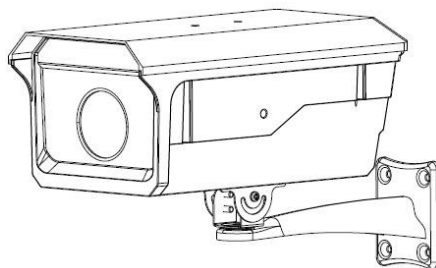
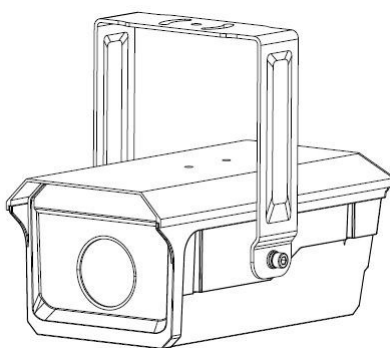




## FOS ARC Laser 2



## General instructions

### Unpacking:

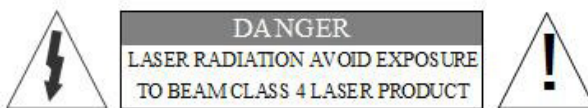
Thank you for purchasing this product. Please read all the safety and operations instructions carefully before using the product. Keep this manual for future reference. This product can create perfect laser programs and effects since it has passed a series of strictly tests before delivery. Please check the attachments listed on this page after opening the carton. If carton damaged or attachment missed in transit, please contact your dealer or our after-sales service department.

### Attachments:

- |                                   |      |
|-----------------------------------|------|
| 1. Laser Light:                   | 1PCS |
| 2. Power Cable:                   | 1PCS |
| 3. User Guide:                    | 1PCS |
| 4. DMX adapter Cable:             | 1PCS |
| 5. External Wall Support Bracket: | 1PCS |

### Notice:

1. Avoid direct eye exposure to laser beam. Never intentionally expose your eye or others to direct laser beam. It can potentially cause instant eye injury or blindness if laser beam striking directly to eyes.
2. Don't point onto any oncoming pedestrians, vehicles or traffic routes from land, sea or air.
3. Don't project at or within the flight path of aircraft. If your intended surface is within 10 nautical miles of airport, lower the angle of light so that no lasers pointing into the sky.
4. Don't turn on and off the unit frequently.
5. Before using this unit makes sure the power supply is ground.
6. Use cleaning tissue to remove the dust absorbed on the external lenses periodically to optimize light output.
7. Do not remove or break the warranty label, otherwise no warranty.
8. Only the qualified person can do the electrical installation and repair job in accordance with all applicable codes and standards.
9. WARNING: Risk of electric shock and fire. For outdoor use, make sure there is a covered Class A GFCI protected receptacle available.



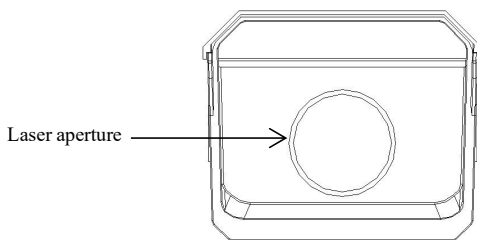
## Features:

1. 2W high brightness 7 color sky star laser light, twinkling star effects. Each star with 7 color effects, such as red, green, blue, yellow, pink, cyan and white colors, can also be DMX or remote-control dimming color matching. This feature is big differences from the current RGB twinkling star laser light whose star is single red, single green and single blue only. Colors changing effects, speed changing effects, Strobe effects and so on.
2. Full pure diode RGB laser with more stable performance and longer working life. Diode solid-state (DSS) laser is that when power on, the diode will have laser output directly. It can work properly between -30°C and 40°C.
3. Applicable for outdoor bright project, scenic area, square, park, show, etc.

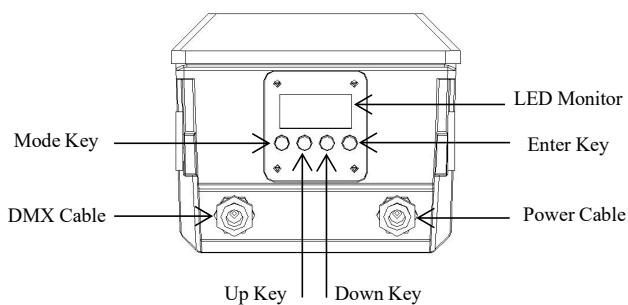
## Technical Specification

1. Voltage: AC100V-250V, 50HZ/60HZ
2. Rated Power: 20W
3. Laser:
  - 550 mW 638 nm wavelength red laser
  - 450 mW 520 nm wavelength green laser
  - 1000 mW 450 nm wavelength blue laser
4. Laser lifespan: >10000 hours
5. Waterproof Level: IP65
6. Work Environment: outdoor and indoor, -30 °C --40 °C
4. Scanner: Precise step motor with 60 degree projection angle
7. Working Modes: DMX, Manual, Auto, Master/Slave
8. DMX Control Channel: 7 channels
9. Size: 125(L)\*240(W)\*95(H)mm
10. Weight: 2.4Kg

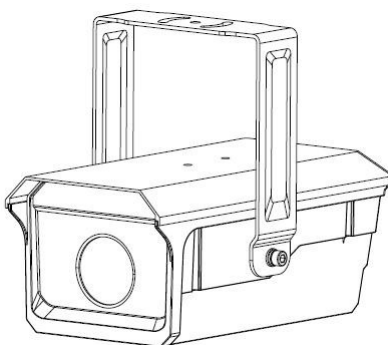
## Front Panel Picture



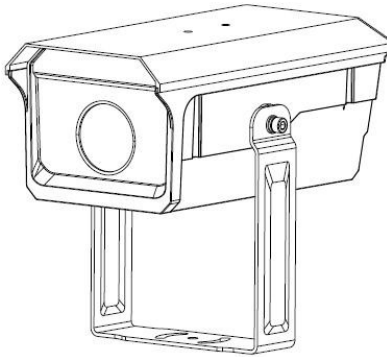
## Rear Panel Picture



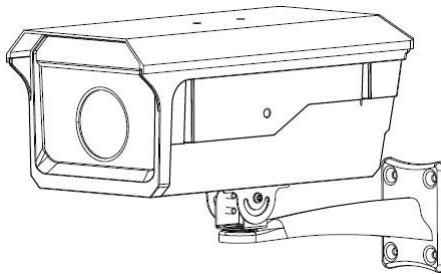
## Lighting Installation Way:



1) Hanging Installation



2) Support Installation



3) Wall mounted Installation

## Function & Setting

### Auto

Auto cycles the built-in programs without being controlled externally.

### DMX Control

The system only accepts the DMX512 signal of international standard to control the system mode, the laser beam ON /OFF, running direction, running speed and twinkle speed etc. DMX Control Parameter Chart

During DMX mode, use the Up/Down key to change the DMX address, and Enter key to save the parameter. The address will be shown on monitor as value will be changed according to the address number (from A001 to A511).

One unit has 7 channels, so each unit must be assigns 7 channels at least. We may assign 8 channels for one unit, then DMX address =  $8*N + 1$ ,  $N=0, 1, 2, 3 \dots\dots$

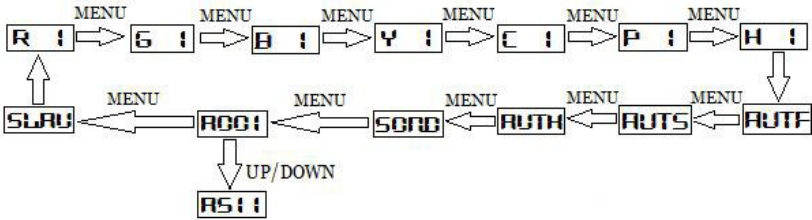
Example:

One loop address=1, two loop address=9, three loop address=17, four loop address=25






# DMX Control Parameter Chart

| Channel | Function           | Value    | Description                               |
|---------|--------------------|----------|---|
| CH1     | Model Select       | 000--049 | Laser OFF                                 |
|         |                    | 050--099 | AUTO Fast Mode, seven-color laser effect  |
|         |                    | 100--149 | AUTO Slow Mode, seven-color laser effect  |
|         |                    | 150--199 | AUTO White Mode, white color laser effect |
|         |                    | 200--255 | DMX Manual Mode, CH2~CH7 valid            |
| CH2     | Red Laser Dimmer   | 000--255 | Dimmer laser output power from 0% to 100% |
| CH3     | Green Laser Dimmer | 000--255 | Dimmer laser output power from 0% to 100% |
| CH4     | Blue Laser Dimmer  | 000--255 | Dimmer laser output power from 0% to 100% |
| CH5     | Strobe             | 000—004  | No strobe                                 |
|         |                    | 005--255 | Strobe from fast to slow                  |
| CH6     | Rolling Speed      | 000—255  | Speed from fast to slow, 255 is stop      |
| CH7     | Rolling Direction  | 000-099  | Clockwise running                         |
|         |                    | 100—199  | Stop running                              |
|         |                    | 200--255 | Counter clockwise running                 |

# Menu Operation Instruction



| LED Display |     | Description   |
|-------------|-----|---|
|             | R 1 | Red AUTO mode, the number shows the current rotation speed    |
|             | G 1 | Green AUTO mode, the number shows the current rotation speed  |
|             | B 1 | Blue AUTO mode, the number shows the current rotation speed   |
|             | Y 1 | Yellow AUTO mode, the number shows the current rotation speed |
|             | C 1 | Cyan AUTO mode, the number shows the current rotation speed   |
|             | P 1 | Purple AUTO mode, the number shows the current rotation speed |
|             | H 1 | White AUTO mode, the number shows the current rotation speed  |

|   |             |   |
|---|-------------|---|
|   | <b>AUTF</b> | Auto mode with fast run                       |
|  | <b>AUTS</b> | Auto mode with slow run                       |
|  | <b>AUTH</b> | Auto mode with slow run for white color laser |
|  | <b>A001</b> | DMX mode, DXM address range from 1 to 511     |
|  | <b>SLAV</b> | Slave mode                                    |

After every resetting and save, the new mode information (mode/ DMX address, speed etc.) will be save into the CPU and also will be shown on the LED monitor.

Mode Option, to choose the operating mode of laser.

Up/Down, to change the parameter or DMX address Confirmation, to confirm the present mode at the next operation.

## DMX Operation (DMX mode)

The mode allows a single unit to react to the beat of the music in the master mode.

1. Install the units in a suitable position (laying or appending).
2. Set Function to DMX mode.
3. Set the DMX address of the unit.
4. Use standard XLR microphone cable chain your units together via the XLR connector on the rear of the units.

For longer cable runs we suggest a terminator at the last fixture.

5. Turn on the unit power, the unit begins reset, then the unit begins working.
6. Use DMX console to control your units

Notes:

1. DMX console cannot be used in Master-Slave operation (Sound Active or AUTO mode ).
2. There should be only one master unit in Master-Slave operation.