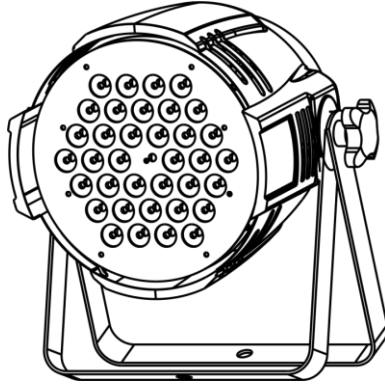# User Manual

WKP-3603

LED PAR 36*3W UV

This product manual contains important information about the safe installation and use of this product. Please read and follow these instruction carefully and keep this manual in a safe place for future reference.

CE RoHS COMPLIANT ♲

2018.03.22

1 Understanding of Product

1.1 Safety Warning

- When unpacking and before disposing of the carton, check if there is any transportation damage before using the product. Should there be any damage caused by transportation, consult your dealer and do not use the apparatus.
- This product is suitable for indoor and outdoor, its protection grade is IP65.
- Do not install the product or project the beam onto inflammable surfaces. Minimum distance is 5 M

  ⊃ 5M ⌀.
- The product is only intended for installation, operation and maintenance by qualified personnel. And read the user manual and labels on the lighting carefully before use.
- Product should install in a cool place. Keep away from the wall 50cm.
- Do not look directly at the lamp light (especially for epilepsy), so as not to cause damage to the eyes.
- Keep the optical system clean. Do not touch the LED lens with bare hands. Do not use any alcohol liquid or any other liquid to clean the optical system. Use medicinal absorbent cotton to clean it.
- Please do not attempt to dismantle and/or modify the product inner structure. Otherwise, would not provide 1 year of free warranty.
- Electrical connection must only be carried out by qualified personnel.
- Before installation, ensure that the voltage and frequency of power supply match the power requirement of the product.
- It is essential that each product is correctly earthed and that electrical installation conforms to all relevant standards.
- Do not connect this device to any other types of dimmer apparatus.
- Make sure that the power-cord is never crimped or damaged by sharp edges. Never let the power-cord come into contact with other cables. Only handle the power-cord by the plug. Never pull out the plug by tugging the power-cord.
- There is no user serviceable parts inside the product, do not open the housing and never operate the product with the cover removed.
- Place the unit where kids can't reach.

If you have any questions, don't hesitate to consult our dealer or manufacturer.

Important: Before any installation, maintenance and cleaning, please ensure that the power cut off!
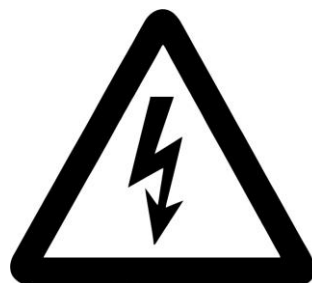
1.2 Main Technical Parameters

Power supply

➢ Rated Voltage: AC90~240V

➢ Rated Frequency: 50~60Hz   ± 10%

➢ Rated Power: 108W

LED

➢ LED Type: 36pcs ×3W   UV

➢ Drive Current: 700mA

➢ LEDs: 395nm

➢ Life: About 50,000 hours

Control

➢ Control Protocol: International standard DMX-512 signal

➢ Channel Protocol: 3 kinds control channel mode. 1CH mode;   2CHS mode,3CHS mode

➢ Control Mode: DMX-512, auto mode, master-slave mode, static mode and LED display screen

Optical System

➢ Dimming mode: Dimmer 0:   fast Linear dimming. Dimmer 1~8: soft Non-linear dimming

➢ Dimmer: From 0~100 linear dimming

➢ Lens: Curved surface efficiency optical reflection cup lens
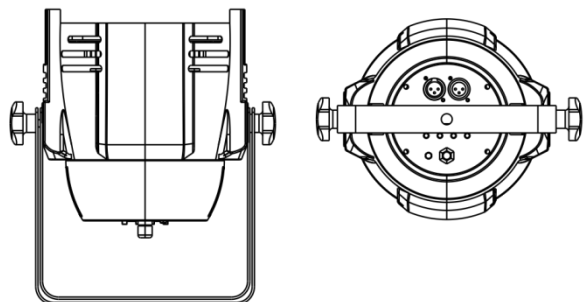
➢ Flashing rate: 1~20Hz

➢ Beam angle: 40°

Physical

➢ Dimensions: 294 x 220 x 324mm

➢ Net Weight: 2.5kgs

➢ Surface Treatment: Aluminum die casting, powder coating

➢ Housing color: Black (Can be customized)

➢ Connection: Signal cable IN/OUT, Power cable IN/OUT
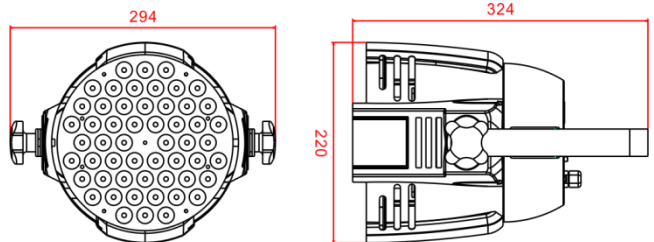
Security

➢ Cooling System: Convection

➢ Temperature Protection: 65℃

➢ Operating Environment: Indoor

➢ Working Temperature:-20°C～40°C

1.3 Product Features

Using the latest LED control technique of Company, newest intelligent LED Par light can realize intelligent operation and control through its special menu at the back. It's more convenient and easy to operate. This product is designed for building large area spread light, large concerts, outdoor landscape lighting, wedding scene, small performances, slow club KTV and various performance occasion. Its main features include:

1) Static color Settings (STATIC).
2) The static power consumption of the control panel only 0.3W, efficiency will reach up to 97%
3) 4K refresh frequency for video camera.
4) Linear Dimming and nonlinear Dimming (DIMMER).
5) Overheating automatic protection function
6) LED display screen.
7) Password protected keyboard.
8) 5 kinds DMX working mode.
9) Master-slave control, multi-units for synchronous control.

2 Product Installation

2.1 Power Connection Method

Please connect power as following ：

L（live wire）=brown wire   E（earth wire）=yellow/green double color wire   N（null line）=blue wire
When connecting power, ensure that the voltage and frequency of power supply match the power requirement of the product.

This equipment belong to class 1 protection equipment, therefore, the yellow-green double colors wire must be earthed correctly by qualified personnel. Before installation, ensure that the voltage and frequency of power supply match the power requirements of product. In power supply and voltage fluctuation large areas, we suggest you to use 110V or 230V or use voltage regulator to supply power. After electrical connection, this product will have a few seconds self-check action, self-check finished can be used.

Input / output power cable should be 2.5 square millimeter copper core.
220V: 15 units may be connected in series.
110V: 7 units may be connected in series.

Important: It is essential that Yellow/green double color wire is correctly earthed and that electrical installation conforms to all relevant standards.

2.2 DMX Connection Method

DMX Addr.1   DMX Addr.9   DMX Addr.17

DMX-512 Contorller
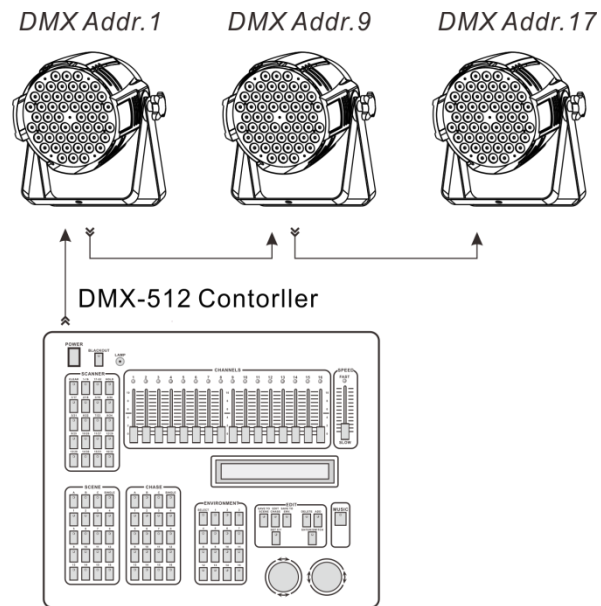
- If the lighting working on DMX mode it needs be connected to the DMX controller
- For example: if using DMX 8 channels mode, the first DMX address value must be 1st, next device should be plugs 8 (e.g., 1,9,17,25...).
- Every DMX address can be reused as needed.
- DMX address can be any data between 001 and 512.

Note: 1. As this fixture's DMX signal cable connection is Parallel connection, please don't more than 32 units.

2. If the signal cable is over 300m between the DMX512 controller And fixture or between two fixtures, then a DMX signal amplifier is needed.
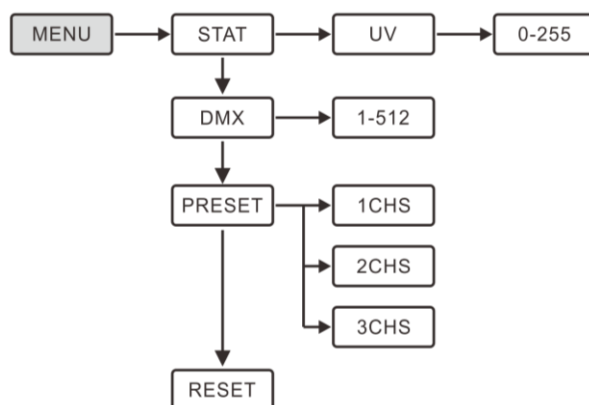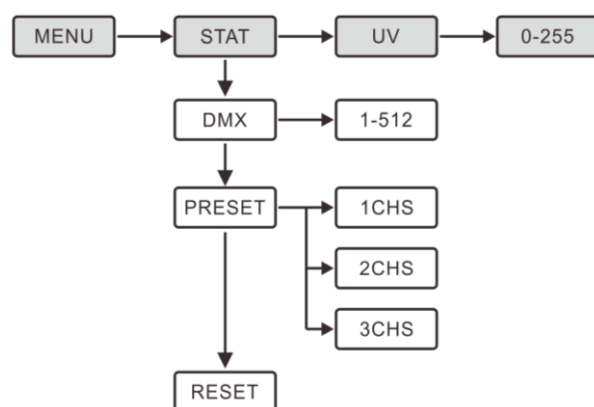
3 Operation Method

3.1 panel functions introduction

❖ MENU：Menu button/return button, enter the menu selection interface or previous menu.

❖ ENTER：Confirmation button, used to confirm the selected function.

❖ UP/DOWN：Upward/downward select function or Parameter increment / decrement.

3.2 Menu Overview

3.3 Static Color Setting (STATIC)

- Find【STATIC】menu and press【ENTER】 to enter color static setting.
- Press【ENTER】button to select【UV】.
- Press【UP/DOWN】button to adjust parameters.
- Press【MENU】button to return to the menu, the selected parameters will be automatically saved.
- After setting lighting fixture's static color, restart the lighting fixture's power supply. The setting was preserved. Exit menu, static color setting will be removed.

Note: When entered this submenu, the light fixture will automatically set to the data status sent by the master, other light fixtures should be set as the slave. Then, any other master lighting fixtures must be disconnected, as well as the DMX signal cables. Otherwise it will cause disordering.

3.4 DMX Address setting (DMX)
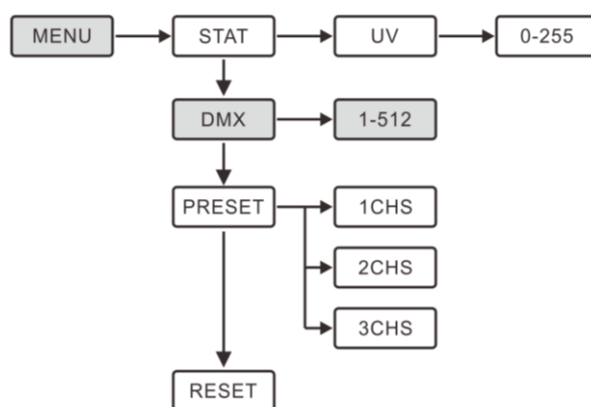
- Find【DMX】menu and press【ENTER】to enter address.
- Press【UP/DOWN】button to select DMX address value.
- Press 【ENTER】 to confirm or【MENU】to exit, the selected address value will be saved.

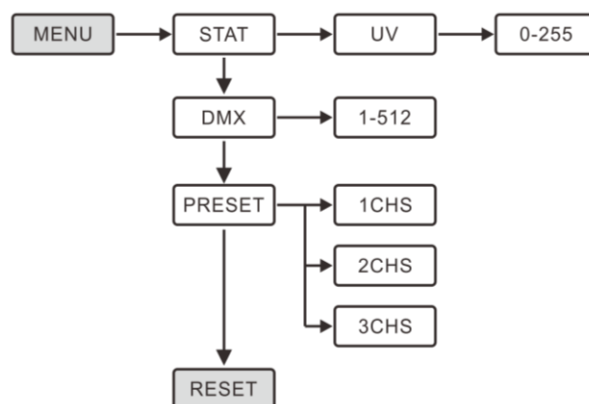## 3.5 DMX Channel Mode setting (PERS)
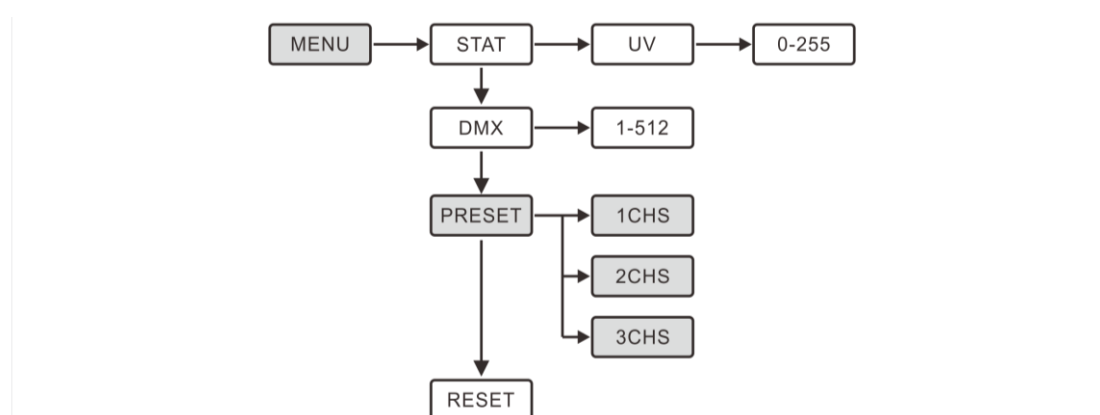
- Find【PERS】menu and press【ENTER】to enter DMX channel mode setting.
- Press【UP/DOWN】button to select【1CH, 2CH……】3 kinds DMX channel modes.
- Press【ENTER】to confirm or【MENU】to exit. The setting will be automatically saved.

3.6 Function Settings (SET)

Find【RESET】menu and press【ENTER】to restore the factory settings.

Restore factory settings parameters:

1. DMX = 001	2. PERS = 1CH

3.7 Temperature control protection State

- When the temperature of the LED bead plate more than 65℃, the light fixture begin slowly to reduce the working current, to protect the LED lamp bead is not damaged by high temperature heat aging.
- When the temperature of the LED bead plate lower than 65℃, the light fixture begin slowly to rise working current, until restore to the normal working current.

4 Control Channel

4.1----1CH Mode:

Channel	DMX Data	Control function	Detail description
1	0 ⟺ 255	UV	Linear dimming from 0~100%

4.2----2CHs Mode:

Channel	DMX Data	Control function	Detail description
1	0 ⟺ 255	UV	Linear dimming from 0~100%
2	0 ⟺ 255	16 bit dimming	Linear dimming from 0~100%

4.3----3CHs Mode:

Channel	DMX Data	Control function	Detail description
1	0 ⟺ 255	UV	Linear dimming from 0~100%
2	0 ⟺ 015	NO FUNCTION	STROBE
	016 ⟺ 215	Regular strobe	
	216 ⟺ 255	Random strobe	
3	0 ⟺ 09	Linear dimming speed (DIM=OFF)	Dimmer speed adjustment
	10 ⟺ 34	Non-linear dimming speed1 (DIM=1)	Dimmer speed adjustment
	35 ⟺ 59	Non-linear dimming speed2 (DIM=2)	Dimmer speed adjustment
	60 ⟺ 84	Non-linear dimming speed3 (DIM=3)	Dimmer speed adjustment
	85 ⟺ 109	Non-linear dimming speed4 (DIM=4)	Dimmer speed adjustment
	110 ⟺ 134	Non-linear dimming speed2 (DIM=2)	Dimmer speed adjustment
	135 ⟺ 159	Non-linear dimming speed2 (DIM=2)	Dimmer speed adjustment
	160 ⟺ 184	Non-linear dimming speed2 (DIM=2)	Dimmer speed adjustment
	185 ⟺ 209	Non-linear dimming speed2 (DIM=2)	Dimmer speed adjustment
	210 ⟺ 255	Non-linear dimming speed2 (DIM=2)	Dimmer speed adjustment

5 Maintenance

5.1 Product Maintenance

To prolong the life of the product, it is very important to do maintenance work. The environment is hash outdoors, or if the product is idle for a long time, damp, smoke or particularly dirty surroundings can cause greater accumulation of dirt on its LED lens cover, fan vents and housing. So it should be cleaned to maintain an optimum light output and at the same time to prevent it from corrupted by acid gas.

Cleaning frequency depends on the environment in which the fixture operates. Soft cloth and typical glass cleaning products should be used for cleaning. It is recommended to clean product at least one every 20 days.

Friendly notice: Please do not use any organic solvent alcohol to clean housing of the apparatus, lest cause damage.

5.2 Problem fix

Problems	Action
The product doesn't switch on	Power connection is not correct--Re-connect it.
	Power supply is damaged or abnormal. Call a qualified personnel to fix it.
	Control section is damaged. Call a qualified personnel to fix it.
	Connection of internal circuitry is not correct. Call a qualified personnel to fix it.
The product can turn on, but LEDs do not emit light and are out of control	DMX address is wrongly setting up. Resetting it according to instruction book.
	DMX Signal wrongly connected. Connect it correctly according to instruction book.
	Control section is damaged. Call a qualified personnel to fix it.
The beam appears Dim	The product is too hot. Take ventilation measures to make it cool.

Remark: This product warranty for one year. We provide pay-needed maintenance service after the warranty. But because of natural and man-made disasters or improper operation caused damage not under warranty range!

SUPER-CAN INDUSTRY GROWING GROUP CO.,LTD.
MADE IN CHINA