



# IP-PAR 12



USER MANUAL



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### Statement

The product has well capability and intact packing when leave factory. All of the user should comply with warning item and manual, any misuse cause of the damages are not included in our guarantee, and also can not be responsible for any malfunction & problem owing to ignore the manual.



# 1.Safety Instructions

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

- Unpack and check carefully there is no transportation damage before using the unit.
- 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.
- The unit is for indoor use only. Use only in a dry location.
- The unit must be installed in a location with adequate ventilation, at least 50cm from adjacent surfaces. Be sure that no ventilation slots are covered.

## **Disconnect main power before replacement or servicing.**

- Make sure there are no flammable materials close to the unit while operating as it is fire hazard.
- Use safety cable when fixes this unit. DO NOT handle the unit by taking its head only, but always by taking its base.
- Maximum ambient temperature is  $T_a$ : 40°C. DO NOT operate it where the temperature is higher than this Unit surface temperature may reach up to 85°C. DO NOT touch the housing bare-hand during its operation. Turn off the power and allow about 15 minutes for the unit to cool down before replacing or serving.
- In the event of serious operating problem, stop using the unit immediately. 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. Always use the same type spare parts.



DO NOT touch any wire during operation as high voltage might be causing electric shock.

Warning:

To prevent or reduce the risk of electrical shock or fire, do not expose the unit to rain or moisture.

DO NOT open the unit within five minutes after switching off.

The housing, the lenses, or the ultraviolet filter must be replaced if they are visibly damaged.

**Caution:**

There are no user serviceable parts inside the unit. DO NOT open the housing or attempt any repairs yourself. In the unlikely event your unit may require service, please contact your nearest dealer.

**Installation:**

The unit should be mounted via its screw holes on the bracket. Always ensure that the unit is firmly fixed to avoid vibration and slipping while operating.

And make sure that the structure to which you are attaching the unit is secure and is able to support a weight of 10 times of the unit's weight. Also always use a safety cable that can hold 12 times of the weight of the unit when installing the fixture.

The equipment must be fixed by professionals. And it must be fixed at a place where is out of the touch of people and has no one pass by or under it.



## 2. Technical Specifications

**Light Sources:** 12x 10W 4in1 RGBW LED

Power Consumption: 150W

Power Voltage: AC 100-240V, 50/60Hz

Beam angle: 40°

Dimension: 298x282x157mm

Net Weight: 5Kgs

### Control

DMX Channel: 4/8 Channel

Control Modes: DMX 512, Auto mode, Master/Slave, Sound active

### Construction

Display: Digital panel

Data In/Out socket: waterproof 3-pin XLR sockets

Power In/Out socket: Powercon True 1 sockets

Protection Rating: IP65

### Features

Outstanding color macro effect, fade and built in programs

Dimmer: 0~100% smooth dimming



### 3. How to control the unit

The DMX512 is widely used in intelligent lighting control, with a DMX 512 controller. connect several lights together, dmx in and dmx out,

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

#### Display:

**[MENU]** menu selection or return to previous menu.

**[UP]** press [UP] through the menu list to increase/change the value of the current function.

**[DOWN]** press [DOWN] through the menu list to decrease/change the value of the current function.

**[ENTER]** confirm & quit out current function setting.

#### Display panel operation instruction

No	Show	Function	Value	Instruction
1	<b>A001</b>	DMX address	001~512	8CH mode UP, DOWN increase or reduce the value
2	<b>d001</b>	DMX address	001~512	4CH mode, UP, DOWN increase or reduce the value,
3	<b>r255</b>	Red dim	000~255	UP, DOWN Change brightness
4	<b>G255</b>	Green dim	000~255	UP, DOWN Change brightness
5	<b>b255</b>	Blue dim	000~255	UP, DOWN Change brightness
6	<b>u255</b>	White dim	000~255	UP, DOWN Change brightness
7	<b>FH99</b>	Strobe	01 ~ 255	UP, DOWN change the speed
8	<b>CC01</b>	Colors Jump	00 ~ 15	UP, DOWN change the speed
9	<b>DE01</b>	Colors Gradate	00 ~ 15	UP, DOWN change the speed
10	<b>CP01</b>	Colors Pulse	00 ~ 15	UP, DOWN change the speed
11	<b>Soud</b>	Sound-Active		UP, DOWN Change the effects



## 4. DMX channels

### DMX channel's functions and values (4 DMX channels):

Channel	Function	Instruction
CH1	R Dimmer	Red Dimmer- Dark to Bright
CH2	G Dimmer	Green Dimmer- Dark to Bright
CH3	B Dimmer	Blue Dimmer- Dark to Bright
CH4	W Dimmer	White Dimmer- Dark to Bright

### DMX channel's functions and values (8 DMX channels):

Channel	Function	Instruction
CH1	Total Dimmer	Total Dimmer- Dark to Bright
CH2	R Dimmer	Red Dimmer- Dark to Bright
CH3	G Dimmer	Green Dimmer- Dark to Bright
CH4	B Dimmer	Blue Dimmer- Dark to Bright
CH5	W Dimmer	White Dimmer- Dark to Bright
CH6	Total Strobe	Total Flash Strobe- Slow to Fast
CH7	Function Choice	0~50: CH1-CH7 Control. 51~100: Different Colors output (CH8 choose color) 101~150: Colors Jump Change. 151~200: Colors Gradate. 201~250: Colors Pulse Change. 251~255: Sound-Active
CH8	Function/Speed	Speed from slow to Fast (When the value of 7CH is 51-100 or 251-255, the function is color selection)



## 5. Trouble shooting

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 connection of power and main fuse.
2. Measure the mains voltage on the main connector.
3. Check the power on LED.

### **B. Not responding to DMX controller**

1. DMX LED should be on. If not, check DMX connectors, cables to see if link 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 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.



## 5. Fixture 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 using normal glass cleaning fluid.
- Always dry the parts carefully.
- Clean the external optics at least every 20 days. Clean the internal optics at least every 30/60 days.

