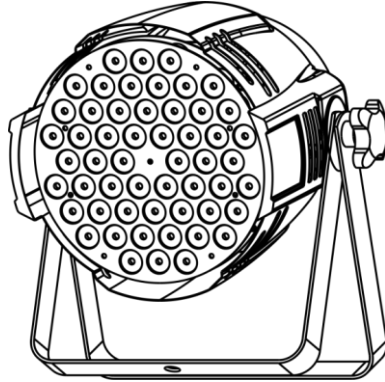


User Manual



LED PAR 54*3W RGBW

Model: LD401-5403 / LD611-54043 / LD611-54041


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.



2018.03.22

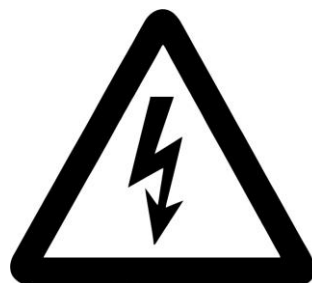
1 Understanding of Product

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 .
- 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 Technical Parameters

Power supply

- Power Rated: AC100~240V 50~60Hz \pm 10%
- Max Power: 180W

LED

- LED Chips: 54pcs x 3W 14xRed / 14xGreen / 14xBlue / 12xWhite
- Drive Current: 650-700mA
- Refresh Frequency: 4KHz
- Colors: 16.7 million colors
- Life Time: > 20K hours

Control

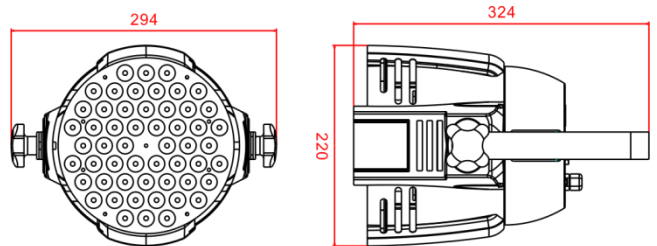
- Control Signal: DMX-512
- Channel Mode: 5 kinds channel modes. 4Chs / 5Chs / 6Chs / 7Chs / 10Chs Change by menu.
- Control Mode: DMX-512, Auto-Run, Master-Slave mode, Static mode.
- Auto Effect: 5 kinds of Auto-Run effects.

Optical System

- Dimming mode: Normal Dimming 0-100% or Fading Dimming Mode.
- Flashing rate: 1~20Hz sync or async.
- Beam angle: 15~60° (fix by lens)

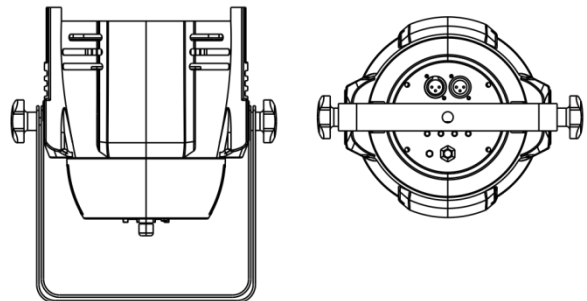
Physical

- Dimensions: 294 x 220 x 324mm
- Net Weight: 2.5kgs
- Housing color: Black
- Connection: DMX cable IN/OUT, Power cable IN/OUT



Security

- Cooling System: Fan Cooling
- Operating Environment: Indoor
- Operating Temperature: -20°C~40°C



1.3 Product Features

Using the latest LED driver technology from SUPER-CAN, 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, night club, KTV or various performance occasion.

Features:

- 1) Static color Settings (STATIC).
- 2) 4K refresh frequency for video camera.
- 3) Fading dimming technology..
- 4) Overheating protection function
- 5) 5 kinds of DMX channel mode.
- 6) Master-slave control, multi-units for synchronous control.
- 7) Sync and async strobe function.

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 wire) =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.

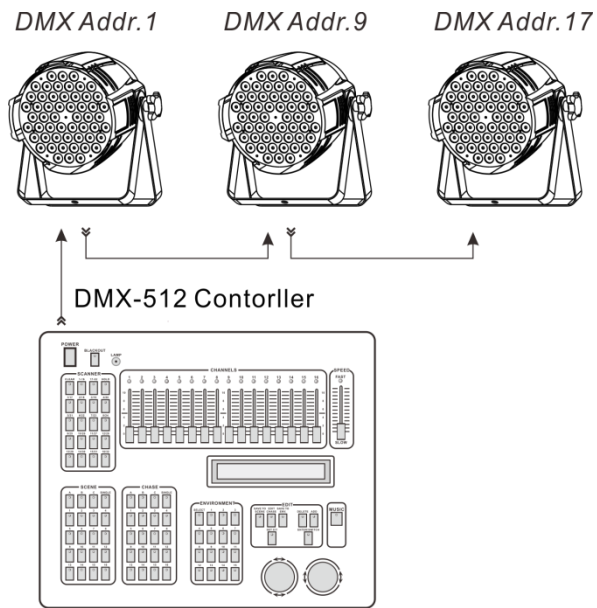
Input / output power cable should be 2.5 square millimeter copper core.

220V: Each series should be <16 units.

110V: Each series should be <8 units.

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



- If the lighting working on DMX mode it needs be connected to the DMX controller
- For example: if the lighting setup to 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 DMX cable connection should parallel connection, please don't connect more than 32 units in one series.
2. If the signal cable between DMX controller and device over 300 meter, DMX amplifier should be installed.

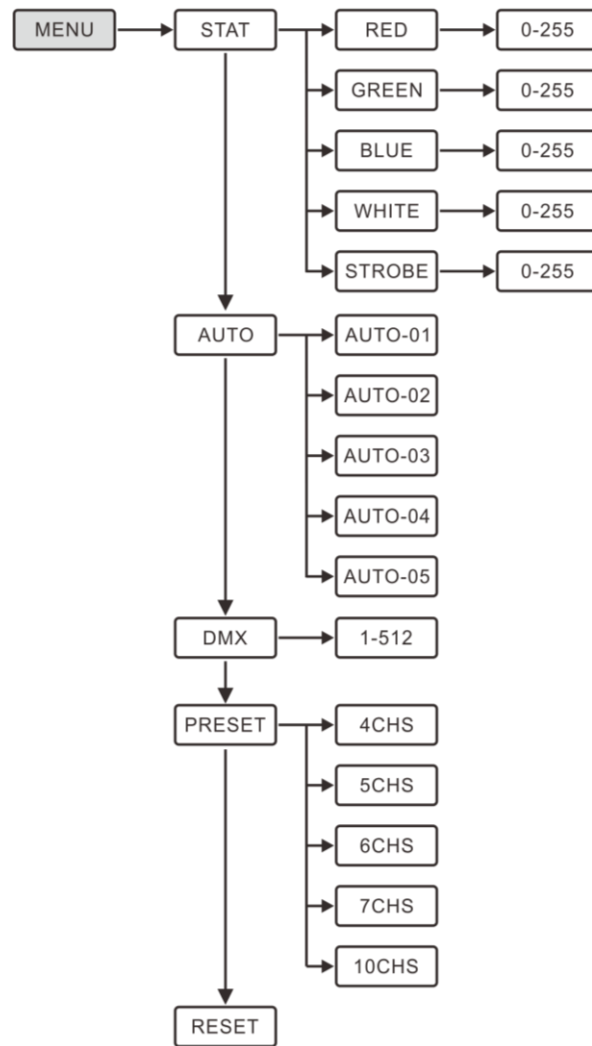
3 Operation Method

3.1 panel functions introduction

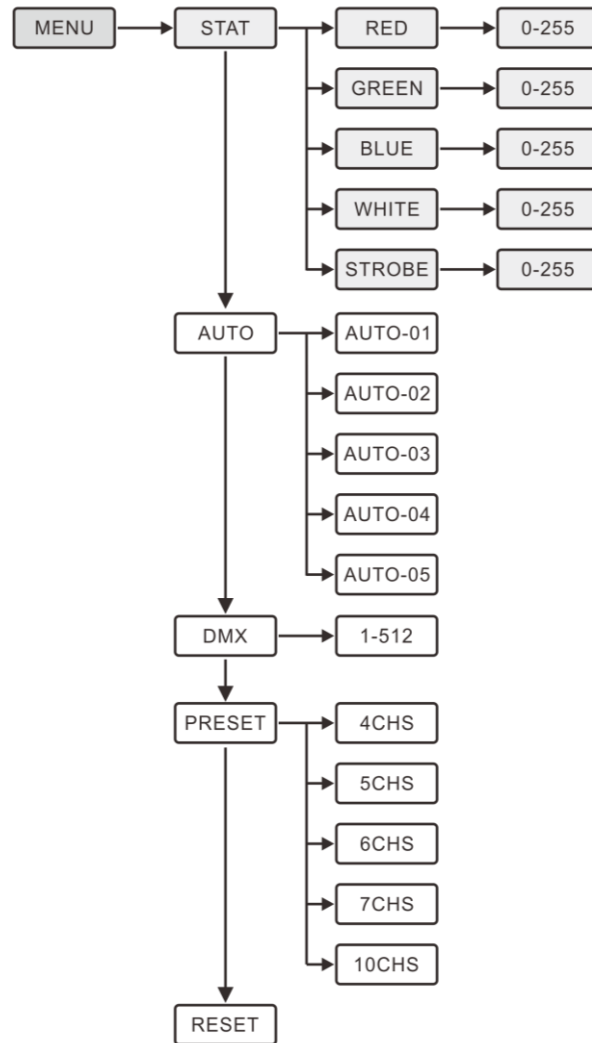


- ❖ MENU: Menu and Return button, For menu selection.
- ❖ ENTER: Confirm the menu selected function and save function setting.
- ❖ UP/DOWN: Upward/downward select function or parameter increment selection.

3. 2 Menu Overview



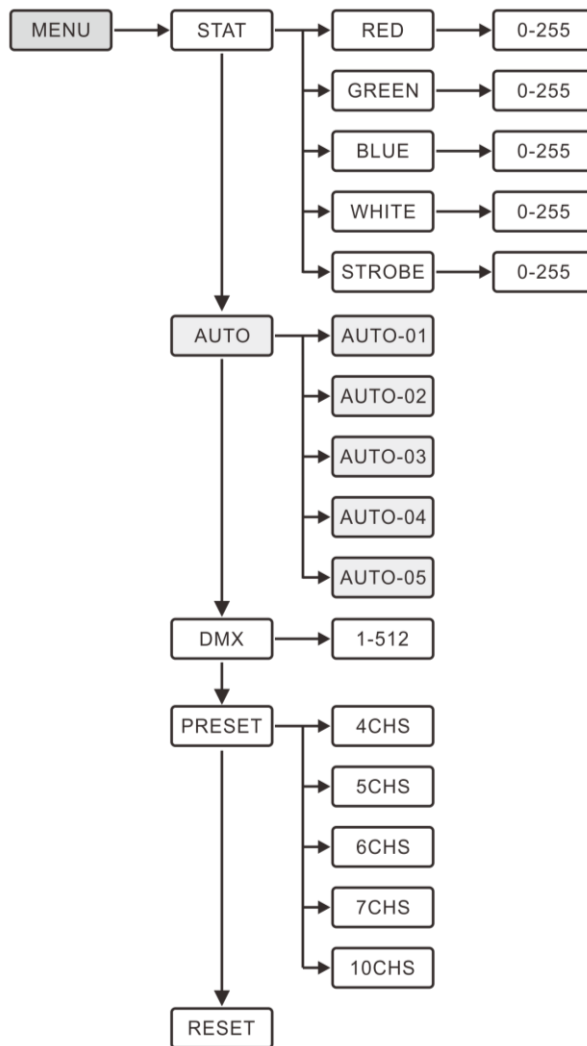
3.3 Static Color Setting (STATIC)



- Find "STATIC "menu and press "ENTER " to enter color static setting.
- Press "UP/DOWN "button to select "RED ", "GREEN ", "BLUE ", "WHITE ", "STROBE ", press "Enter" to confirm.
- Press "UP/DOWN "button to adjust brightness value.
- Press "MENU "button to return, the selected brightness value will be 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.

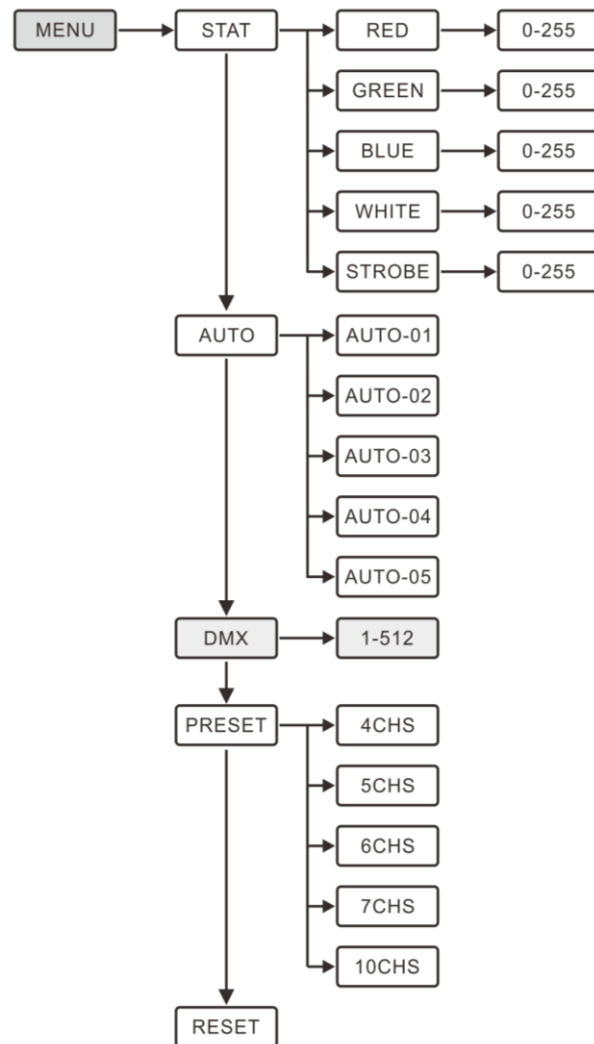
3.4 Autorun Setting (AUTO)



- Find "AUTO" menu and press "ENTER "to enter automatic programming setting.
- Press "UP/DOWN "button to select "AT.01~05 "5 kinds of auto-run function. Press "ENTER "to confirm your setting.
- After setting the lighting will run on auto run mode. Restart the lighting, the setting was preserved. Exit menu, auto run mode will be removed.

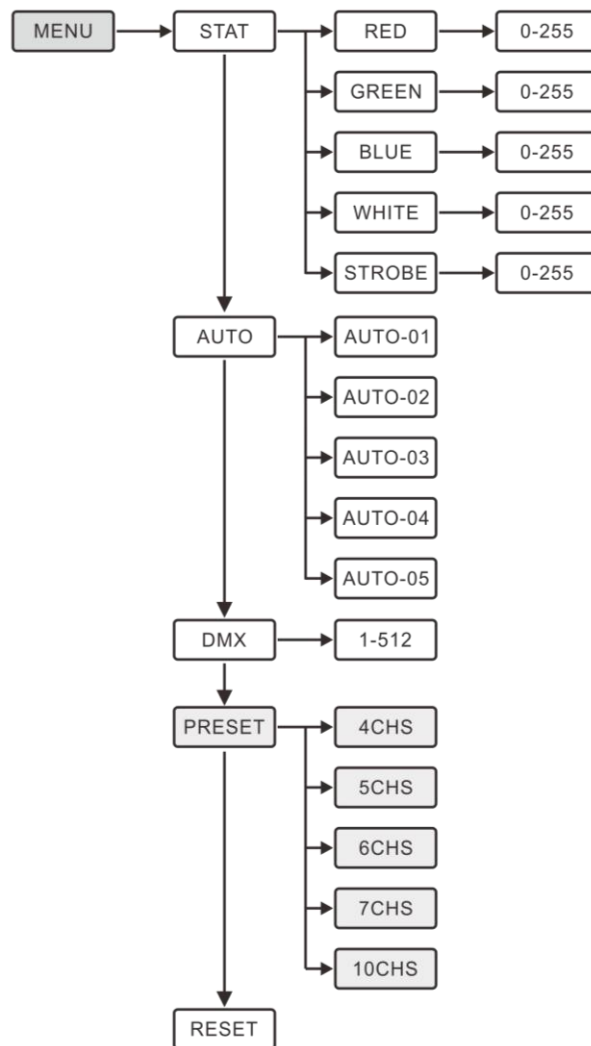
Note: When entered this submenu, the light fixture will automatically set to the data status sent by the master, other light fixtures should be set as the slave. Then, any other master lighting fixtures must be disconnected, as well as the DMX signal cables. Otherwise it will cause disordering.

3.5 DMX-512 Address setting



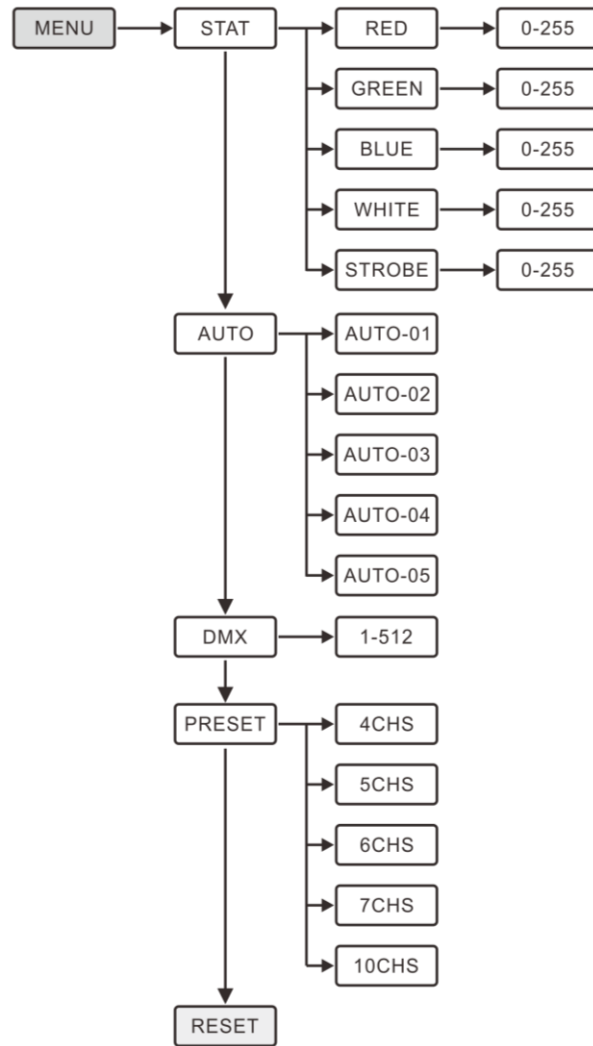
- Find "DMX "menu and press "ENTER "to enter the address setting.
- Press "UP/DOWN "button to change the DMX address value.
- Press "ENTER " to confirm or "MENU " to exit, the selected address value will be saved. The lighting will run on DMX mode.

3.6 DMX Channel Mode selection (PERS)



- Find "PERS "menu and press "ENTER "to enter DMX channel mode setting.
- Press "UP/DOWN "button to choose different DMX channel modes.
- Press "ENTER" to confirm or "MENU " to exit. The setting will be automatically saved.

3.7 Reset All Settings



- Find "RESET "menu and press "ENTER "to restore the factory settings.

Restore factory settings parameters:

1. DMX = 001	2. PERS = 4CH
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3.8 Temperature control protection State

- When the temperature of the LED over 60-65°C, the light fixture will auto slow down the driver current to protect the LED chips.
- When the protection function is activity, the second dot on the LED screen will ON.
- If the temperature sensor is not online or broken, the 3rd dot on the LED screen will ON, the lighting only work on 50% mode.

4 Control Channel

4.1----4CHs Mode:

Channel	DMX Value	Control function	Detail description
1	0-255	Red Dimmer	Dimming from 0~100%
2	0-255	Green Dimmer	Dimming from 0~100%
3	0-255	Blue Dimmer	Dimming from 0~100%
4	0-255	White Dimmer	Dimming from 0~100%

4.2----5CHs Mode:

Channel	DMX Value	Control function	Detail description
1	0-255	Red Dimmer	Dimming from 0~100%
2	0-255	Green Dimmer	Dimming from 0~100%
3	0-255	Blue Dimmer	Dimming from 0~100%
4	0-255	White Dimmer	Dimming from 0~100%
5	0-09	Normal Dimming Mode	
	10-50	Linear Dimming speed (DIM=1)	
	51-100	Fading Dimming Mode (DIM=2)	
	101-150	Fading Dimming Mode (DIM=3)	
	151-200	Fading Dimming Mode (DIM=4)	
	201-255	Fading Dimming Mode (DIM=5)	

4.3----6CHs Mode:

Channel	DMX Value	Control function	Detail description
1	0-255	Main Dimmer	Dimming from 0~100%
2	0-255	Red Dimmer	Dimming from 0~100%
3	0-255	Green Dimmer	Dimming from 0~100%
4	0-255	Blue Dimmer	Dimming from 0~100%
5	0-255	White Dimmer	Dimming from 0~100%
5	0-09	Normal Dimming Mode	
	10-50	Linear Dimming speed (DIM=1)	
	51-100	Fading Dimming Mode (DIM=2)	
	101-150	Fading Dimming Mode (DIM=3)	
	151-200	Fading Dimming Mode (DIM=4)	
	201-255	Fading Dimming Mode (DIM=5)	

4.4----7CHs Mode:

Channel	DMX Value	Control function	Detail description
1	0-255	Main Dimmer	Dimming from 0~100%
2	0-255	Red Dimmer	Dimming from 0~100%
3	0-255	Green Dimmer	Dimming from 0~100%
4	0-255	Blue Dimmer	Dimming from 0~100%
5	0-255	White Dimmer	Dimming from 0~100%
6	0-15	NO Function	STROBE
	16-215	sync strobe (slow to fast)	
	216-255	async strobe	
7	0-09	Normal Dimming Mode	
	10-50	Linear Dimming speed (DIM=1)	
	51-100	Fading Dimming Mode (DIM=2)	
	101-150	Fading Dimming Mode (DIM=3)	
	151-200	Fading Dimming Mode (DIM=4)	
	201-255	Fading Dimming Mode (DIM=5)	

4.5----10CHs mode:

CHs	DMX Value	Functions	Descriptions
1	0-255	Main Dimmer	Dimming from 0~100%
2	0-255	Red Dimmer	Dimming from 0~100%
3	0-255	Green Dimmer	Dimming from 0~100%
4	0-255	Blue Dimmer	Dimming from 0~100%
5	0-255	White Dimmer	Dimming from 0~100%
6	0-9	NO FUNCTION	COLOR MACRO
	10-29	RED 100%/GREEN UP/BLUE 0%	
	30-49	RED DOWN/GREEN 100%/BLUE 0%	
	50-69	RED 0%/GREEN 100%/BLUE UP	
	70-89	RED 0%/GREEN DOWN/BLUE 100%	
	90-109	RED UP/GREEN 0%/BLUE 100%	
	110-129	RED 100%/GREEN 0%/BLUE DOWN	
	130-149	RED 100%/GREEN UP /BLUE UP	
	150-169	Red DOWN /Green DOWN /Blue 100%	
170-255	Red 100%/Green 100%/Blue 100%/White 100%		
7	0-015	No function	STROBE
	16-215	sync strobe(Slow to fast)	
	216-255	async strobe	
8	0-10	NO FUNCTION	
	11-50	AUTO1	Auto-program effect running
	51-100	AUTO2	Auto-program effect running
	101-150	AUTO3	Auto-program effect running
	151-200	AUTO4	Auto-program effect running
	201-255	AUTO5	Auto-program effect running
9	0-255	Auto-Run Speed	
10	0-09	Normal Dimming Mode	
	10-50	Linear Dimming speed (DIM=1)	
	51-100	Fading Dimming Mode (DIM=2)	
	101-150	Fading Dimming Mode (DIM=3)	
	151-200	Fading Dimming Mode (DIM=4)	
	201-255	Fading Dimming Mode (DIM=5)	

5 Maintenance

5.1 Product Maintenance

To prolong the life of the product, it is very important to do maintenance work. The environment is harsh 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 month.

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 power 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.
	DMX Signal wrongly connected. Connect it correctly according to instruction.
	Control section is damaged. Call a qualified personnel to fix it.
Brightness going down	The product is too hot. Take ventilation measures to make it cooling down.

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**