USER MANUAL

WQ818
(LED Flat-Par-Q818-18x8W)

Catalogue

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Please read over this manual before operating the light

1. Summarization

➢ Summarization

Thank you for purchasing our **WQ818** lighting. Please read these instructions carefully before begin and operate the fixtures according to these instructions to avoid any possible damages and accidents causes by misusage.

➢ Products introduction

This product has a light body and fashion design. It uses high power 4-in-1 LED, which means each LED is made of R,G,B,W LED chips. Long life span, low power consumption, good color mixing effect and high brightness are the most prominent features. Each kind of LED can be independently dimmed. The built-in program includes dimming, strobe, gradual change, fading and so on. It uses power switch, performs low weight and consumption, stable capability and long life. International standard DMX 512 signal is requested.

➢ Packing list

- **WQ818** 1PC
- DMX signal cable 1PC
- Power-in cable 1PC
- The User Manual
- Warranty Card

2. Safety Instruction

➢ Safety Notes

! Enquire the skilled people before any repair;

! Always make sure disconnect from the power source before setting up, serving and moving;.

! Avoid direct eye exposure to the fixture when it is on;

➢ Safety instruction

● Make sure the power supply voltage are consistent with this lights，Ensure the use of voltage is in the range of the request technical parameter.

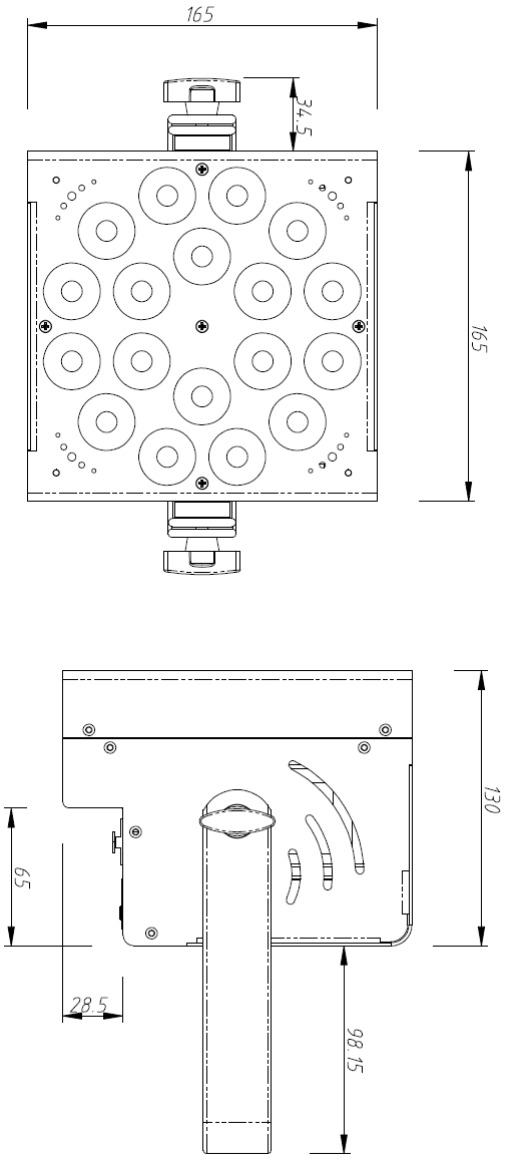
●Before the installation, please check the light's fasteners and mechanical structure have been received in good condition and appear no damage.

●This light is designed for indoor use; working temperature is lower than 50 degree.

●The fixtures maybe mounted in any position provided there is adequate room for ventilation. Make sure there are no inflammable and explosive items (ornaments) in 0.5 meters away.

●Yellow / green cabling earthling safety; no flicker when the fixture is working on.

3. outside Size Picture



WQ818

4. Main Function

- high quality LED: low consumption, High brightness, stable capability and long life
- each color of LED with 32-bit, 16666 grades dimming. RGBW can make over 16.7 million colors
- dim 0%-100%, Strobe、gradual change、jumping change
- DMX512 Controller，4 button set DMX ID address with led display
- auto run /sound activated/master slave/interconnected multi-machine control
- using switching power supply to protect the LED to work well
- lens degree: 25º、45º optional
- 3、4、5、8、9 CH DMX control channel optional

5. DMX Control Function

- DMX Channel（3CH）

Channel	DMX Value	Control Function	Remarks
1CH	0-255	RGB color mixing	Hue
2CH	0-255	W Dimming 0-100%	Color Saturation
3CH	0-255	General dimming 0-100%	purity

Note: Chromaticity represents visible light, such as red, green, yellow, cyan etc.Color saturation refers to the proportion of color chromaticity possession, 100% saturation means the color has reached the pure color. Purity value refers to the brightness, when purity reaches 100%, the color is the brightest.

- DMX Channel（4CH）

Channel	DMX Value	Control Function	Remarks
1CH	0-255	R 0-100%	
2CH	0-255	G 0-100%	
3CH	0-255	B 0-100%	
4CH	0-255	W 0-100%	

- DMX Channel（5CH）

Channel	DMX Value	Control Function	Remarks
1CH	0-255	General dimming	
2CH	0-255	R 0-100%	
3CH	0-255	G 0-100%	
4CH	0-255	B 0-100%	
5CH	0-255	W 0-100%	

- DMX Channel（8CH）

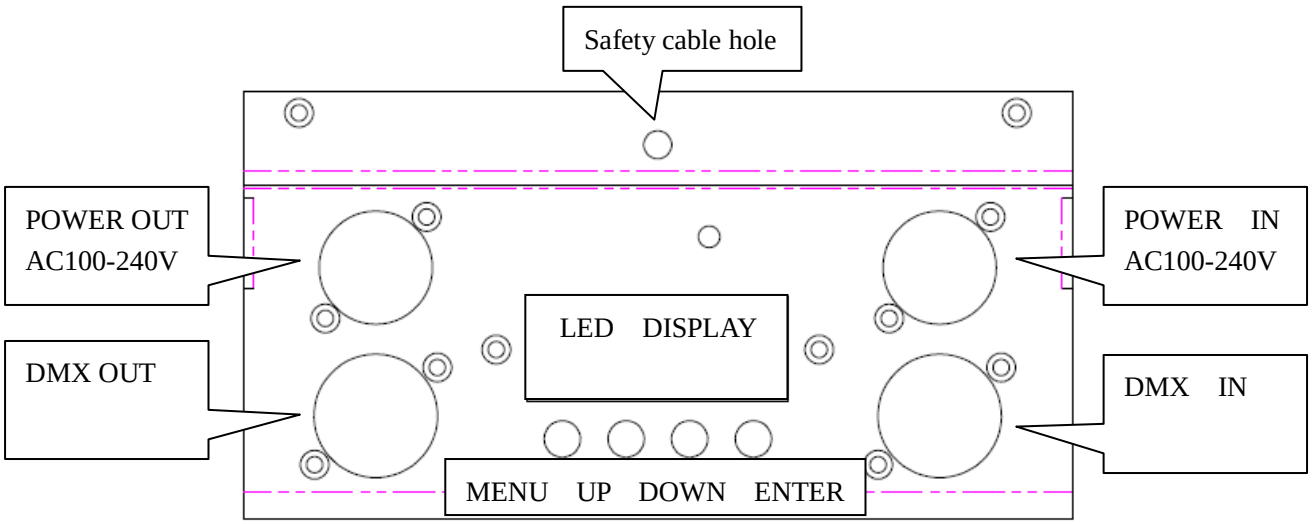
Channel	DMX Value	Control Function	Remarks	Priority
1CH	0-255	（General dimming）		1
2CH	0-255	Red dimming 0——100%		
3CH	0-255	Green dimming 0—100%		
4CH	0-255	Blue dimming 0—100%		
5CH	0-255	White 0——100%		
6CH	0-14	Dimming	When 7CH>31，this function is invalid.	2
	15-255	Strobe Speed		
7CH	0-31	Invalid		3
	32-63	From dark to bright	Must use CH1,2,3,4,5CH, otherwise no light. From the 8CH, start the speed adjustment.	
	64-95	From bright to dark		
	96-127	From dark—bright—dark		
	128-159	RGB Gradient	Speed adjustment from 8CH	
	160-191	dark—bright—dark auto run		
	192-223	4 colors jumping change		
	224-255	Multi-colors jumping change		
8CH	0-255	Speed Adjustment（7CH）		

- DMX Channel（9CH）

Channel	DMX Value	Control Function	Remarks	Priority
1CH	0-255	（General dimming）		1
2CH	0-255	Red dimming 0——100%		

3CH	0-255	Green dimming 0—100%		
4CH	0-255	Blue dimming 0—100%		
5CH	0-255	White 0——100%		
6CH	0-14	Dimming	When 7CH>31，this function is invalid.	2
	15-255	Strobe Speed		
7CH	0-31	Invalid		3
	32-63	From dark to bright	Must use CH1,2,3,4,5CH, otherwise no light. From the 8CH, start the speed adjustment.	
	64-95	From bright to dark		
	96-127	From dark—bright—dark		
	128-159	RGB Gradient	Speed adjustment from 8CH	
	160-191	dark—bright—dark auto run		
	192-223	4 colors jumping change		
	224-255	Multi-colors jumping change		
8CH	0-255	Speed Adjustment （7CH）		
9CH	0-5 6-55 56-105 106-155 156-205 206-255	Set by LED display DIMMER0 DIMMER1 DIMMER2 DIMMER3 DIMMER4		

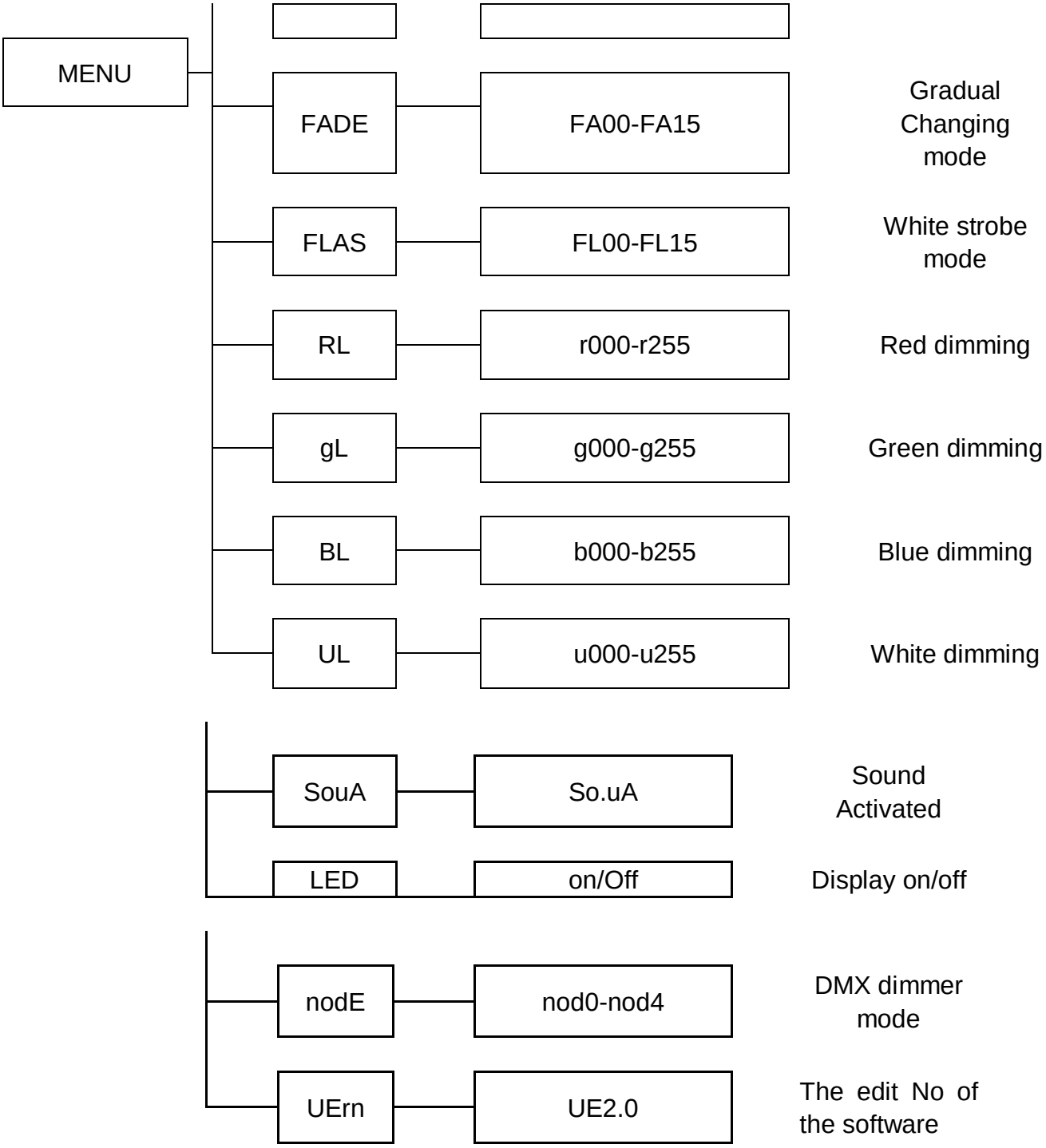
6. Display Operation



- MENU : access the menu or return to a previous menu option
- ENTER: select the current menu option
- UP: menu selection or parameter increments
- DOWN: menu selection or parameters decrease

7. Menu Instruction

Addr	d001-d512	DMX Mode
SLAV	SL.AU	Slave receiving mode
CHNd	3CH\4CH\5CH\8CH\9CH	DMX channel
SP--	SP00-SP15	Built-in program speed
Pr--	Pr00-Pr30	Built-in program
ASC	AC00-AC15	Color Jumping



1. Operating instruction:

MENU（UP/DOWN）+ENTER+UP/DOWN）+ENTER

Remark: Exp: Select the DMX mode, Here are the operation details:

- Press the MENU, go back to the initial setting
- Press UP/DOWN, display “Addr”
- Press ENTER to change the content, the display will flash at this moment

- Press UP/DOWN to change the address code to select d001
- Press ENTER to select and store the current menu options. DMX mode will be stored automatically and the screen will stop flashing.
- Exp：Select DMX Channels optional mode, the operation is as below:
- Press MENU，go back to the initial setting
- Press UP/DOWN，display ”CHnd”
- Press ENTER to change the content, the display will glinting at this moment
- Press UP/DOWN to select the DMX channels that you need, 3CH、4CH、5CH and so on
- Press ENTER select and store the current menu options. DMX mode will be stored automatically and the screen will stop glinting.

Exp：turn off the display, the operation is as below:

- Press MENU，go back to the initial setting
- Press UP/DOWN，display “LED”
- Press ENTER to change the content, the display will flash at this moment
- Press UP/DOWN to select “OFF”
- Press ENTER to confirm, then select the working mode that you need. When stop pressing, the display will turn off after a while. When the display is off, press any button to activate the display. If setting the led to “off”, when stop pressing, the display will turn off after a while.

2、Details of program built inside（Pr- -）

Press MENU, go back to the initial setting

- Press UP / DOWN until Pr--
- Press ENTER to choose, the display will flash at this moment
- Press UP / DOWN to change the address code to select pr00
- Press ENTER to select and store the current menu options. DMX mode will be stored automatically and the screen will stop flashing.

Remark: Pr14--- Pr30 Can change the content Of SP，correct the speed of jumping change , SP00 is the fastest，SP15 is the slowest

- Pr00-Pr13：R,G,B.W single color or multi-colors lighting

- Pr14-Pr28：correspond with the Pr00-Pr13 add the strobe function.
- Pr29：4 colors jumping.
- Pr30：multiple colors jumping

8. Operating Control Instruction

➢ Master/Slave

Master setting：The master should be one of following modes: built-in modes, color jumping Mode, fade mode, white strobe mode and manual dimming mode. It sends out synchronizing signal. To avoid the master signal and DMX512 signal from interfering with each other, we should cut off the DMX512 signal. When the signal cables are longer than 60 meters (32 lamps) , a DMX signal amplifier is necessary.

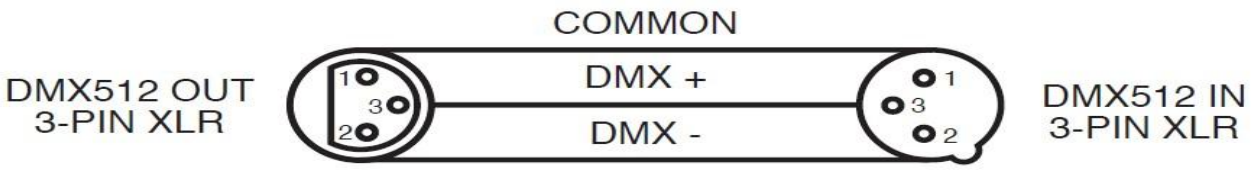
Slave setting：It must be in the SLAV mode to assure receiving the master's signals correctly. Only one light can be set as a Master and others are slaves.

9. XLR cable connecting

➢ XLR cable：

The standard way of connecting the XLR is: one end connects to the male plug, and the other end connects to the female. As bellow: pin 1: ground, pin 2: negative signal, pin 3: positive signal

XLR Pin Configuration
Pin 1 = Ground
Pin 2 = Data Compliment (negative)
Pin 3 = Data True (positive)



Noted：In order to avoid failures and interference signal transmission，we connect a resistance120Ω（1/4W）at the end of the DMX connecting as below:

Termination reduces signal errors and avoids signal transmission problems and interference. It is always advisable to connect a DMX terminal, (Resistance 120 Ohm 1/4 W) between PIN 2 (DMX-) and PIN 3 (DMX +) of the last fixture.

- The Conversion between 3 pin and 5 pin XLR

If the output cable of DMX512 controller is the 5PIN, please use 1pc 5PIN to 3PIN cable

3-Pin XLR to 5-Pin XLR Conversion		
Conductor	3-Pin XLR Female (Out)	5-Pin XLR Male (In)
Ground/Shield	Pin 1	Pin 1
Data Compliment (- signal)	Pin 2	Pin 2
Data True (+ signal)	Pin 3	Pin 3
Not Used		Do Not Use
Not Used		Do Not Use

10. Trouble Shooting

Problem	Checking Way
Can not turn on the light	◆ Check the power source plug is in normal or not ◆ Check the switch of the lights is off or on ◆ Check the fuse if in normal
DMX can not control it	◆ Check the DMX cable is connect to the lights or not ◆ Check the DMX512 controller work in normal or not ◆ Check the DMX cable is normal or not ◆ Check if the lights is in DMX mode（A001）
Display not bright	◆ When connect to the electricity，did the led flash one time? If so，the power source is normal; If not，please check if the switch and the transformer has power out ◆ Check if the power input of the IC board is normal ◆ Check if the cable connect to the display loose ◆ Change the main board to see if it is normal.

	◆ Chang the display
LED not light	◆ When connect to the electricity，did the led flash one time? If so，the power source is normal; If not，please check if the switch and the transformer has power out ◆ Check if the power input of the IC board is normal ◆ Check if the cable connect to the display loose ◆ Change the main board to see if it is normal. ◆ Chang the display
Some of the LED not light	◆ LED is connected by leds in series first, then connect parallel, so please check if the leds is loose ◆ Use the multimeter to check if the led is bright or not, of not, please change the led ◆ check whether current limiting resistor is normal or not ◆ Check constant current IC is normal or not (compared with the normal IC)
Single color leds always bright/not bright	◆ Check the switch of this color is normal or not ◆ Change the IC control board

Noted：only professional persons can do as above！

11. Technical Specification

- Input voltage: AC 100V-264V/47-63HZ
- Output voltage:DC24V
- Consume:160W
- Lamp Type: High Power LED(8W)
- Lamp Spec:4-in-1 8W（18PCS）
- Constant current driver:500MA
- PWM Dimmer:》400HZ(16666 steps)

- Refresh rate:>400HZ
- Life span: 50000~100000hours
- Control Signal：DMX512, sound activated, auto run
- Control mode：stand alone/ sound activated
- Channel：3CH、4CH、5CH、8CH、9CH
- Color effect：RGBW mixing
- Function Effect**:** dimmer, strobe, gradual change, sound activated
- Beam Angle: 25°,45°
- Cooling mode: fan
- Anti-electricity intension：1.5KV
- Insulation Resistance:＞ 2 MΩ
- Size:229*165*228mm
- Net Weight: 3.3KG