50W RGBW TWINKLE FIBER OPTICS LIGHT
User Manual

Model：QJ-FB50RGBWRFDMXT

Techincal Specification

Input voltage:AC86-265V	POWER：50W
COLOR：RGBW	LED：RGBW LED
Output gray level:256	Input Signal:DMX512/1990
Output DMX:5 channels	DMX512 socket standard XLR;
Net Weight:1.0KG	Gross Weight：1.8KG
Light source device size：L150xW150xH90mm	Fiber head inner diameter：29mm
Light body material:Aluminum	Remote:RF
Remoter dimension：L85xW52xH7mm	Package Size：L300xW200xH14.5mm
Lifetime:50, 000 hours	Warranty:2 years

MODE1:DMX MODE

Attention　Light source unit Occupancy 5 bits address.
The first bit is red light,The second bit is green light,the
third bit is blue light ,the fourth bit
is white,and the fifth bit is motor speeds(four levels)

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.
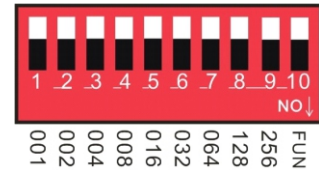

Example 1:

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
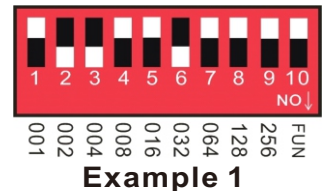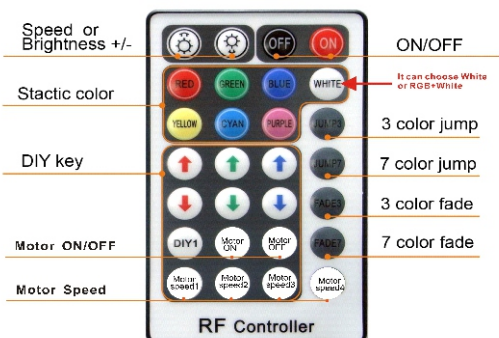

Example 1

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.

Example 2
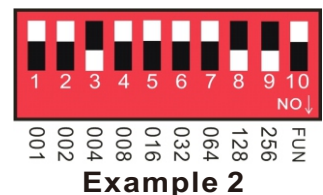
MODE2:RF MODE

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

| RF28 key remote control function	Key function details spécification
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	R:10% G:30% B:50% YELLOW:70% CYAN:80% PURPLE:90% W:100% 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
white mode	white
flash	white flash
Jump	white jump
fade	white fade
Jump+fade	white Jump and fade
Motor ON/OFF	Turn ON/OFF the motor
Motor speed	Four kinds of the speed about the motor

Match Code Function (It is available when leave factory)

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

2. Press the FADE 3 and FADE7 at same time in the effective remote distance, the white color of led engine flash. The code matches success.

MODE3:Built-in effects Mode
Attention:
1:1-4bit is mode   2: 5-6 bit is mode's speed
3:7-8 bit is motor speed.
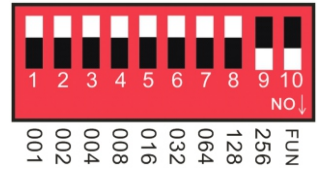
Effect choice (button switch No.1 to No.4):12 kinds
1. Push No.1: Seven-color gradual cycle changing.   2.Push No. 2: RGB Fade in and out.
3. Push No.1 &2: Severn color jumping.   4. Push No.3: RGB jumping.
5. Push No.1 & 3: RGB flash jumping.   6. Push No.2 & 3: Static red.
7. Push No. 1 & 2 & 3:Static 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. 6) 4 kinds
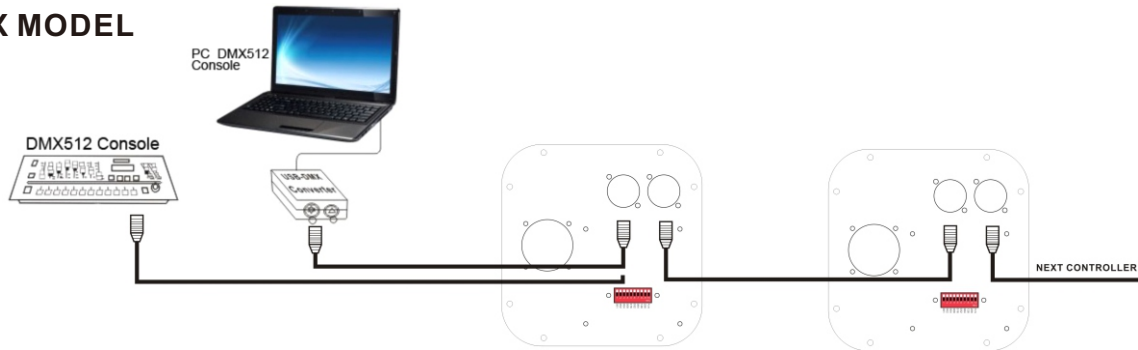1. Push No.OFF: 0.5 second.   2.Push No.5: 1 second.   3. Push No.6: 1.5 second.
4. Push No.5,6: 2 second.
Motor Speed Choices (Button Switch No.7 to No. 8) 4 kinds
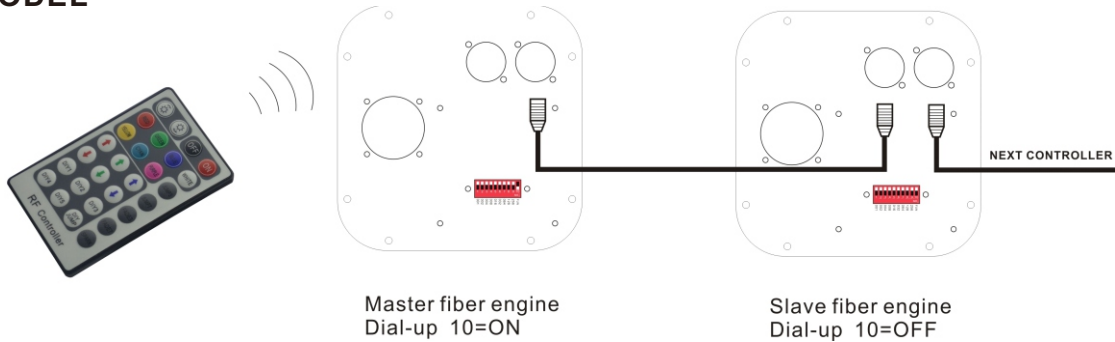1.Push No. OFF:motor off.   2. Push No.7:speed 1.   3. Push No.8: speed 2.
4. Push No.7,8: speed 3.

Application Connection Diagram
1.DMX MODEL
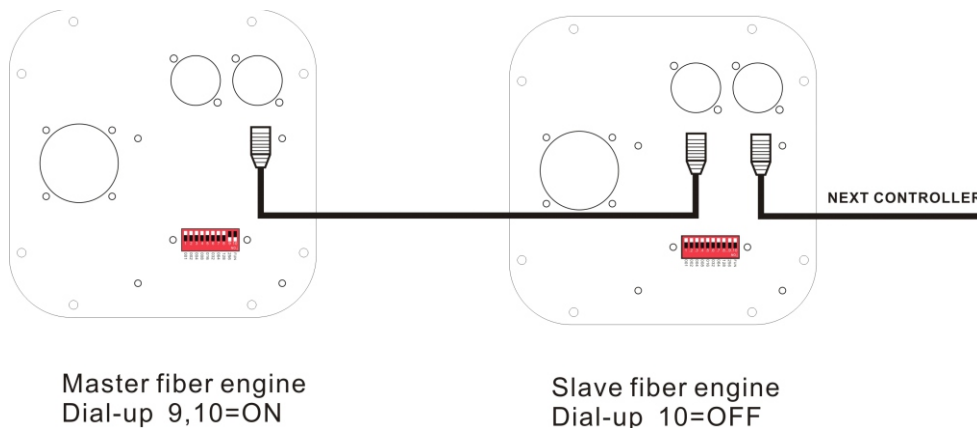
2.RF MODEL

Master fiber engine
Dial-up 10=ON

Slave fiber engine
Dial-up 10=OFF

3.BUILT_IN MODEL

Master fiber engine
Dial-up 9,10=ON

Slave fiber engine
Dial-up 10=OFF

Maximum fiber connection formula:

Fiber head's radius: R
Fiber Diameter: D1,D2,D3......
Fiber quantity:N1,N2,N3......
Result:ПxRxR≥N1xD1xD1+N2xD2xD2+N3xD3xD3......
Example:
fiber head's radius(Diameter 20mm)
Fiber Diameter:0.75mm,1.0mm,1.5mm
Fiber Quantity:150mm 50mm,10mm......
Result:3.14x10x10≥150x0.75x0.75+50x1x1+10x1.5x1.5
fiber head inner diameter : 16-20mm

PGConnector inner diameter(mm)	Fiber diameter(mm)	Max fiber number
29	0.75	1100
29	1	660
29	1.5	290
29	2	160

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.
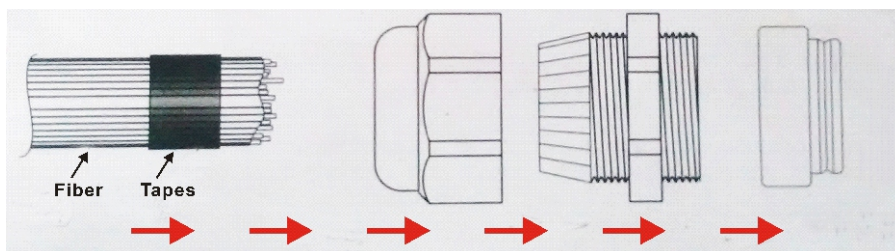
1.Cut the fiber bunch to flat surface by heat-knife or blade.
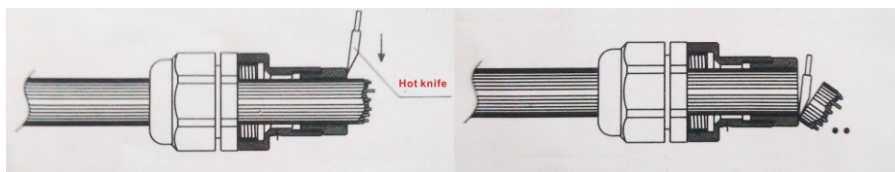
4.Make sure the fiber bunch head is smooth and clean. Thus each fiber's light will be evenly.
5.Put through the whole fiber connector to fix ring of Led engine. Fasten screw on the top of the fix ring.

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.

Installation Diagram