E-IMAGE

SUPPORT YOUR IMAGE

Fresnel Studio LED Light
EJ-160
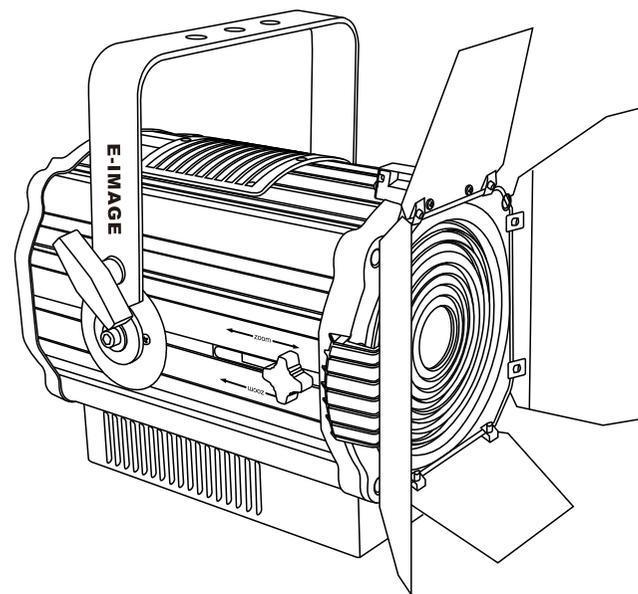
User Manual

V1.0 2022.04

E-IMAGE
Offical QR Code

www.eimagevideo.com

Contents

Cautions:

Thanks for purchasing E-IMAGE products.

We encourage you to read this manual carefully to familiarize all the details features before operation, some of which maybe new to you. The manual including all safety instructions, operation, maintance. Please make sure that all equipments is operated correctly to avoid any defects or damage.

1. Always keep this product dry. Do not use in rain or in damp conditions.

2. Do not disassemble. Should repairs become necessary, this product must be sent to an authorized maintenance center.

3. Keep out of reach of children.

4. As this product do not have waterproof function, please take measures of waterproof in rainy or damp environment.

5. Do not use or store the product if the ambient temperature reads over 45 °C.

6. Do not use the flash unit in the presence of flammable gases, chemicals and other similar materials. In certain circumstance, these materials may be sensitive to the strong light emitting from this flash unit and fire or electromagnetic interference may result.

7. This LED light is designed for professional studio , TV station and filming using.

8. Please make sure the lights is under waterproof protection in raining day.

9. Please keep this light far from any combustible.

**10.** If the connection cables is damaged, please ask professional person to change it.

For up-to-date product information, please visit **www.eimagevideo.com** and click on the product page.

Introduction:

- With the idea of enegy saving and enviroment protection, the device use lower power loss and extremely high efficiency led. The device housing cover is made of used the new high strength heat resistance engineering plastics, with beautiful shape and smooth lines. The designing and manufacturing is in compliance with the IEC standard. The device is suitable in the large-scale theatrical performance, the theater, the performance hall, the bar, night club and so on.

  The product conforms to the international standard DMX512 agreement completely, the device can be controlled In single, and also be controlled in many units.

EJ-160 Size:

Photographic Chart:

| Lux | | 38640 | 4353 | 1683 | 897 | |
| | | 9610 | 2502 | 1192 | 696 | |

| Distance(m) | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Diameter(m) | 0 | 0.43 | 0.70 | 0.96 | 1.22 | 1.49 | 1.75 | 2.01 | 2.28 |

| Lux | | 22580 | 2235 | 886 | 476 | |
| | | 4981 | 1284 | 663 | 361 | |

| Distance(m) | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Diameter(m) | 0 | 1.21 | 2.25 | 3.29 | 4.33 | 5.38 | 6.42 | 7.46 | 8.50 |

In The Box:

Fresnel LED Light	x 1 PC
Barndoor	x 1 PC
AC Power Cable	x 1 PC
3-Pin Male To Female XLR DMX Cable	x 1 PC
User Guide	x 1 PC
20A AC Cable Connector	x 1 PC
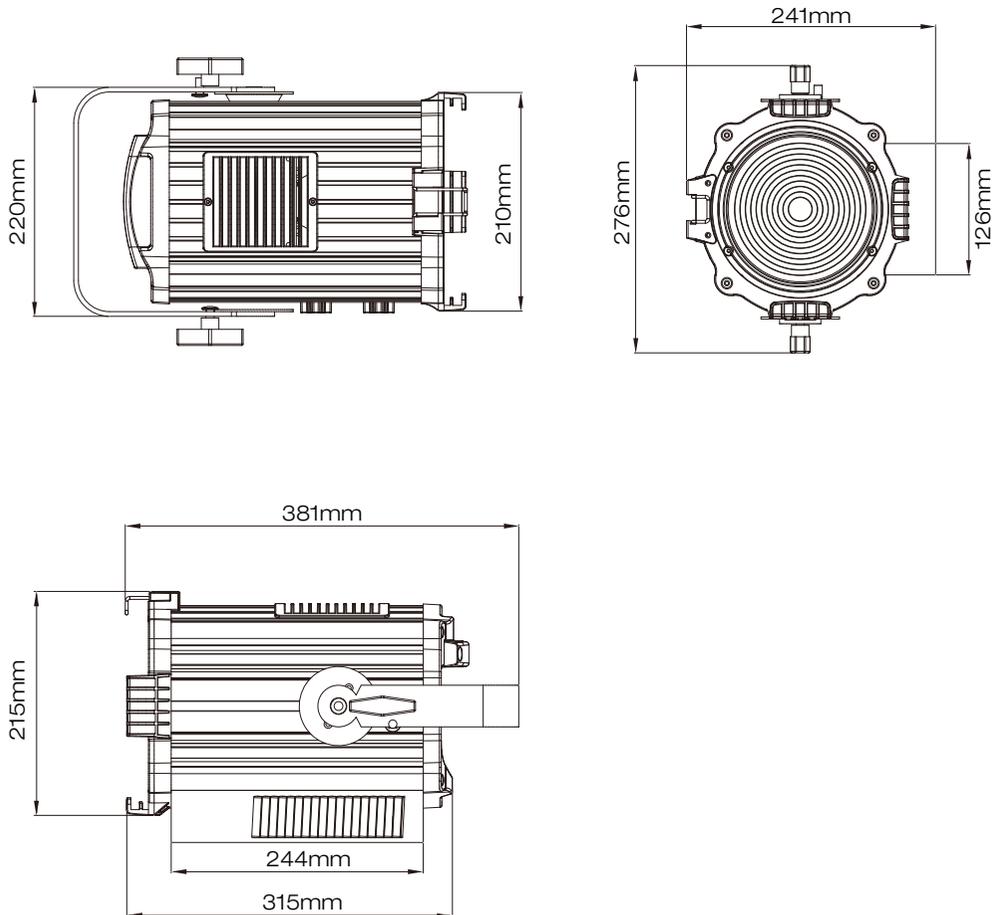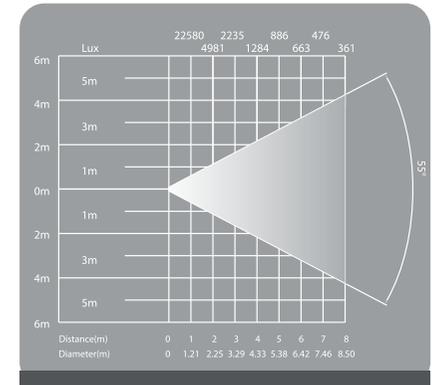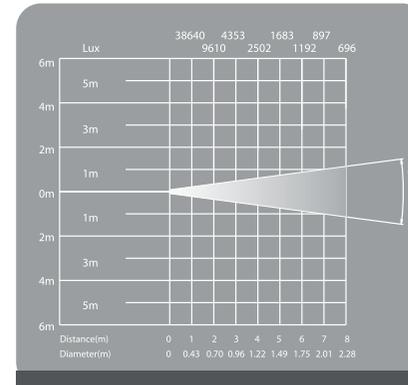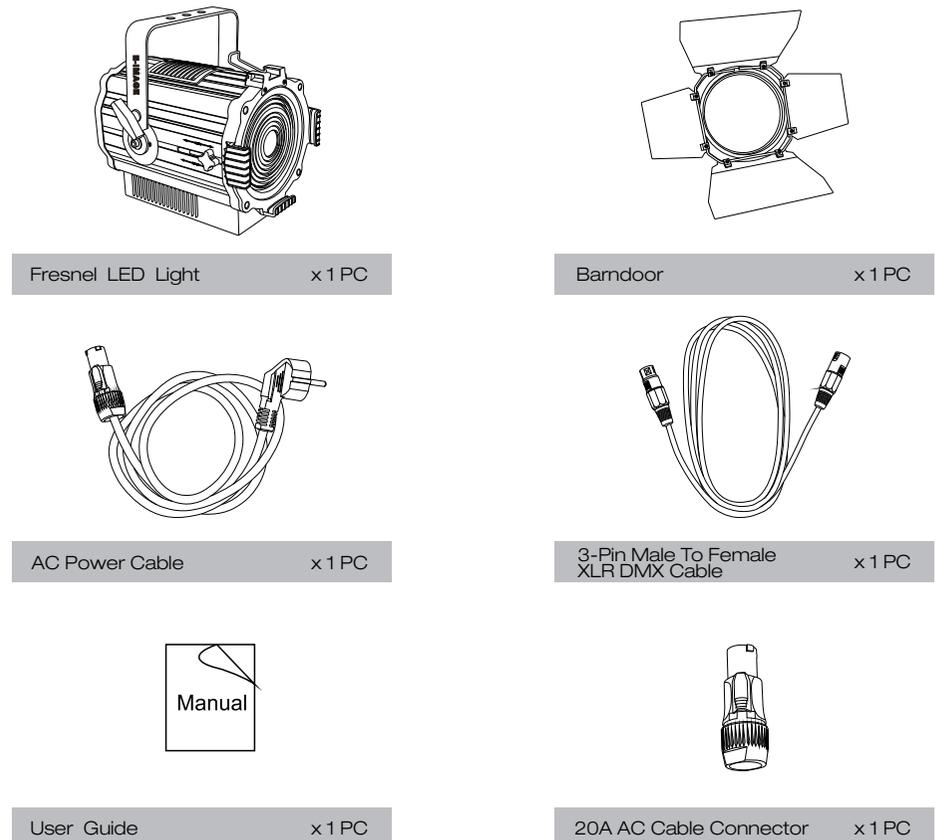
EJ-160:
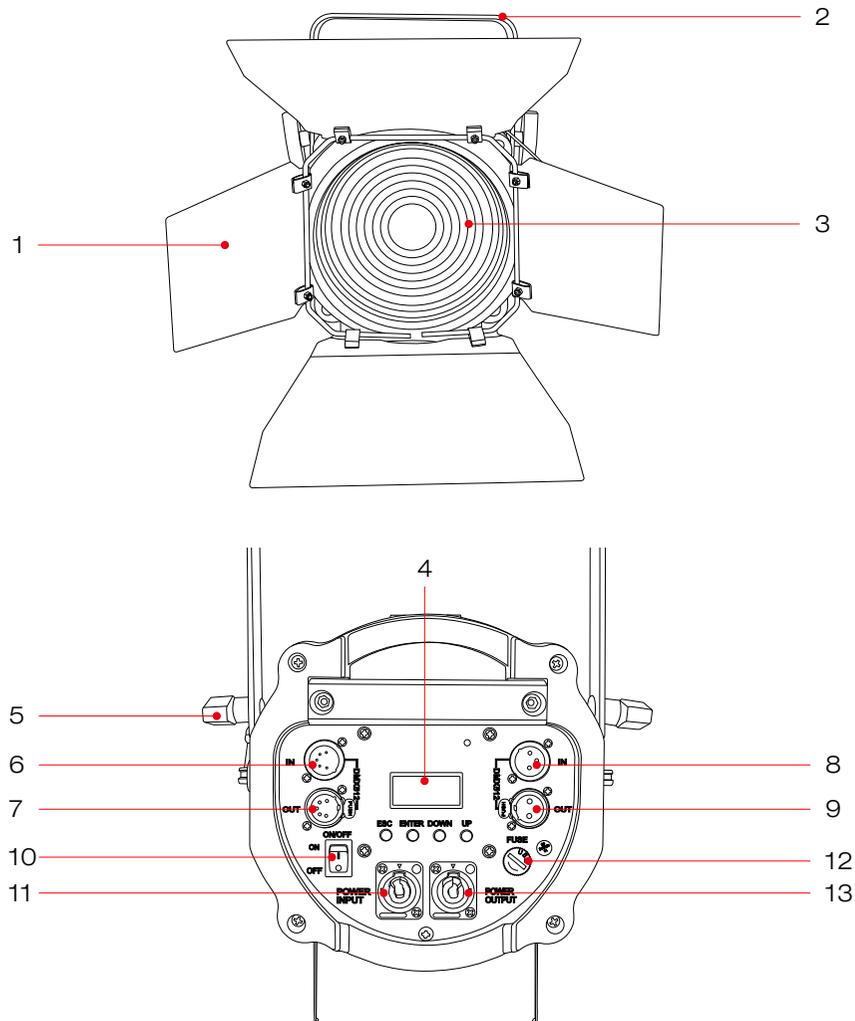
1. Barndoor
2. Yoke
3. LED Beads
4. Digital Display&Adjustment Button
5. Disk Brake Handle
6. 5-Pin DMX In Port

7. 5-Pin DMX Out Port
8. 3-Pin DMX In Port
9. 3-Pin DMX Out Port
10. ON/OFF Power Switch
11. Power Input
12. Power Output
13. Main Fuse Holder

Technical Data:

| Model	EJ-160
Power supply	AC100V-240V,50Hz/60Hz
Power consumption	150W
Lamp	COB Led 100W, white
Luminous flux	10000lm-12000lm
Lifetime of led	More than 50000hours
Color temperature	3200k or 5600k
CRI	≥85Ra or ≥95Ra
Dimmer	0-100% linear dimmer
Beam angle	15°-55°
Zoom	Adjusted by manual
Strobe	1-20 flash per second
Colling system	High quality radiator, regulating speed fan
Display	Lcd display
Control mode	International standard dmx512 signaL,with XLR 3PIN and XLR 5PIN connectors
Channel mode	1 channel mode and 2channels mode
Protection grade	IP20
Use environment temperature	−20℃-45℃
Net weight	5.8kg
Gross weight	7.5 kg
Dimensions (LxWxH)	425x315x320mm

Installation Of Barndoor:

Take out the barndoor,operation followed by the overview.
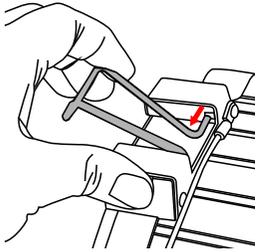
Open the spring,hold the both side of spring and take one side from the slot.
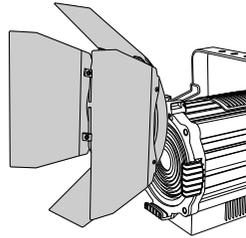
Put the barndoor with filter in the slot.
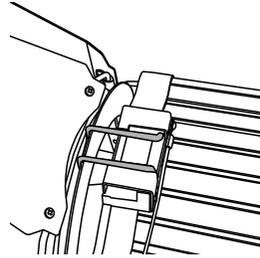
Use spring clip stuck the barndoor.

Installation :

1.Installation:

- When installation, keep the device far away the heat sensitive objects and explosivessensitive objects, leave at least 50CM of free space around the device.

- When the device put on horizontal place, the device must be placed directly on theplace, and devices must be secured with a mounting holder.

- When rigging the devices on the truss and the head face to the floor.Insert the quick-lock fasteners of the first mounting holder into the respective holes on the bottom ofthe device. Tighten the quick-lock fasteners fully clockwise. Install the second mountingholder. And the safety rope must be used at same time.

* Please use qualified safety-rope, which can hold at least 10 times the weight of thefixture. You must only use safety-ropes with quick links with screw cap. Pull the safetyrope through the hole on the bottom of the base and over the trussing system etc. Insertthe end in the quick link and tighten the fixation screw. A safety rope which already holdthe strain of a crash or which is defective must not be used again.
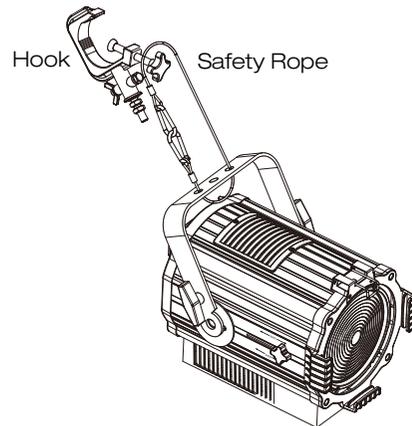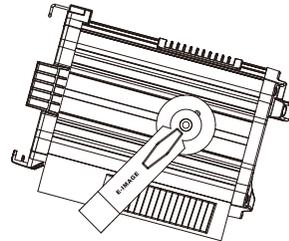
Hook   Safety Rope

* Hook and safety rope not included.

Installation :

2.Dmx512 connection:

- Please use xlr-xlr wires connect the dmx output of the controller with the dmx input of the first device, and connect the dmx output of the first device with the dmx input of the second device, always connect one output with the input of the next device until all devices are connected.
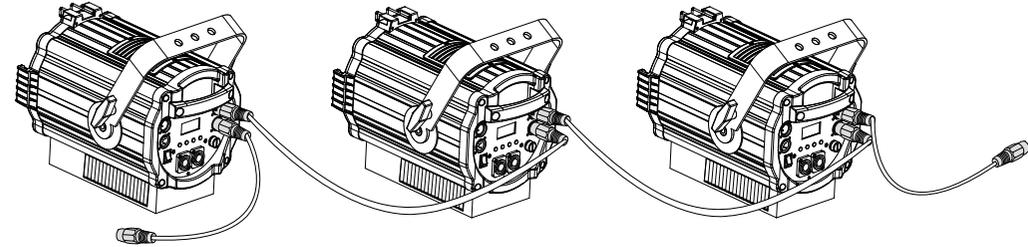
* Please use qualified XLR-XLR DMX cables.

3.Connection with power cable:

- The person involved with the power connection must be qualified, and has the electrical engineering certificate.
- Connect the device to the powe cable with the power plug.
- The earth has to be connected.
- Power consumption 150W, input power supply AC100V-240V, 50/60Hz.
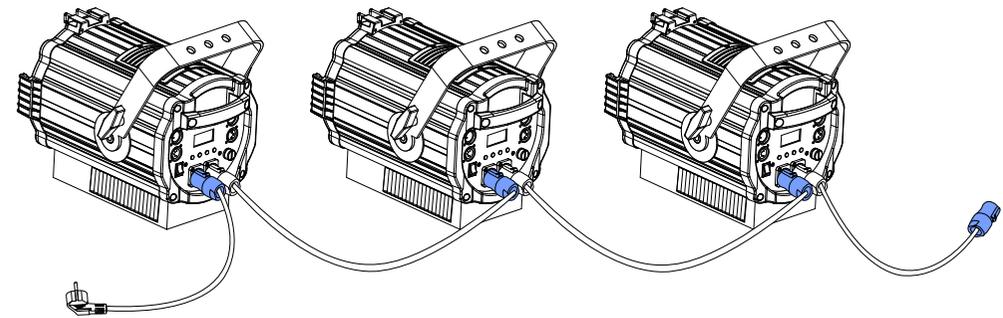
AC 100V-240V,50/60Hz

* **Important note:** the specification of power line is 3G1.5 with a maximum current 13A,when power is 200V-240V, use grey plug power interconnection on the device, each group do not exceed 16 sets of equipment; when power is 100V-120V, each interconnect please do not exceed 8 sets of equipment!

Installation :

4.Zoom:

Shown in the figure, loosen the handle, to move it forward or backward to get needed spot size, then tighten the handle .

ZOOM
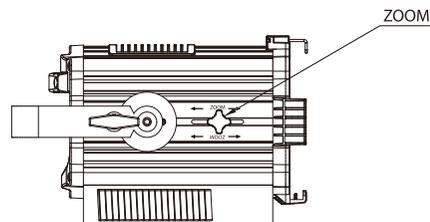
5.Dimmer:

This equipment is dimming is 0-100% linear dimming, which can be adjusted through DMX512 signal, in the absence of DMX signal can be adjusted through the device menu"ManDim".But the dimming DMX512 signal is priority, when signal input, manual dimming is invalid, in order to realize manual light, you must disconnect DMX-input.

6.Replacing fuse:

- Before replacing the fuse, unplug mains lead.
- Procedure:

Step 1: Unscrew the fuseholder on the rearpanel with a fitting screwdriver from the housing (anti-clockwise).
Step 2: Remove the old fuse from the fuseholder.
Step 3: Install the new fuse in the fuseholder.
Step 4: Replace the fuseholder in the housing and fix it.

Operation :
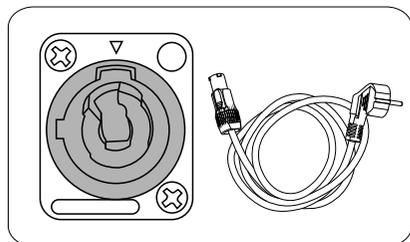
Using AC power jack :This light can be powered by AC power supply. Use a 100~240V(50/60Hz) adapter (included) to connect the light with the AC power jack.

ON/OFF

ON

OFF
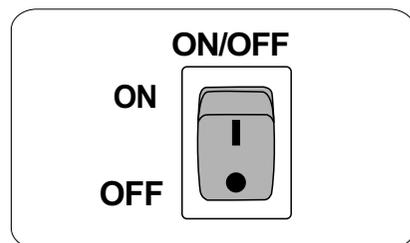
Insert connect the light with AC power supply. Switch the power on, the power indicator flash once and the video light giving out light.

Installation :

1.Description of the keys:

ESC   ENTER   DOWN   UP
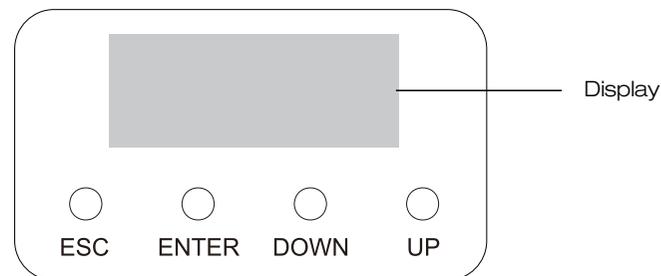
Display

2.Basic setting:

- The display will show address and other information when the unit is powered on.
- Address setting: DMX address is a DMX channel where your light starts synchronizing in the 512 channels available. By setting it up, the light will respond to any signal sent to this address.

Press **"ENTER"** key to enter main menu, it will show message **[Dmx Adr 001]**, press,**"ENTER"** key to enter, use **"DOWN"** or **"UP"** key to select required address **[001 - 511]** and press **"ESC"**, to confirm and return to main menu;

ENTER → DOWN or UP → Dmx Adr 001 → ENTER → DOWN or UP → Dmx Adr 001-511 → ESC

- Setting when unit loss signal: When DMX signal lost,can choose off the light or keep the last control setting.

Press **"ENTER"** key to enter main menu,it will show message **[Dmx Loss]**, press **"ENTER"** key to confirm, use the **"DOWN"** or **"UP"** key to select **[Off]** or **[Hold]**, and press **"ESC"** to confirm and return to main menu;

ENTER → DOWN or UP → Dmx Loss → ENTER → DOWN or UP → Dmx Loss Off or Dmx Loss Hold → ESC

* Dmx loss off: When the DMX signal is lost,it will be black out.
Dmx loss hold: After DMX signal is lost,remember the last control setting.

- Master and slave setting: Operated as a MASTER, it can beused to control other SLAVE devices with the same effect.

Press **"ENTER"** key to enter main menu,it will show message **[Master]**, press **"ENTER"** key to confirm, use **"DOWN"** or **"UP"** key to select **[Master Off]** or **[Master On]**, then press **"ESC"** key to confirm and return to main menu;

ENTER → DOWN or UP → Master Off → ENTER → DOWN or UP → Master Off or Master On → ESC

* When the DMX512 signal connected together,other lights keep same control setting with the master light.

Installation :

- Demo: To run the built-in perform program.

  Press **"ENTER"** key to enter main menu,it will show message **[Perform]**, press **"ENTER"** key to confirm, usen **"D0WN"** or **"UP"** key to select **[000-002]**, press **"ESC"** key to confirm and return to main menu;

```
ENTER → [DOWN or UP] → Perform P-000 → ENTER → [DOWN or UP] → Perform 000-002 → ESC
```

* Perform P-000: Light off.
  Perform P-001: Maximum brightness.
  Perform P-002: Strobe perform(Setting to 2channel).

- Mode setting: Have two DMX channels configurations that can be accessed from the menu.

  Press **"ENTER"** key to enter main menu,it will show message **[Channel]**, press **"ENTER"** key to confirm, use **"DOWN"** or "**UP**" key to select **[2-Chn]** or **[1 -Chn]**, press **"ESC"** key to confirm and return to main menu;

```
ENTER → [DOWN or UP] → Channel → ENTER → [DOWN or UP] → [Channel 1Chn or Channel 2Chn] → ESC
```

DMX Protocol :

  * Channel 1: Dimmer intensity 0-100%
   Channel 2: Shutter/Strobe

CHANNEL		NUMERIC	EFFECT
1	1	000-255	Dimmer intensity 0-100%
	2	0	Shutter open
		1-127	Strobe effect with increasing speed
		128-159	Sudden effect with increasing speed
		160-191	Pulse effect with increasing speed
		192-255	Random effect with increasing speed

Installation :

- Manual dimmer: Adjusting the brightness of the light,level 000-255 means lighting from dark to brightest.

  Press **"ENTER"** key to enter main menu,it will show message **[Main Dim]**, press **"ENTER"** key to confirm, use **"DOWN"** or **"UP"** key to select **[0-255]**, press **"ESC"** key to confirm and return to main menu;

```
ENTER → [DOWN or UP] → Main Dim 000 → ENTER → [DOWN or UP] → Main Dim 000-255 → ESC
```

- Fan setting: Open the fan helps to dissipate working heat.

  Press **"ENTER"** key to enter main menu,it will show message **[Fan]**, press **"ENTER"** key to confirm, use **"DOWN"** or **"UP"** key to select **[Fan Auto]** or **[Fan On]**, press **"ESC"** key to confirm and return to main menu;

```
ENTER → [DOWN or UP] → Fan → ENTER → [DOWN or UP] → [Fan Auto or Fan On] → ESC
```

- Check equipment data:Check the working temperature,working hours,serial number and version about the light.

  Press **"ENTER"** key to enter main menu,it will show message **[Display]**, press **"ENTER"** key to confirm, use **"up"** key to select **[Info]**,then you can check the unit information such as led bulb temperature **[Led Temp ###]**,unit working hours **[Hours #####]**, unit serial number **[Serial ########]**, and unit version **[Sftver #.#]**.Then press **"ESC"** key to return to the main menu;

```
ENTER → [DOWN or UP] → Display → ENTER → UP → Info → Led Temp ### → ESC
                                                      Hours #####
                                                      Serial ########
                                                      Sftver #.#
```
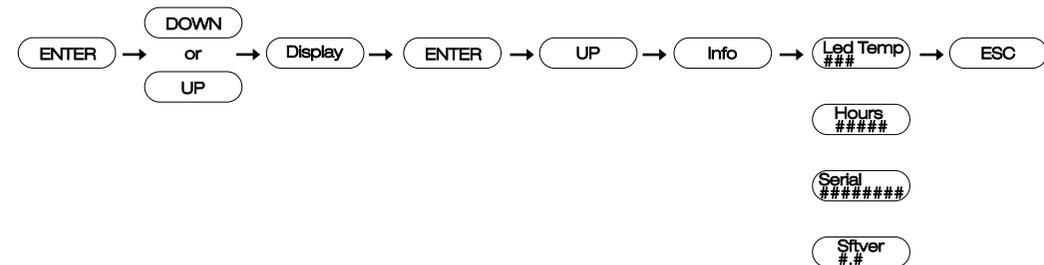
Installation :

- Display adjusting: Adjusting the length of LCD display. It can be turned off automatically after 5s, 10s, 30s, 60s or continuous on.

  Press **"ENTER"** key to enter main menu,it will show message **[Display]**, press **"ENTER"** key to confirm,display time setting, it shows **[Display Mode]**, press "ENTER" confirm. Use **"DOWN"** or **"UP"** key to select **[5,10,30,60]** second, meaning display will turn off automatically **[5,10,30,60]** second after last press any key o the control board, or select **[On]** to keep the display on, then press **"ESC"** key to confirm and return to the main menu;

- Display brightness setting: Adjusting the brightness of LCD display,level 005-255 means screen from dark to brightest.

  Press **"ENTER"** key to enter main menu,it will show message **[Display Level]**, press **"ENTER"** to confirm, use **"DOWN"** or **"UP"** key to select **[005-255]**, then press **"ESC"** key to confirm and return to the main menu;
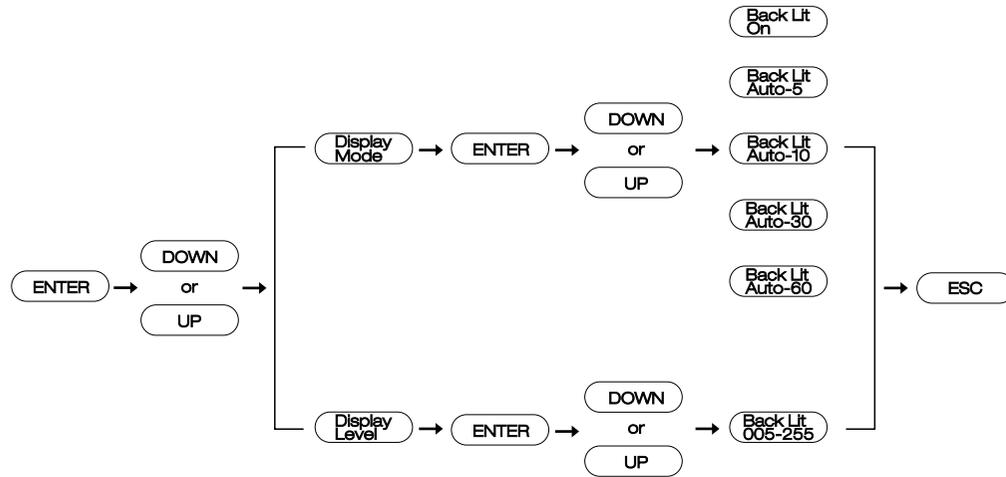
APPENDIX

Problem and solution

Problem	Reason	Resolution
Device not work	No power	AC 100W-240V, 50Hz/ 60Hz Check the power connection,and make sure device connect mains in well condition. Check if switch is on Check if the fuse is good
Led bulb is off	Led bulb damaged	Replacing led bulb
	Led driver boars damaged	Replacing led driver board
	Temperature swtich damaged	Replacing temperature switch
Fans not work	Fans damaged	Replacing fans

Customer Information

Customer Name	Contact No.
Address	

Sales Manager

Sales Date	Dealer
Dealer Contact No.	

#1 Maintenance Record

Service Date	Signature of Repairman
Cause of Problem	
Service Result: ☐ Solved ☐ Unsolved ☐ Refunded/ Replaced	