USER MANUAL

K64P818RGBW

KANDOlite®

I n d e x

Summarize

Thank you for purchasing our LED PAR 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 introduce

LED K649818RGBW light uses aluminum shell, designed in a fashion of hydrodynamic form. Appearance shows: long can, short can or short can with color filter. It adopts high power 4-in-1 LED, which refers to single LED is made of R,G,B,W LED, And long life span, low 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, eotic, 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

- K64P818RGBW light 1PC
- DMX cable 1PC (Sold separately)
- The use manual
- Warranty Card

Safety Information

! 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 voltages are consistent with this lights，Ensure the use of voltage is in the range of the request technical parameter.

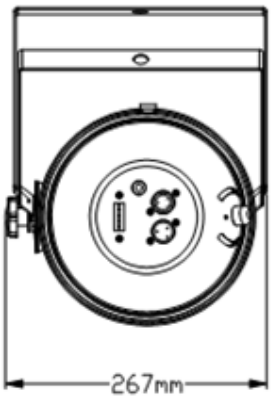
●before the installation, please check the light's fasteners and mechanical structure have been received in good condition and appear no damage.

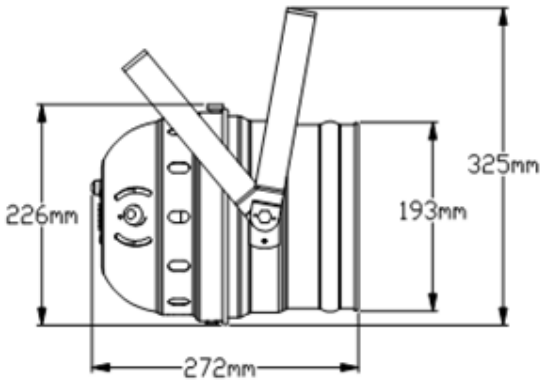
●This light is designed for indoor use, working temperature is lower than 40 degree.

●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.

Outside Size Picture





Main Function

- Each color of LED with 256 dimming. RGB 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 CH DMX control channel optional
- body color: black/white, optional

DMX Control Function

3CH

Channel	DMX Value	Control Function	Remark
1CH	0-255	RGB mixing	tone
2CH	0-255	White 0——100%	color saturation
3CH	0-255	General dimming	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.

4CH

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

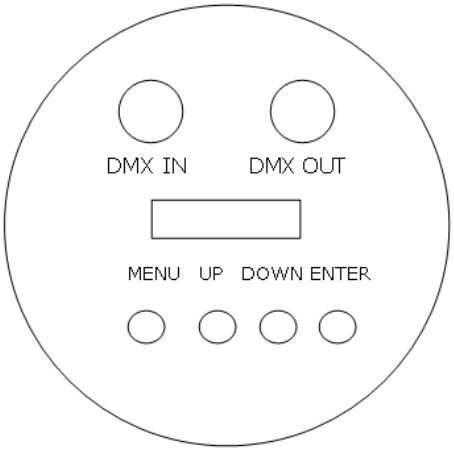
5CH

Channel	DMX Value	Control Function	Remark
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%	

8CH

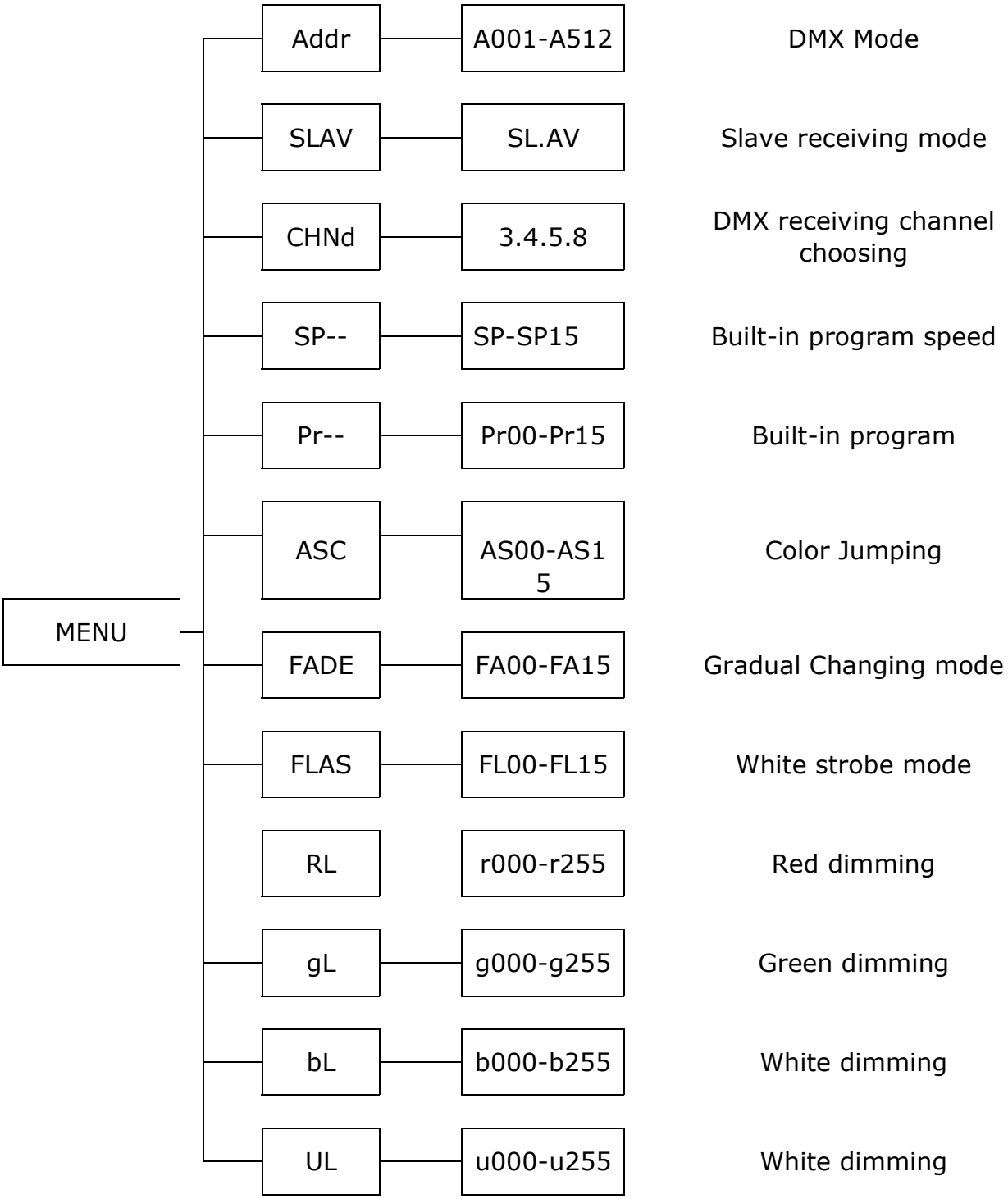
Channel	DMX Value	Control Function	Remarks
1CH	**0-255**	**（General dimming）**	
2CH	**0-255**	**Red dimming 0——100%**	
3CH	**0-255**	**Green dimming 0—100%**	
4CH	**0-255**	**Blue dimming 0—100%**	
5CH	**0-255**	**White 0——100%**	
6CH	**0-14**	**Dimming**	**When 7CH>31，this function is invalid.**
	15-255	**Strobe Speed**	
7CH	**0-31**	**Invalid**	
	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 adustment 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）**	

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

Manual Instruction



Operating instruction

1、MENU is used to access the menu or return to a previous menu option. It can not be used to select and store the current menu option. Press UP / DOWN to choose a desired menu item. Here are the operation details :

- "Addr": DMX mode;（A001-A512）
- "SLAV": Slave receiving mode
- "CHNd": DMX receiving channel choosing（3、4、5、8）
- "SP - -": Modify built-in program speed （SP00-SP15，SP00 is the fastest）
- "Pr- -": Built-in program（Pr00-Pr15 is 16 kinds of programs）
- "ASC-": Multi-color jumping change（AS00-AS15 : speed adjustment）
- "FadE": Gradual change mode（FA00-FA15: modify speed）
- "FLAS": White strobe speed（FL00-FL15: modify speed）
- "rL- -": Adjust red brightness mode（r000-r255, r255 is the brightest）
- "gL- -": Adjust green brightness mode（g000- g255, g255 is the brightest）
- "bL- -": Adjust blue brightness mode（b000- b255, b255 is the brightest）
- "UL- -": Adjust white brightness mode（U000-U255, U255 is the brightest）

2、Press ENTER to access the further menu setting. This process can be saved automatically; that means you will enter the process saved previously when you activate the light next time.

For example, if you want to choose DMX mode A001, operate as follows:

- Press MENU, go back to the initial setting
- Press UP / DOWN until Addr
- Press ENTER to choose, the display will glinting at this moment
- Press UP / DOWN to change the address code to select A001

- Press ENTER to select and store the current menu options. DMX mode will be
    - stored automatically and the screen will stop glinting.
- DMX channel choosing：CHNd mode
- Press MENU，go back to the initial setting
- Press UP/DOWN till "CHNd"
- Press ENTER to choose, the display will glinting at this moment
- Press UP/DOWN to modify DMX receiving channel，3CH、4CH、5CH、8CH
- Press ENTER, if you press ENTER without stop for 3s，DMX channel will be saved and back to DMX receiving mode（A001）, if you press ENTER(with stop) or not press ENTER for 8s，DMX chanel will be choosed and saved, then back to DMX receiving mode（A001）。

3、Details of built-in program（Pr- -）

- Press MENU，go back to initial setting
- Press UP/DOWN till "pr- - "
- Press ENTER to choose, the display will glinting at this moment
- Press UP/DOWN to modify built-in program till "Pr00"
- Press ENTER to select and store the current menu options. DMX mode will be stored automatically and the screen will stop glinting.

Note：

- Pr14--- Pr30 can modify the content of "SP-- -", correct the speed of jumping change , SP00 is the fastest，SP15 is the slowest
- Pr00-Pr13：RGBW single color or multi-color mixing
- Pr14-Pr27：Pr00 - Pr13 corresponds, increasing strobe function
- Pr28：4 colors jumping change

Operating Control Instruction

Master/Slave

Master：The master should set as built-in program and shows" P - X – X" send out synchronization signals. To avoid the host signal and DMX512 signals interfere with each other, should cut off the DMX512 signals. The signal lines are longer than 60 meters should increase a signal amplifier.

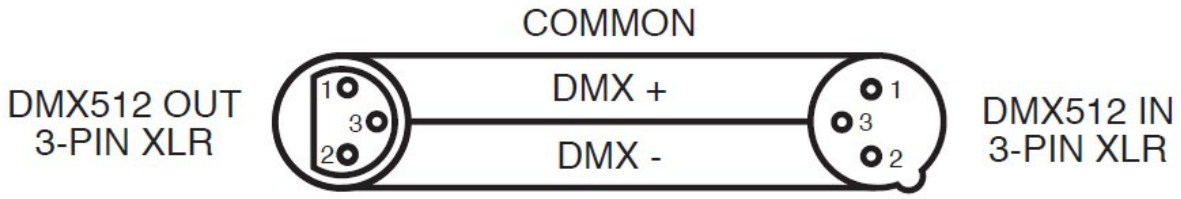
Slave：It must be in the SLAV mode and the address code should be A001 to assure receive the master's signals correctly. Only one light can be set as a Master and others are slaves.

XLR cable connecting

XRL cable：

The stand connection way of the XRL is: one end connects to the male plug, and the other connects to the female.

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.

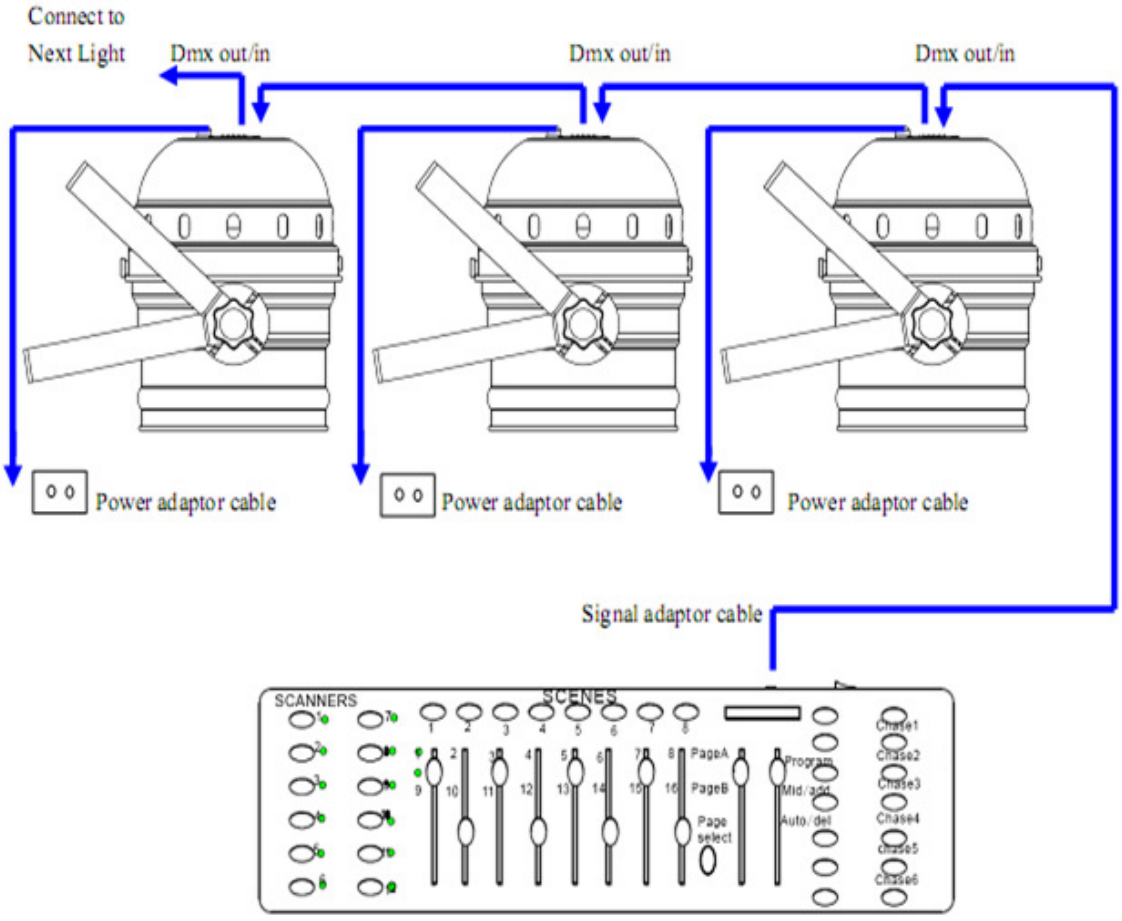
The Conversion between 3pin and 5 pin XLR

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

Connecting picture

Cable connecting picture：



Problem Analyze

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 it 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
	◆ LED is connect by leds in series first, then connect parallel, so please check if the leds is loose

Some of the LED not light	◆ 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 !

Technical Specification

- Input voltage: AC 100-264v / 47-63Hz
- Output voltage: DC24V
- Consume: 144W
- Lamp Type: High Power LED (8W)
- Lamp Spec: 4-in-1 8W（18PCS）
- Constant current driver: 500MA
- Refresh rate : >400HZ
- Life span: 50000~100000hours
- Control Signal：DMX512, sound activated, auto run
- Control mode：stand alone/ sound activated
- Channel：3, 4,5, 8CH
- Color effect：RGBW mixing
- Function Effect**:** dimmer, strobe, eotic, gradual change, sound activated
- Beam Angle: 15°, 25°, 45°
- Cooling mode: Natural Convection
- Anti-electricity intension：1.5KV
- Insulation Resistance: ＞2 MΩ
- Size: 30*22*23cm
- Net Weight: 2.5KG

KANDOlite®