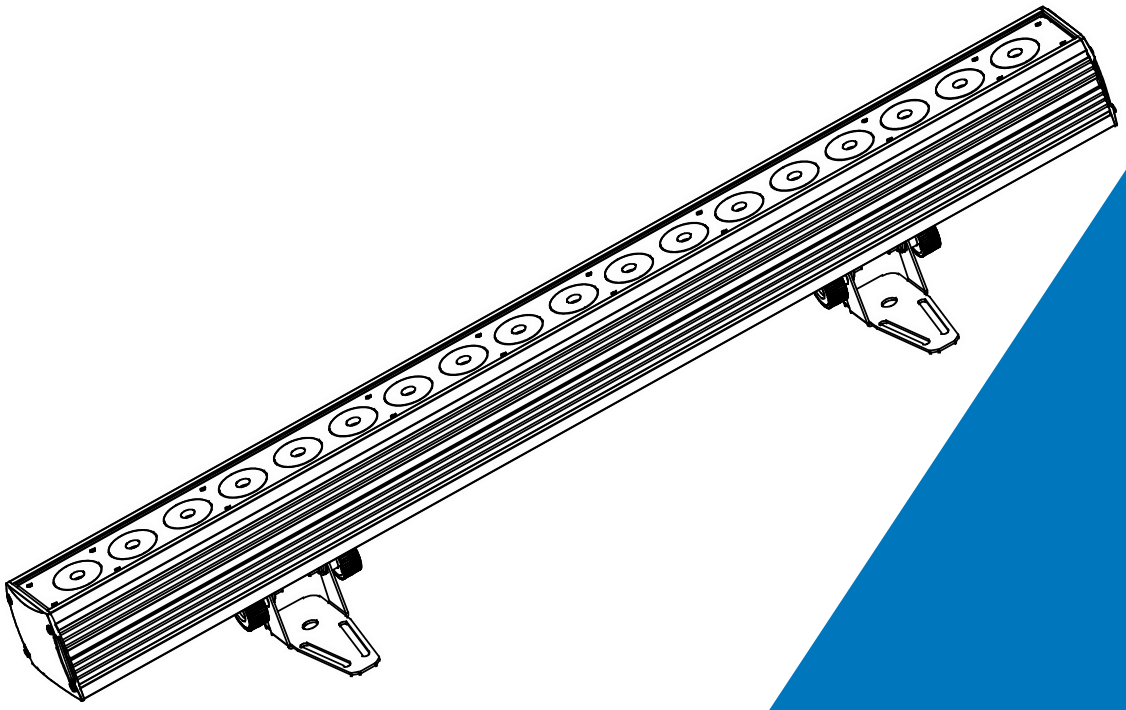
FARANDOLE

AM-BAR



User Manual

Please read the instruction carefully before use

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1. Safety Instructions

Please read the instruction carefully which includes important information about the installation, usage and maintenance.

WARNING

Please keep this User Guide for future consultation. If you sell the unit to another user, be sure that they also receive this instruction manual.

Important:

Damages caused by the disregard of this user manual are not subject to warranty. The dealer will not accept liability for any resulting defects or problems.

- Unpack and check carefully that there is no transportation damage before using the unit.
- The unit is for indoor use only. Use only in a dry location.
- DO install and operate by qualified operator.
- DO NOT allow children to operate the fixture.
- Use safety chain when fixing the unit. Handle the unit by carrying its base instead of head only.
- The unit must be installed in a location with adequate ventilation, at least 50cm from adjacent surfaces.
- Be sure that no ventilation slots are blocked, otherwise the unit will be overheated.
- Before operating, ensure that the voltage and frequency of power supply match the power requirements of the unit.
- It's important to ground the yellow/green conductor to earth in order to avoid electric shock.
- Maximum ambient temperature TA: 40℃， maximum ambient temperature TA: 0℃.
- DO NOT connect the device to any dimmer pack.
- During initial start-up some smoke or smell may arise. This is a normal process and does not necessarily mean that the device is defective, and it will decrease gradually within 15 minutes.
- Make sure there are no flammable materials close to the unit while operating to avoid fire hazard.
- Examine the power wires carefully; replace them immediately if there is any damage.
- Unit's surface temperature may reach up to 56℃. DO NOT touch the housing bare-handed during its operation, and allow about 15 minutes for cooling the unit down before replacing bulb or maintenance as it could be very hot.
- Avoid any inflammable liquids, water or metal objects entering the unit. Once it happens, cut off

the mains power immediately.

- DO NOT operate in dirty or dusty environment, do clean fixtures regularly.
- DO NOT touch any wire during operation as there might be a hazard of electric shock.
- Avoid power wires together twist other cables.
- The minimum distance between light output and the illuminated surface must be more than 12 meters.
- Disconnect mains power before fuse replacement or servicing.
- Replace fuse only with the same type.
- In the event of serious operating problem, stop using the unit immediately.
- Never turn on and off the unit time after time.
- The housing, the lenses, or the ultraviolet filter must be replaced if they are visibly damaged.
- DO NOT open the unit as there are no user serviceable parts inside.
- Never try to repair the unit by yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center if needed.
- Disconnect the mains power if the fixture is has not been used for a long time.
- DO use the original packing materials before transporting it again.

Cautions:

- To prevent or reduce the risk of electrical shock or fire, do not expose the unit to rain or moisture.
- DO replace the bulb once it is damaged, deformed or life-expired.
- DO NOT look directly at the light while the bulb is on.
- Never touch bulb with bare fingers, as it is very hot after using.
- DO NOT start on the unit when housing is damaged.

2. Technical Specifications

Power supply

AC 100~240V, 50/60Hz

Power Consumption

140W

Light Source

18x8W RGBW LED

Beam Angle

16°

Protocols

DMX Channel: 6⁄9 channels

Control Mode: DMX512, RDM

Firmware Upgrade: Update via DMX link

Construction

Display: LED display

Data In/Out: 3-pin XLR

Power In/Out: Power Connector in/out

Protection Rating: IP20

Features

Efficient LED lens, uniform color mixing, which makes the light effect better;

0~100% smooth dimming;

Adjustable electronic strobe effect;

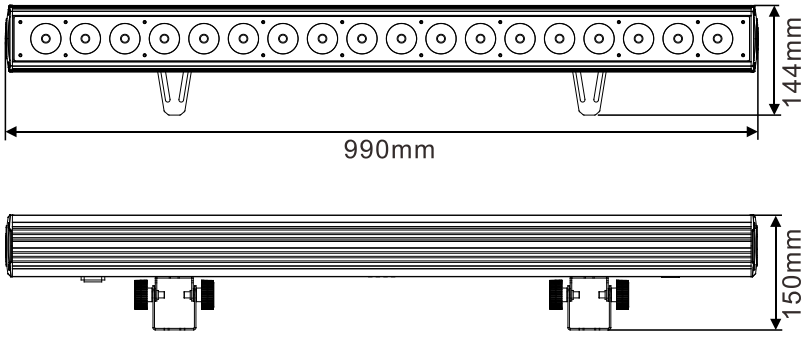
Suitable for fixed installation or mobile performance;

The fixture can be adjusted to 180° backward and forward by double mounting brackets.

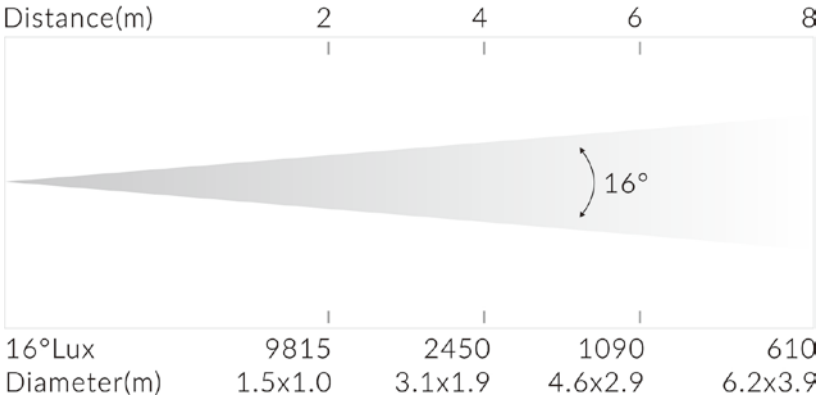
Dimension/Weight

990 x 144 x 150mm, 4.9kgs

39" x 5.7" x 5.9"in, 10.8lbs

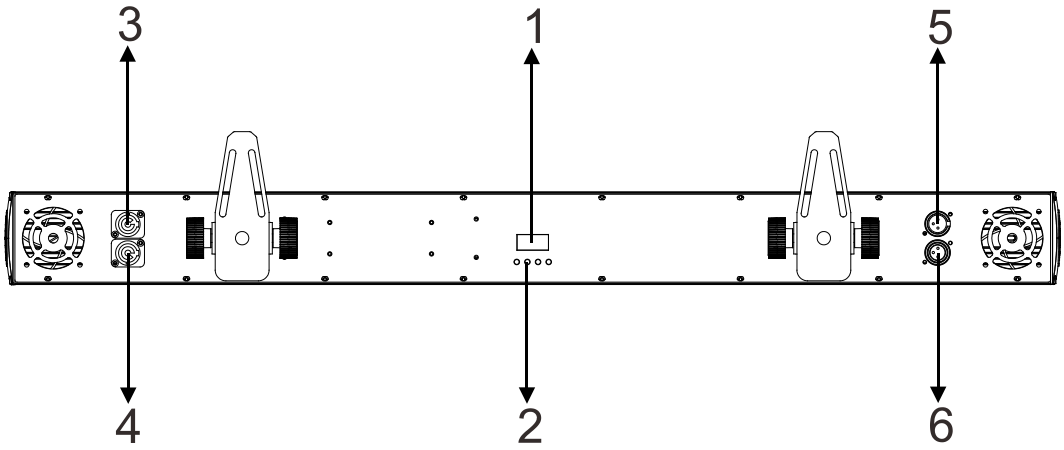


Photometrics



3. Description

3.1 Control Panel



1. Display: To show the various menus and the selected function

2. Button:

MENU	To enter into move backward or leave the menu
DOWN	To go to move down in the menu
UP	To go backward to move up in the menu
ENTER	To perform the desired functions

3. Power In: Used to connect to supply power

4. Power Out: Used to connect to the next fixture

5. DMX In: For DMX 512 operation, use 3-pin XLR plug cable to link the units together

6. DMX Out: For DMX 512 operation, use 3-pin XLR plug cable to link the units together

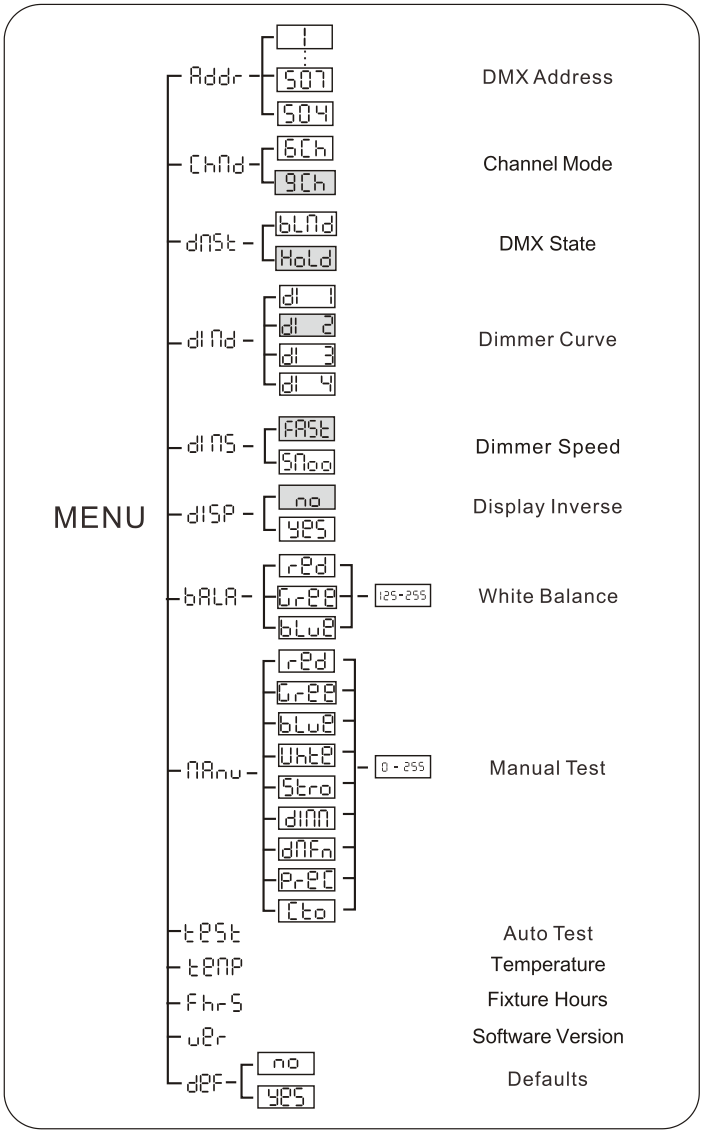
4. How To Set The Unit

4.1 Main Function

Turn on the unit, press the **MENU** button into menu mode, and press the **UP**/**DOWN** button until the required function is shown on the monitor. Select the function by the **ENTER** button. Use the **UP**/**DOWN** button to choose the submenu, press the **ENTER** button to store and automatically return to the last menu. Press the **MENU** button or let the unit idle one minute to exit menu mode.

In the event of disconnecting with mains power, press the **UP** button for one minute to enter into menu mode. Press MENU button or let the unit idle one minute to exit.

The main functions are shown below（the grayed boxes are preset settings）:



Addr DMX Address

Select the Addr, press the **ENTER** button and the display will blink. Use the **DOWN** and **UP** button to change the DMX 512 address(001-507/504). Once the address has been selected, press the **ENTER** button to setup or exit menu mode without any change after 1 minute automatically. Back to the previous functions without any change, press the **MENU** button.

ChNd Channel Mode

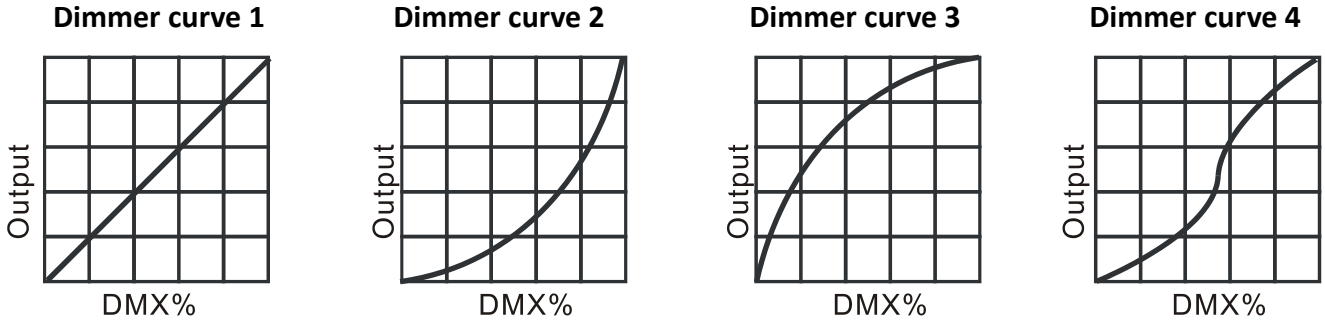
Select the ChNd, press the **ENTER** button. Use the **DOWN** and **UP** button to select the channel mode 6Ch(6 Channel Mode) or 9Ch(9 Channel Mode). Once selected, press the **ENTER** button to setup or exit menu mode without any change after 1 minute automatically. To go back to the functions without any change, press the **MENU** button.

DMX State

Select the dMSt, press the **ENTER** button. Use the **DOWN** and **UP** button to select bLnd(Blackout) or HoLd(Hold). Once selected, press the **ENTER** button to setup or exit menu mode without any change after 1 minute. Back to the functions without any change, press the **MENU** button.

Dimmer Curve

Select the dIMd, press the **ENTER** button. Use the **DOWN** and **UP** button to select dI 1(Dimmer Curve 1) … dI 4(Dimmer Curve 4). Once selected, press the **ENTER** button to setup or exit menu mode without any change after 1 minutes. Back to the functions without any change, press the **MENU** button.



Mode 1(Optically Linear): The increase in light intensity appears to be linear as DMX value is increased.

Mode 2(Square Law): Light intensity control is finer at low levels and coarser at high levels.

Mode 3(Inverse Square Law): Light intensity control is coarser at low levels and finger at high levels.

Mode 4(S-curve): Light intensity control is finger at low levels and high levels and coarser at medium levels.

Dimmer Speed

Select the dIMS, press the **ENTER** button. Use the **DOWN** and **UP** button to select FASt(Fast) or SMoo(Smooth). Once selected, press the **ENTER** button to setup or exit menu mode without any change after 1 minute. Back to the functions without any change, press the **MENU** button.

Display Inverse

Select the dI SP, press the **ENTER** button. Use the **DOWN** and **UP** button to select no or yES. Once selected, press the **ENTER** button to setup or exit menu mode without any change after 1 minute automatically. Back to the functions without any change, press the **MENU** button.

White Balance

Select the bALA, press the **ENTER** button. Use the **DOWN** and **UP** button to select rEd, GrEE or bLuE. Once selected, press the **ENTER** button to setup, use the **DOWN** and **UP** button to adjust the value from 125 to 255, press the **ENTER** button to setup or exit menu mode without any change after 1 minute automatically. Back to the functions without any change, press the **MENU** button.

Manual Test

Select the MAnu, press the **ENTER** button. Use the **DOWN** and **UP** button to select rEd, GrEE, bLuE, WhtE, Stro, dIMM, dMFn, PrEC or CtO. Once selected, press the **ENTER** button to setup, use the **DOWN** and **UP** button to adjust the value from 0 to 255, press the **ENTER** button to setup or exit menu mode without any change after 1 minute automatically. Back to the functions without any change, press the **MENU** button.

Auto Test

Select the tESt, press the **ENTER** button and the unit will run self-test by built-in program. To go back to the functions, press the **MENU** button.

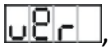
Temperature

Select the tEMP, press the **ENTER** button and the display will show the temperature of each unit. To go back to the functions, press the **MENU** button.

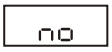
Fixture Hours

Select the FhrS, press the **ENTER** button and the display will show the working hours of the unit. To go back to the functions, press the **MENU** button.

Software Version

Select the  , press the **ENTER** button and the display will show the software version of the unit. To go back to the functions, press the **MENU** button.

Defaults

Select the , press the **ENTER** button. Use the **DOWN** and **UP** button to select  or . Once selected, press the **ENTER** button to setup or exit menu mode without any change after 1 minute automatically. Back to the functions without any change, press the **MENU** button.

4.2 Error Information

Temperature Sense Error

It appears when temperature check board is damaged.

Memory Initial Fail

It appears when the memory IC is damaged.

CPU-B Error, CPU-C Error, CPU-D Error

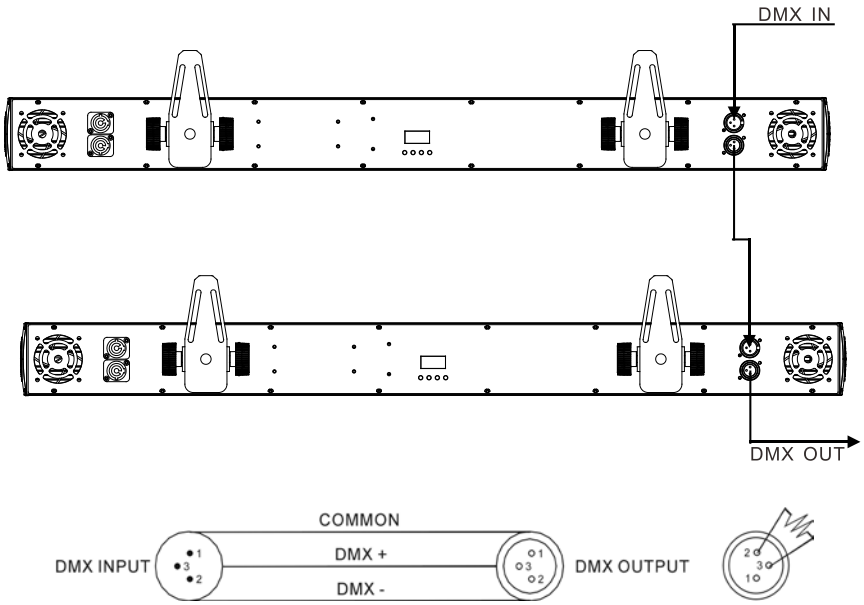
They appear when board P.C or some wires are damaged.

Pan Reset Error, Pan Encode Error, Tilt Reset Error, Tilt Encode Error, Shutter Reset Fail, Dimmer Reset Fail, Color Reset Fail, Cyan Reset Fail, Magenta Reset Fail, Yellow Reset Fail, Gobo1 Reset Fail, R-Gobo1 Reset Fail, Gobo2 Reset Fail, Iris Reset Fail, Effect Reset Fail, R-Effect Reset Fail, Frost Reset Fail, Flat Reset Fail, Focus Reset Fail, Zoom Reset Fail

They may appear when turning on or resetting the unit, for some parts such as board P.C are damaged. Please contact the qualified maintenance.

5. Control By Universal DMX Controller

5.1 Connection



ATTENTION

Termination reduces signal errors and to avoid signal transmission problems and interference. It is always advisable to connect a DMX terminal (Resistance 120 ohm 1/4W between pin2 (DMX-) and pin3 (DMX+) of the last fixture).

1. At last unit, the DMX cable has to be terminated with a terminator. Solder a 120-ohm 1⁄4W resistor between pin 2(DMX-) and pin 3(DMX+) into a 3-pin XLR-plug and plug it in the DMX-output of the last unit.
2. Connect the unit together in a “daisy chain” by XLR plug cable from the output of the unit to the input of the next unit. The cable cannot be branched or split to a “Y” cable. DMX 512 is a very high-speed signal. Inadequate or damaged cables, soldered joints or corroded connectors can easily distort the signal and shut down the system.
3. The DMX output and input connectors are pass-through to maintain the DMX circuit, when one of the units’ power is disconnected.
4. Each lighting unit needs to have a DMX address to receive the data by the controller. The address number is between 0-511 (usually 0 & 1 are equal to 1).
5. The end of the DMX 512 system should be terminated to reduce signal errors.
6. 3 pin XLR connectors are more popular than 5 pins XLR.

   3 pin XLR: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+)

   5 pin XLR: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+), Pin4, Pin5 not used.

5.2 Address Setting

If you use a universal DMX controller to control the units, you have to set DMX address from 1 to 512 so that the units can receive DMX signal.

Press the MENU button to enter menu mode, select *DMX Functions*, press the ENTER button to confirm, use the UP/DOWN button to select *DMX Address*, press the ENTER button to confirm, the present address will blinking the display, use the UP/DOWN button to adjust the address from 001 to 512, press the ENTER button to store. Press the MENU button back to the last menu or idling let the unit idle one minute to exit menu mode.

Please refer to the following diagram to address your DMX512 channel for the first 4 units.

Channel mode	Unit 1 Address	Unit 2 Address	Unit 3 Address	Unit 4 Address
6 channels	1	7	13	19
9 channels	1	10	19	28

5.3 DMX 512 Configuration

Please refer to below configurations to control the fixtures

Attentions:

1. The unit will maintain the last condition until reset if you cut-off the DMX signal.
2. For the channel Function, keep the value for about 5 seconds, then the corresponding function will take into effect.

6 Channels (Mode 1):

CHANNEL	VALUE	FUNCTION
1	0-255	**Red**
2	0-255	**Green**
3	0-255	**Blue**
4	0-255	**White**
5		**Strobe**
	000-007	Close
	008-015	Open
	016-131	Strobe Slow->Fast
	132-139	Open
	140-181	Fast Close Slow Open

	182-189	Open
	190-231	Fast Open Slow Close
	232-239	Open
	240-247	Random Strobe
	248-255	Open
6	000-255	**Dimmer**

9 Channels (Mode 2):

CHANNEL	VALUE	FUNCTION
1	0-255	**Red**
2	0-255	**Green**
3	0-255	**Blue**
4	0-255	**White**
5		**Strobe**
	000-007	Close
	008-015	Open
	016-131	Strobe Slow->Fast
	132-139	Open
	140-181	Fast Close Slow Open
	182-189	Open
	190-231	Fast Open Slow Close
	232-239	Open
	240-247	Random Strobe
	248-255	Open
6	000-255	**Dimmer**
7	000-255	**Dimmer Fine**
8		**Preset Color**
	000-007	Color 1
	008-015	Color 2
	016-023	Color 3
	024-030	Color 4
	031-038	Color 5
	039-046	Color 6
	047-054	Color 7
	055-061	Color 8
	062-069	Color 9
	070-077	Color 10
	078-084	Color 11
	085-092	Color 12
	093-100	Color 13

	101-108	Color 14
	109-115	Color 15
	116-123	Color 16
	124-131	Color 17
	132-139	Color 18
	140-146	Color 19
	147-154	Color 20
	155-162	Color 21
	163-169	Color 22
	170-177	Color 23
	178-185	Color 24
	186-193	Color 25
	194-200	Color 26
	201-208	Color 27
	209-216	Color 28
	217-223	Color 29
	224-231	Color 30
	232-239	Color 31
	240-247	Color 32
	248-255	Color 33
9		**CTO**
	000-019	NO FUNCTION
	020-059	10000K
	060-099	7200K
	100-139	5600K
	140-179	4200K
	180-219	3200K
	220-255	2700K

6. Troubleshooting

Following are a few common problems that may occur during operation. Here are some suggestions for easy troubleshooting:

A. The unit does not work, no light and the fan does not work

1. Check the connect power and main fuse.
2. Measure the mains voltage on the main connector.
3. Check the power on LED to see if it can be light up or not.

B. Not responding to DMX controller

1. DMX LED should be on. If not, check DMX connectors, cables to see if they are linked properly.

2. If the DMX LED is on and no response to the channel, check the address settings and DMX polarity.
3. If you have intermittent DMX signal problems, check the pins on connectors or on PCB of the unit or the previous one.
4. Try to use another DMX controller.
5. Check to see if the DMX cables run near or run alongside to high voltage cables that may cause damage or interference to DMX interface circuit.

C. One of the channels is not working well

1. The stepper motor might be damaged or the cable connected to the PCB is broken.
2. The motor's drive IC on the PCB might be out of condition.

7. Cleaning

The cleaning of internal and external optical lenses and/or mirrors must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates: damp, smoky or particularly dirty surrounding can cause greater accumulation of dirt on the unit's optics.

- Clean with soft cloth and use normal glass to clean liquid.
- Always dry the parts carefully.
- Clean the external optics at least every 20 days. Clean the internal optics at least every 30/60 days.

Declaration of Conformity

We declare that our products (lighting equipments) comply with the following specification and bears CE mark in accordance with the provision of the Electromagnetic Compatibility (EMC) Directive 89/336/EEC.

EN55103-1: 2009+A1:2012; EN55103-2: 2009;
EN61000-3-2: 2014; EN61000-3-3: 2013.

&

Harmonized Standard

EN 60598-1:2015; EN 60598-2-17:1989 + A2:1991;
EN 62471:2008; EN 62493: 2010
Safety of household and similar electrical appliances
Part 1: General requirements

Innovation, Quality, Performance