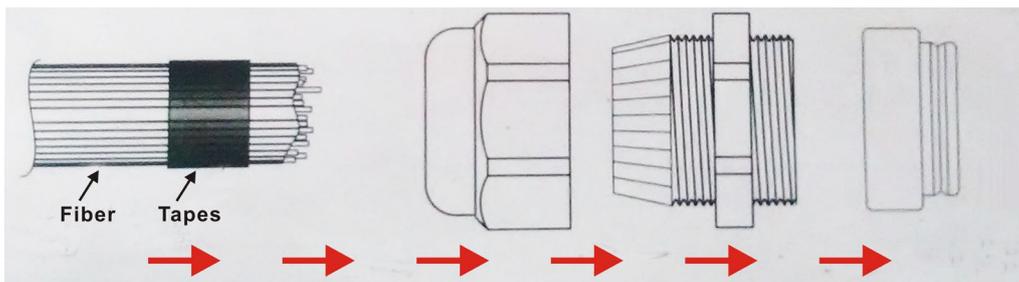
The number of optical fiber can be installed:

PGConnector inner diameter(MM)	fiber diameter(MM)	max fiber number
16-20	0.75	450
16-20	1	250
16-20	1.5	100
16-20	2	60

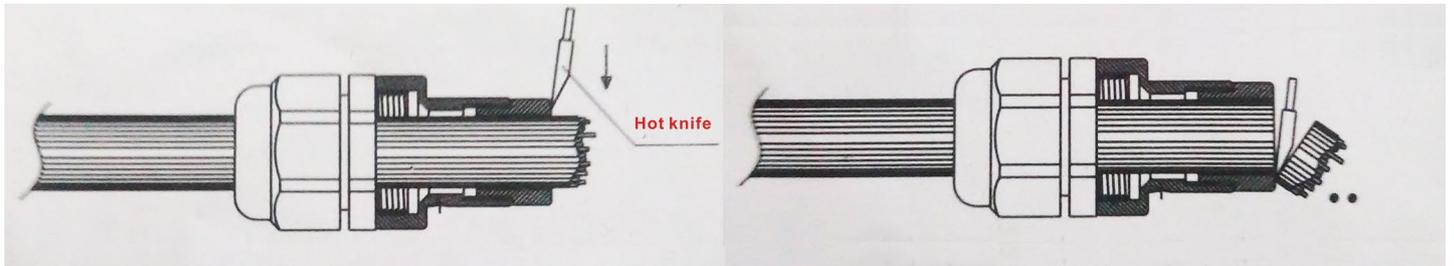
Connection method between Fiber and Led engine:

1.Align all the fiber head, fasten with tapes which can resistance temperature over 130°C

2.Pass through the fiber to connector, fastening rotary tensioner. To make sure the fiber bunch could not move and each fiber must be in the same plane.



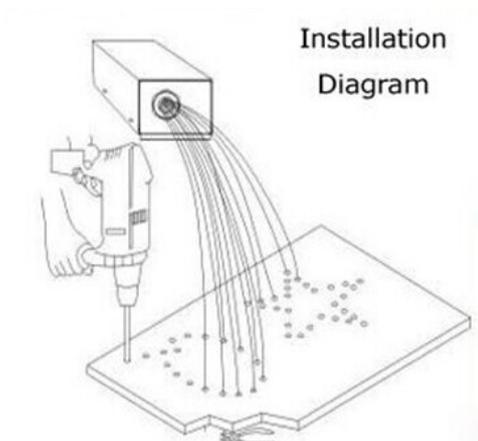
3.Cut the fiber bunch to flat surface by heat-knife or blade.



4. Make sure the fiber bunch head is smooth and clean. Thus each fiber's light will be evenly.

5. Put through the whole fiber connector to fix ring of Led engine. Fasten screw on the top of the fix ring.

Application installation diagram:



Attention:

1. Make sure the input voltage is correct.
2. Put led engine in the rain or moist place is prohibited
3. Please don't open led engine for inspection or change the electronic circuits if you are not professionor.
4. Led engine has to be good ventilation, please don't put at sealed place.
5. Put debris on top of led engine or around it will be caused poor heat dissipation.