# Battery Tube

## RGBW T128

# User Manual



This manual contains important information. Please read before operating fixture.

# CONTENTS

# 1.Safety instructions

**WARNING!!! To reduce the risk of fire, electric shock, or injury to persons, follow these important safety instructions:**

- non-professionals, not to disassemble the light arbitrarily and lighting accessories inside.
- rated voltage range: AC110V-120V/60Hz or AC200V-240V / 50HZ (to be selected).
- not beam irradiate the flammable materials, flammable materials and the lamp should be maintained at least 1M over the distance.
- lamps used in ambient temperature: -20 ℃ -40 ℃ , the highest temperature of the surface of the lamp: 60 ℃.
- to keep away from the liquid substance and humid environment.
- before using the lights must ensure the good grounding, can not install charging and remove any parts.
- the installation of lamps, must be fixed screw fasteners with additional security cable and regular inspection.
- lamps consecutive working hours is not recommended more than 10

hours.

- should stop using the lights in time when happens unusual conditions during the process
- lamp parts of the rotation, external accessories and paste parts should be regular inspected, such as the emergence of loose and rock, should be reinforced in a timely manner to prevent the accident.

- lamps adopt strong winds to refrigerate, it is easy to accumulate the dust, so you have to clean it weekly especially the cooling air opening, otherwise the dust will plug leading to poor light

# 2 .Technical specifications

- Power input : 100-240V AC 50-60Hz

- Power : 40W

- LED: 128*0.25W RGBW 4in1 ,16 pixel zone control

- 3 DMX Channel mode : 8/20/68CH

- Control mode: Master-slave, sound, auto, DMX 512, wireless, infrared remote

- Power connector: DC 12V charging port

- DMX in/out: 3pin XLR

- Control panel : LCD display

- Tube material: PMMA

- IP rating: IP65

- Length: 1038mm

- Diameter:55mm

- Net weight: 2.2kg

- Packing case: 110*60*39CM(10pcs in one case)

Battery

- Battery type: Lithium Ion

- Battery charge time: 5hours

- Battery life: 4/6/8 hours(all on) optional), more than 20hours(single color)

- Battery capacity:12V 8000mAh
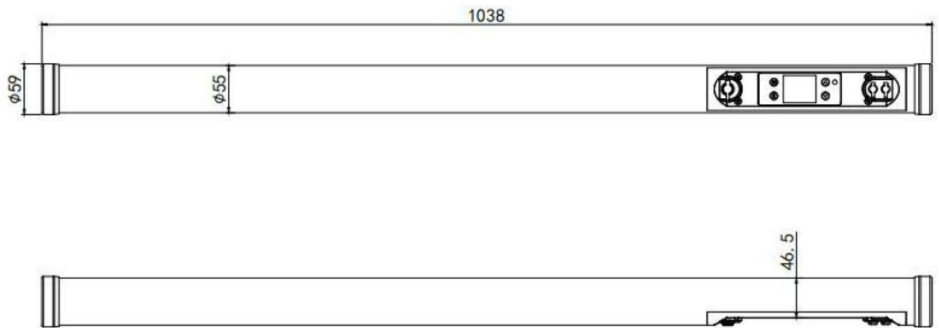
# 3. Operation

## 3.1 Control Panel



| Button | When at top Navigation | When inside Main Menu | Other meaning |
|--------|------------------------|------------------------|---------------|
| (M) | Enter Main Menu | Back to previous Menu | Power on by holding button for 3 seconds |
| (E) | Confirm | Confirm | |
| (▲) | Choose | Choose | Power off by holding UP and Down buttons same time about 3 seconds |
| (▼) | Choose | Choose | |
| Password lock:press UP,DOWN,UP ,M open the lock | | | |

# 3.2 Operate menu

| Addr | A001-A512 | DMX Address selection | |
|------|-----------|-----------------------|---|
| Mode | DMX | 8ch/20ch/68ch | |
| | Auto | Pro00~Pro20/ Sp00~Sp99 | |
| | Sound | Pro00~Pro20 / Se00~Se99 | |
| | Static | Dimmer :000-255 | |
| | | Strobe:000-255 | |
| | | C-Macro: 01~12 | |
| | | Red: 000~255 | |
| | | Green:000~255 | |
| | | Blue:000~255 | |
| | | White:000~255 | |
| | | Fade: 000~255 | |
| | | Jump: 000~255 | |
| | Slave | | |
| Setting | W-Dmx (Link RDX1-RDX4) | Link RDX2--Sweden Wireless DMX | |
| | | Link RDX4--Guangzhou Wireless DMX | |
| | | Unlink RDX-- DMX OFF | |
| | Group | 1ch / 2ch / 3ch / 4ch / 5ch / 6ch / 7ch | |
| | Display | on / off | |
| | Display Rev | on / off | |
| | Limiter | on / off | |
| | Key Lock | on / off | |
| | Frequency | 3K Hz / 22K Hz | |
| | DMX Fail | Blackout / Sound / Auto / Hold | |
| System Info | Firmware | V1.3 | |
| | Time Info | (XX)H | |

## 3.3 Ways to control

The light can be controlled in several ways:

IR •))   Use infrared remote control, point it at individual lights and press the desired effect. Note that the IR sensor is next to the display.

DMX ⦿   The light can be controlled by DMX512.
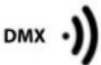
DMX •))   The light can also be controlled by wireless DMX,   the built-in receiver Compatible with the world's major wireless communication protocols. Whether you use Sweden or Guangzhou wireless transceiver, we can be fully compatible with it

## 3.4 controlled by infrared

The light can be controlled by the infrared remote :
Firstly choose Auto 、Sound or Static mode of tube, and then exit interface.

- 1-Press remote ON button,the fixture automatically exits the current mode and
  enters infrared remote control mode.

- 2-Press any Static color to switch the corresponding color on the remote
  panel,after determined the color, press STROBE key and then press Speed of
  Effect key cans witch different strobe frequencies.
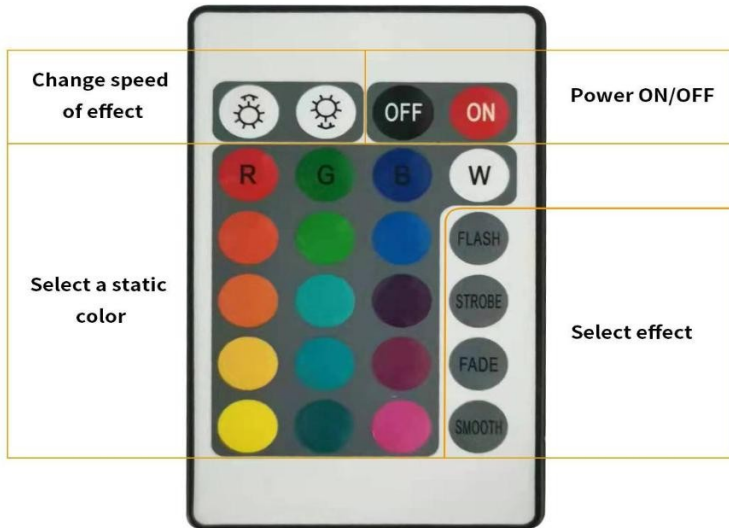
- 3-Press FLASH key to switch Auto mode,press FLASH repeatedly to switch to different Auto mode,In addition, press the select and effect speed key to select different Auto speed.
- 4-Pressing STROBE alone will not work and needs to be used with Static color.
- 5-Press FADE will appear color fade,if press speed of effect key can adjust the speed of close fade.
- 6-Press SMOOTH is Sound control mode, press SMOOTH repeatedly can switch different sound mode,and it will be has different Sound mode speed when press speed of effect Key.

# 3.5 controlled by wired DMX

The fixture itself has 2-3.5MM audio and video sockets,through specialized DMX Cable can be connect with DMX console.
It must be set to DMX mode and Menu(W-DMX--Unlink RDX)

# 3.5 controlled by wireless DMX

Two mode：Guangzhou and Sweden
### 3.5.1 Guangzhou Wireless dmx
The operation method of fixture using Guangzhou wireless dmx as follows:

- Firstly,Set the fixture to DMX Mode

- Secondly Set Menu(W-DMX) to Link RDX2

- Thirdly, on the Menu(GROUP) set any of groups,Groups 1 through 7, the color
  are red, green, yellow, blue, purple, cyan,and white.

- Through wireless transmitter button stand switch indicator color,make it keep the
  same color as wireless group.

The above operation can make wireless pairing successful.

### 3.5.2 Sweden Wireless

The operation method of fixture using Sweden wireless dmx as follows:

Firstly,Set the fixture to DMX Mode.

Secondly Set Menu(W-DMX) to Link RDX1.

Thirdly Press wireless transmitter key make it paired with fixtures.



The above operation can make wireless pairing successful.

# 4 .DMX channel sheet

| 8 Channel | | |
|---|---|---|
| CH | Function | Value |
| 1 | Total dimmer | Dimmer 0%-100% |
| 2 | Strobe | 000-008: no strobe |
| | | 009-255: strobe from slow to fast |
| 3 | Red | Red dimmer 0%-100% |
| 4 | Green | Green dimmer 0%-100% |
| 5 | Blue | Blue dimmer 0%-100% |
| 6 | White | White dimmer 0%-100% |

| 7 | Color Chase | Effect 1-20 |
|---|-------------|-------------|
| 8 | Chase speed | Chase effect from slow to fast |

| **2**0 **Channel** | | |
|------|----------|-------|
| CH | Function | Value |
| 1 | Total dimmer | Dimmer 0%-100% |
| 2 | Strobe | 000-008: no strobe |
| | | 009-255: strobe from slow to fast |
| 3 | Group 1 | Section 1 Red, green, blue and white free color change |
| 4 | Group 2 | Section 2 Red, green, blue and white free color change |
| 5 | Group 3 | Section 3 Red, green, blue and white free color change |
| 6 | ... | .... |
| 18 | Group 16 | Section 16 Red, green, blue and white free color change |
| 19 | Color Chase | Effect 1-20 |
| 20 | Chase speed | Chase speed from slow to fast |

| **6**8 **Channel** | | |
|------|----------|-------|
| CH | Function | Value |
| 1 | Total dimmer | Dimmer 0%-100% |
| 2 | Strobe | 000-008: no strobe |
| | | 009-255: strobe from slow to fast |
| 3 | R1 | Red 1 dimming 0 to 100% |

| 4 | G1 | Green 1 dimming 0 to 100% |
|---|---|---|
| 5 | B1 | Blue 1 dimming 0 to 100% |
| 6 | W1 | White 1 dimming 0 to 100% |
| 7 | ... | ... |
| 63 | R16 | Red 16 dimming 0 to 100% |
| 64 | G16 | Green 16 dimming 0 to 100% |
| 65 | B16 | Blue 16 dimming 0 to 100% |
| 66 | W16 | White 16 dimming 0 to 100% |
| 67 | Color Chase | Effect 1-20 |
| 68 | Chase speed | Chose effect from slow to fast |

# 5 .Photometric report

## 5.1 Illumination parameters



| Distance(m) | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|
| Mode1 RGBW(lux) | 410 | 110 | 51 | 30 | 19.5 |
| Mode2 RGBW(lux) | 260 | 73 | 34 | 19.5 | 13 |
| Mode3 RGBW(lux) | 170 | 50 | 23.5 | 13.8 | 8.9 |
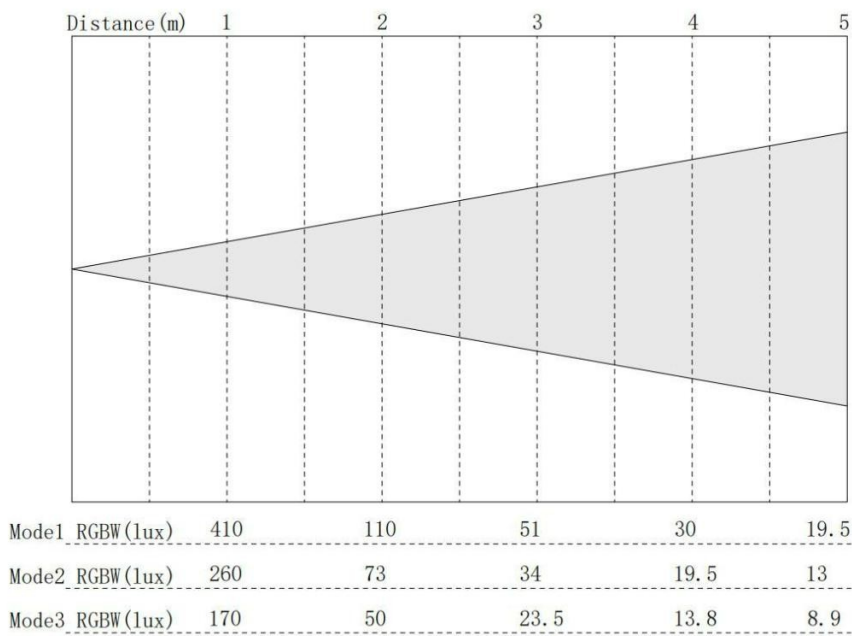
# 5.2 Color parameter

## White
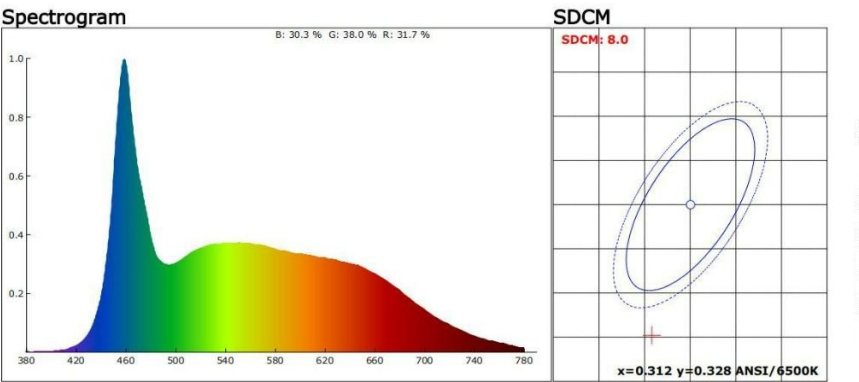


**Color Parameter:**

| | | | | | | |
|---|---|---|---|---|---|---|
| x: 0.3081 | y: 0.3134 | u: 0.2006 | v: 0.3060 | u': 0.2006 | v': 0.4590 |
| CCT: 6932 K | R_ratio: 31.7 % | G_ratio: 38.0 % | B_ratio: 30.3 % | | |

Ra: 91.3          AvgR: 90.2

| | | | | | | |
|---|---|---|---|---|---|---|
| R1: 93.7 | R2: 94.0 | R3: 95.6 | R4: 86.9 | R5: 90.8 | R6: 91.5 | R7: 88.3 | R8: 90.1 |
| R9: 90.7 | R10: 90.9 | R11: 90.5 | R12: 66.1 | R13: 94.6 | R14: 98.7 | R15: 90.8 | |

## RGBW
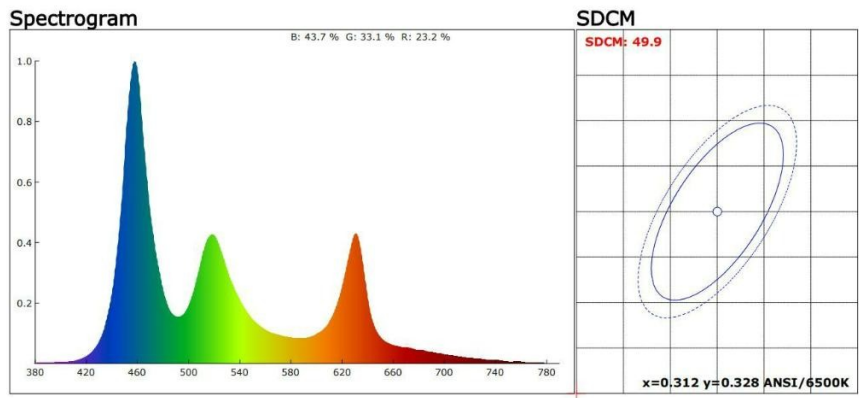


**Color Parameter:**

| | | | | | | |
|---|---|---|---|---|---|---|
| x: 0.2463 | y: 0.2439 | u: 0.1813 | v: 0.2693 | u': 0.1813 | v': 0.4040 |
| CCT: 44049 K | R_ratio: 23.2 % | G_ratio: 33.1 % | B_ratio: 43.7 % | | |

Ra: 72.4          AvgR: 58.1

| | | | | | | |
|---|---|---|---|---|---|---|
| R1: 61.0 | R2: 80.5 | R3: 87.7 | R4: 71.7 | R5: 74.4 | R6: 81.6 | R7: 77.9 | R8: 44.4 |
| R9: -89.7 | R10: 57.3 | R11: 60.4 | R12: 64.0 | R13: 63.7 | R14: 89.0 | R15: 47.4 | |

# 6.Package contents

- 1*Tube
- 1*Remote
- 2*Ring
- 1*Tripod
- 2*DMX Cable
- 1*Charger

# 7.Handing

# 7.1 Mounting Accessories

## 1.1.1  Small tripod

1.1.2  For a quick vertical setup, the Small tripod can be screwed onto the tube via one of its M8 threads. The Small tripod can be folded together for a convenient transportation.
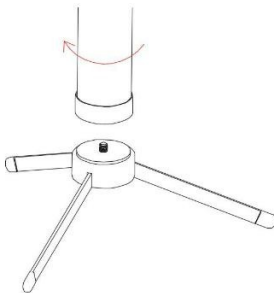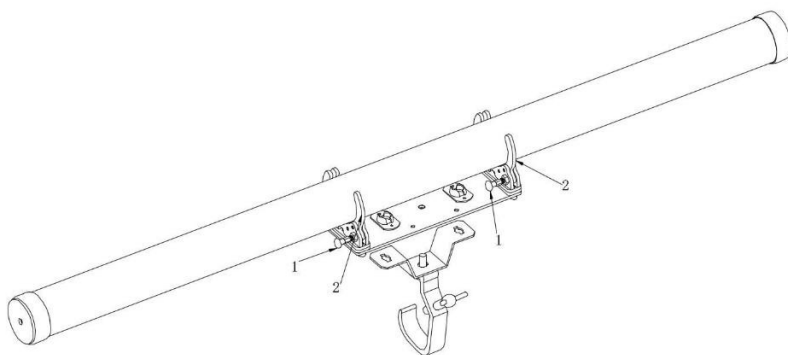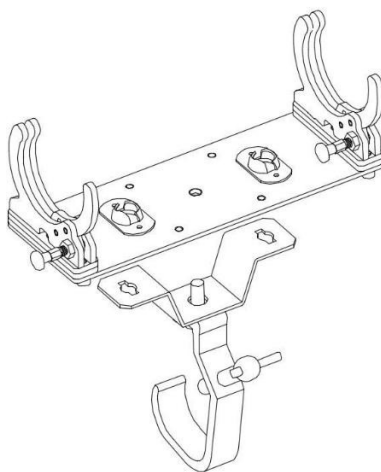
**Please note:** the M8 threads are not designed    for several tubes to be screwed together to form one long tube element.
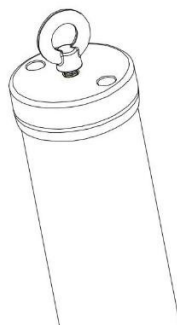
# 7.1.2 Wing plate

The wing plate is designed to install and

fixed of hook

Picture 1 is the self-locking indexing pin,picture 2 is movable clip,when clamp the

tube,Firstly rotate the self-locking indexing pin to the cancel self-locking position,then

press the movable clip forced to make the self-locking indexing pin locked movable

clip,the wing plate will be clamped the tube.


## 7.1.3Rings



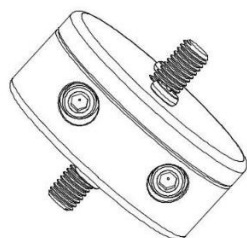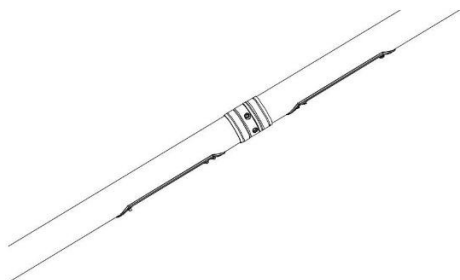Rings can be screwed into the M8 Battery Tube.
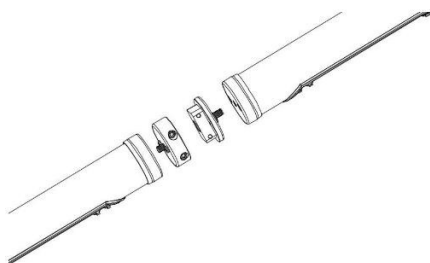

## 7.1.4  4 in one fixing plate

4 in one fixing plate can be connected

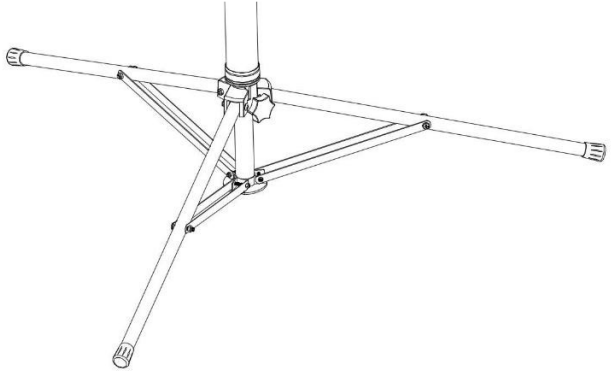with wing plate,4 tubes will formed

arrange effects at the same time.
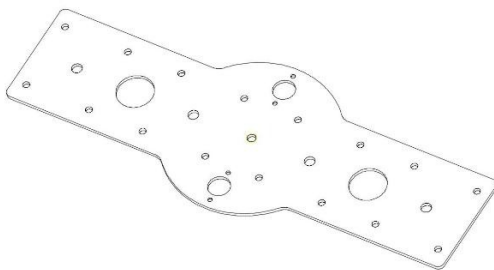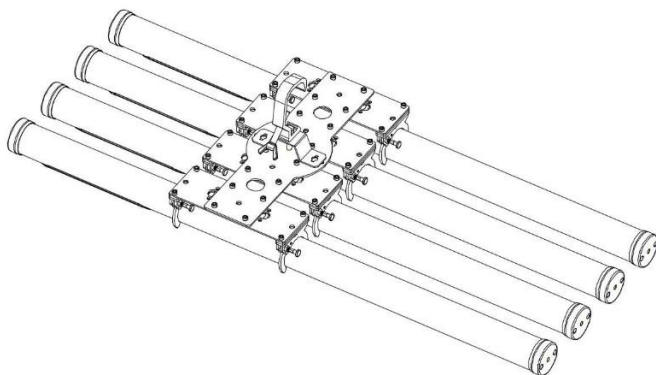
# 7.1.5 Adapt piece

Through Adapt piece can be connected two

tubes,combined into a 2-meter tube.

## 7.1.6 Big tripod

For a quick vertical setup，the big tripod can be screwed onto the tube via one of its M8 threads. The Small big tripod can be folded together for a convenient transportation.

## 7.1.7 Support base

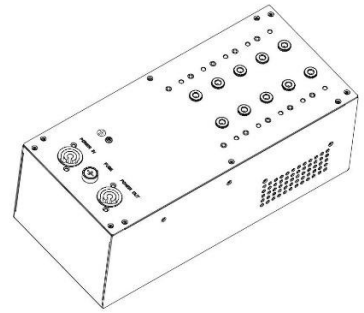For a quick vertical setup, the support base can be screwed onto the tube via one of its M8 threads.
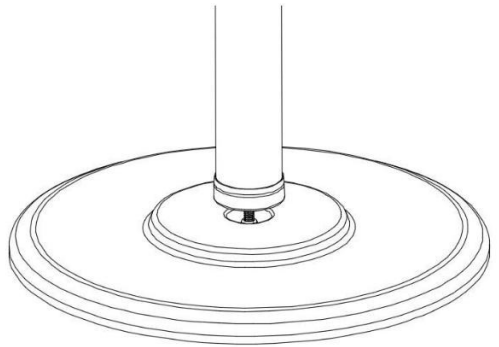
## 7.1.7 Charging box

The charging box can supply 10 tubes at the same time

charge

**CAUTION**

**Remove the charging box from the Flightcase before recharging the tubes**

# 7.2 Battery

While running on battery,The fixture will default to the second level output,It can adjust the maximum brightness (first level) output and the minimum brightness (third level) output through the control panel.

The battery is specified to last for 500 full discharge cycles.    Its runtime will have decreased to 70% by then.    To increase the battery life, it is recommended to recharge as early as possible and not let the light run until the battery is fully discharged.Please do not put all the power on standby, leave 30% power on standby, and charge once every six months .

If operated below 20°C, the battery runtime may be slightly shorter than predicted. This is also true if the lights are stored for a long time at cold temperature right before they are used.
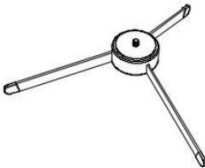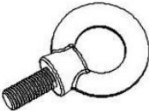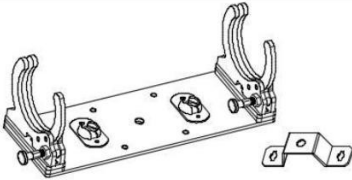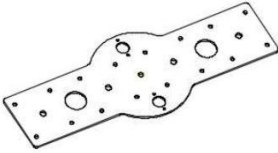
The light is constantly monitoring the LED temperature and dims down the brightness if it exceeds 65°C.   That ensures a save and long-live operation but in a hot environment the brightness might be slightly lower.
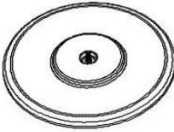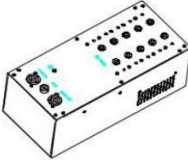
# 8 .Product explosion diagram
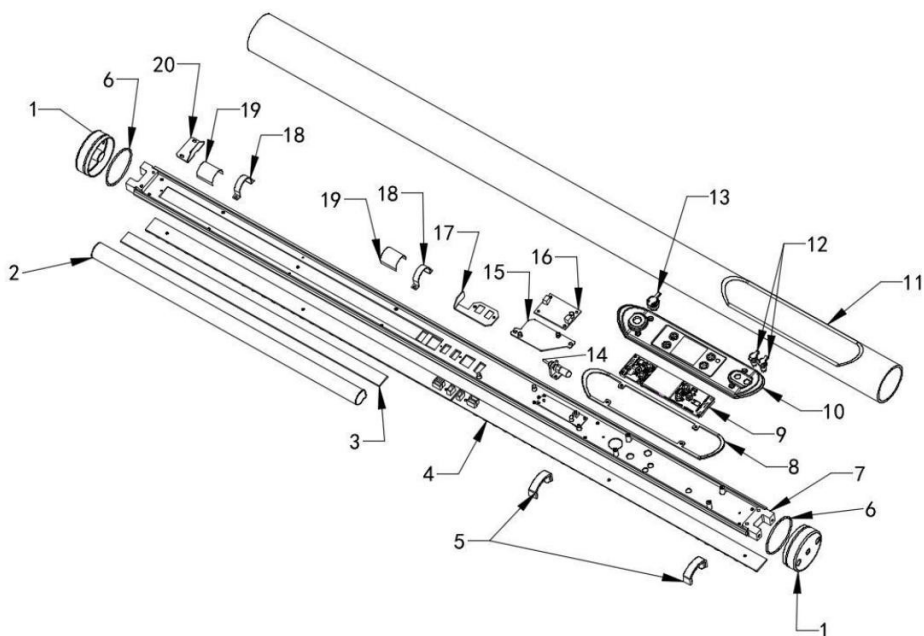
| S N | NAME | S N | NAME | S N | NAME |
|---|---|---|---|---|---|
| 1 | End cover | 2 | Battery | 3 | EVA cotton A |
| 4 | LEDs board | 5 | Support blcok | 6 | O-type ring |
| 7 | Connector | 8 | Waterproof rubber ring | 9 | Display board |
| 10 | Display shell | 11 | Diffuser | 12 | DMX socket |
| 13 | Charging socket | 14 | Antenna | 15 | Voltage stabilizer fixing plate |
| 16 | Voltage stabilizer | 17 | Battery limit plate A | 18 | Battery platen |
| 19 | EVA cotton B | 20 | Battery limit plate B | | |

# 9.Parts list

| NAME | Small tripod | NAME | Rings |
|---|---|---|---|
| Standard accessories | | Standard accessories | |
| NAME | Wing plate | NAME | 4 in one fixing plate |
| Optional accessories | | Optional accessories | |

| NAME | Adapting piece | NAME | Big tripod |
|---|---|---|---|
| Optional accessories | | Optional accessories | |
| NAME | Support base | NAME | Charging box |
| Optional accessories | | Optional accessories | |

✂

## Warranty Card

| Name | Model |
|------|-------|
|      |       |

| Production | Purchase |
|------------|----------|
|            |          |

| End User |
|----------|
| Company Name: |
| Add: |

| Sale Store |
|------------|
| Link man: |
| Tel:                    Stamp |

Description: These must be truthfully fill, seal by the end-user and point-of-sale, or else the warranty will not work (warranty period and terms, see the following)

warranty period：one year since purchase warranty terms：1、If fail when using the product in normal state, you can made under the provisions of the warranty, show the warranty card and purchase bills(copy), and enjoy free maintenance service in a specific service center or the manufacturer.

2. The following will be the implementation of paid service:

(1)Without the effective warranty card

(2)There's blank, alter and no point-of-sale name

(3)Fail caused by unresistance

(4)Fail caused by transportation or unloading

(5)Fail caused by not operate by manual

(6)Fail caused by disassemble without unauthorized

(7)Fail caused by using the unauthorized control system

## Note:

Based on our company continue to improve the product, the statement containing data may have changed, and will not notice the change any more. Company retains its right to change specifications related when product is improved. Thanks for your understanding.