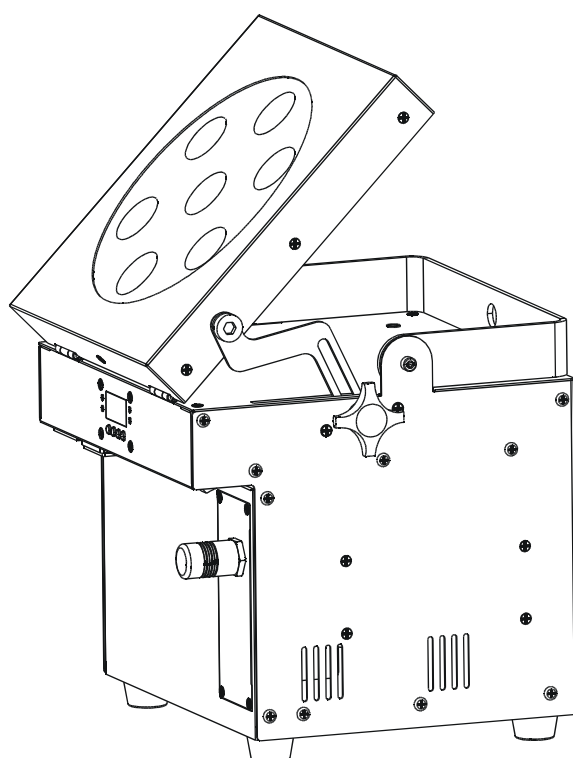# ACME®

PORTA PAR

BLED-7TC
BLED-7TC-A
BLED-7TC-B
BLED-7TC-AB

User Guide

Please read the instruction carefully before use

Contents

1. Safety Instructions

⚠ **WARNING**

> **Please read the instructions carefully which includes important information about the installation, operation and maintenance.**

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

- Unpack and check carefully there is no transportation damage before using the fixture.

- Before operating, ensure that the voltage and frequency of power supply match the power requirements of the fixture.

- It's important to ground the yellow/green conductor to earth in order to avoid electric shock.

- Disconnect main power before servicing and maintenance.

- Use safety chain when fixes this fixture. Don't handle the fixture by taking its head only, but always by taking its base.

- Maximum ambient temperature is Ta : 40℃. Don't operate it where the temperature is higher than this.

- Unit's surface temperature may reach up to 85℃. Don't 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.

- In the event of serious operating problem, stop using the fixture immediately. Never try to repair the fixture 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 connect the device to any dimmer pack.

- Do not touch any wire during operation and there might be a hazard of electric shock.

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

- The housing must be replaced if they are visibly damaged.

- Do not look directly at the LED light beam while the fixture is on.

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 fixture. Do not open the housing or attempt any repairs yourself. In the unlikely situation, your unit may require service, please contact your nearest dealer.

2. Technical Specifications

- **DMX Channel**：4 channel modes
- **LED:** 7 x 3W RGB(Tri-color) LED
- **Power Supply**：

  Input Voltage: AC 100V~240V, 50/60Hz

- **Power Consumption:** 34W
- **Fuse:** T 6.3A
- **Dimension:** 243 x 228.5 x 233.5 mm
- **Weight:** 5.6kgs (BLED-7TC, BLED-7TC-A)

  13.6kgs (BLED-7TC-B, BLED-7TC-AB)
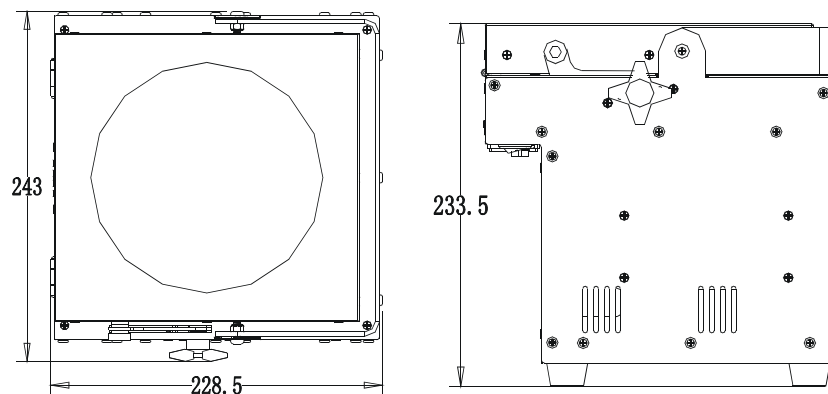
Note: BLED-7TC (Without Antenna and Battery)

BLED-7TC-A (With Antenna, without Battery)

BLED-7TC-B (With Battery, without Antenna)

BLED-7TC-AB (With Antenna and Battery)

3. 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. Always ensure 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.
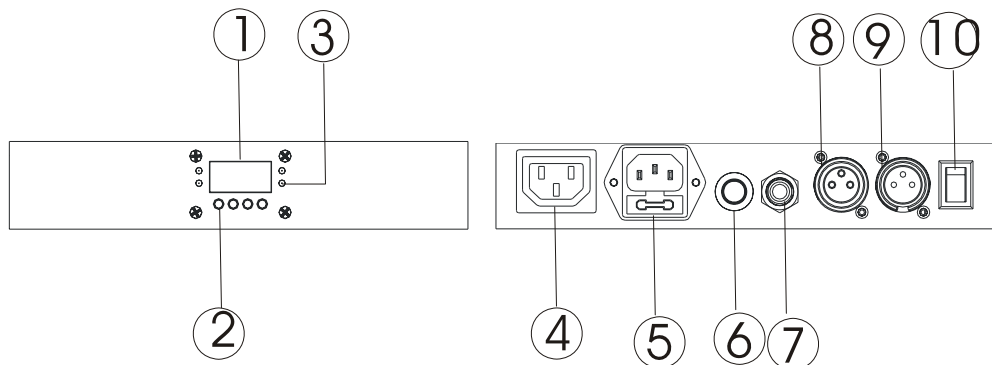
3.1 The Method of Connecting Wireless modules

If you want to insure that the unit has wireless function, you should connect the wireless modules (A) to the motherboard (B) as following ways. The only thing that you should pay more attention is just the red line. Please position it at right place.
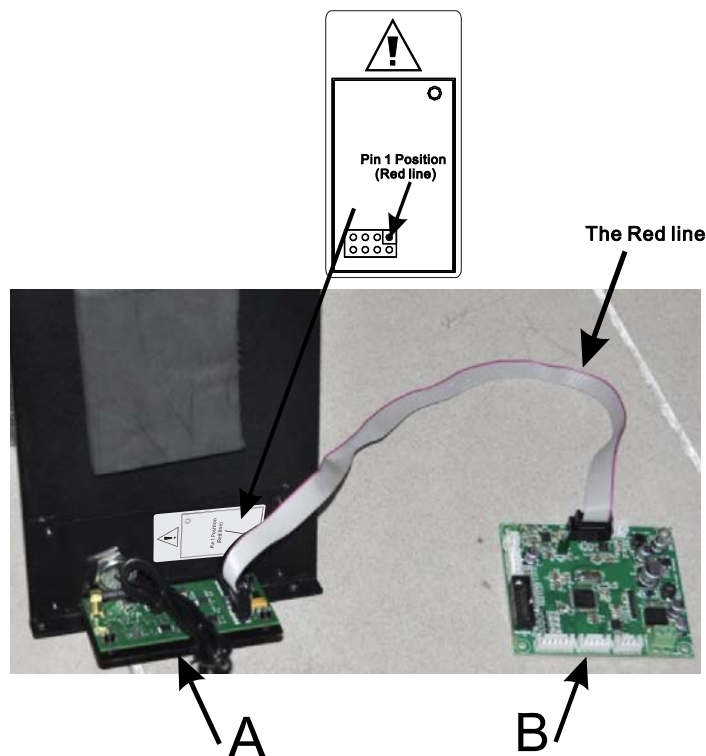
4. How to Set the Fixture

4.1 Control Panel

① **Display:** To show the various menus and the selected functions.

② **Button:**

MENU	To select the programming functions
DOWN	To go backward in the selected functions
UP	To go forward in the selected functions
ENTER	To confirm the selected functions

③**LED:**

MASTER/SLAVE (Red, Left side)	On	Master Mode
	Off	Slave Mode
DMX (Red, Right side)	On	DMX input present
BATTERY (Orange)	On	Battery status
SOUND (Green)	Flashing	Sound activation

④ **Mains output:** Connect to supply mains power for the next unit.

⑤ **Mains input:** Connect to supply mains power.

⑥ **Microphone:** Receive music for the sound active.

⑦ **Only for remote control:** By connect to the CA-8 to control the unit for Stand by, Function and

Mode function.

⑧ **DMX output:** For DMX512 link, use 3/5-pin XLR plug cable to link the next unit.

⑨ **DMX input:** For DMX512 link, use 3/5-pin XLR plug cable to input DMX signal.

⑩ **Power Switch:** Turns On/Off the power.

4.2 The Battery Indicator & Charge

Battery Indicator:

The LED (Battery indicator) on the front of unit lets you know the current status of the battery:

- When the Orange LED is fully lit the fixture is fully charged.

- When the Orange LED begins flash slowly, the charge is getting low.

- When the Orange LED begins to flash rapidly, it means that the Battery is going to die soon and needs to charge.

Note: When the LED indicator starts flashing fast, indicating the battery is about to die, it is the best to stop using the unit, and start charging it. If you let the battery die completely, recharging a completely dead battery is very hard on the unit and will take some time.
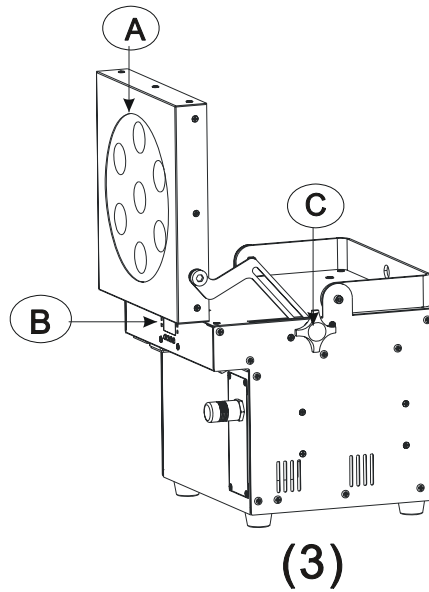
Battery Recharge:

To recharge the battery, plug the charger into the front of the unit and plug the other end into a matching power supply. It takes about 3 hours to reach full charge.

4.3 Change angle

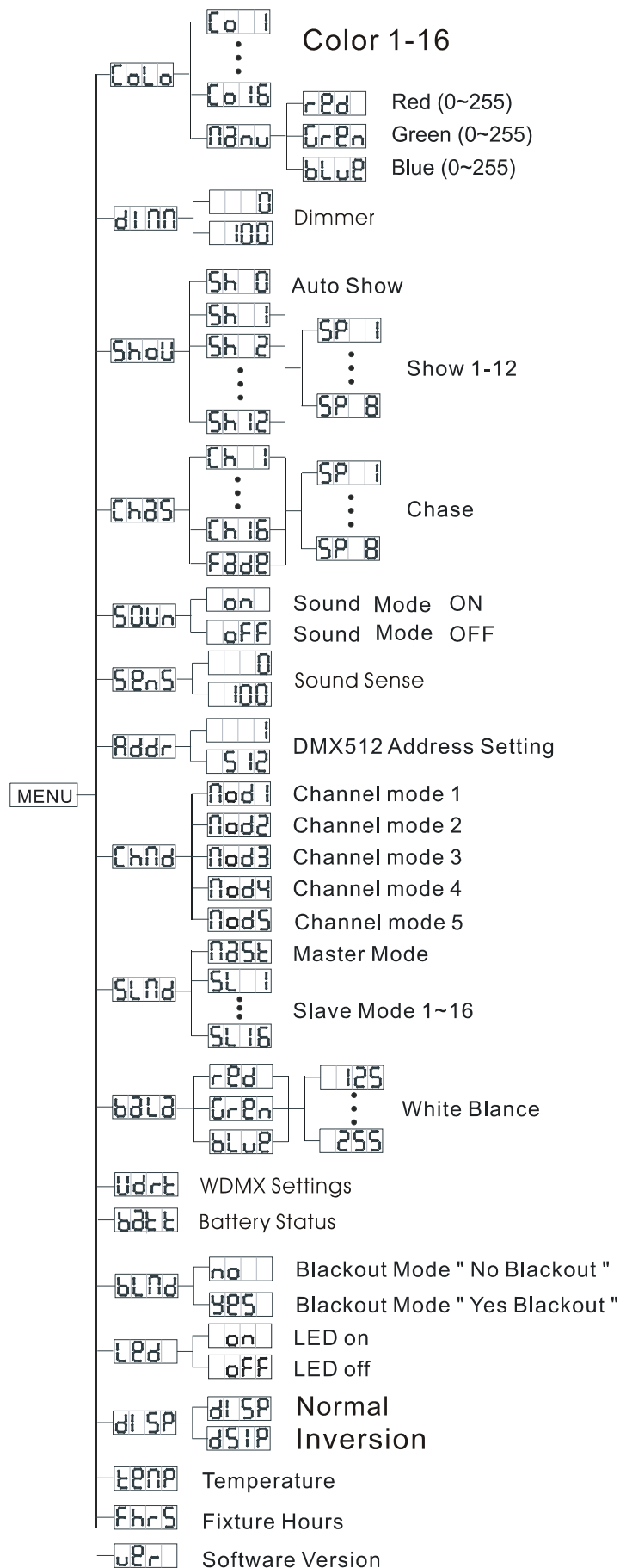For creating a different light show, you can change the angle between the A and B as following:

(1)
(2)

(3)
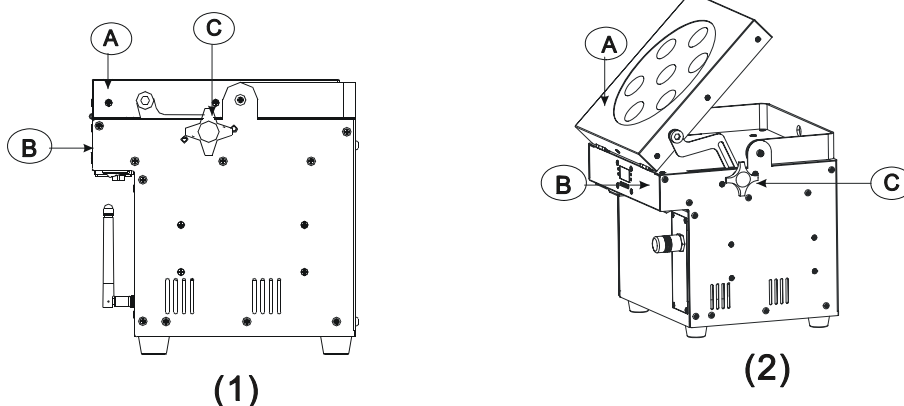
1, A and B are closed (1);

2, To rotate C button, and change the angle as you required like (2), (3).

4.4 Main Function

To select any of the given functions, press the **MENU** button to show the required option on the display. Select the function with the **ENTER** button and the display will blink. Use the **DOWN** and **UP** buttons to change the mode. Once the required mode has been selected, Press the **ENTER** button to store. To go back to the main menu without any changes press the **MENU** button. Hold and press the **MENU** button about one second or wait for one minute to exit the menu mode. The main functions are shown below:

```
MENU
├─ CoLo ─┬─ Co 1        Color 1-16
│        │   ⋮
│        ├─ Co 16 ──┬─ rEd    Red (0~255)
│        └─ NEnu ───┼─ GrEn   Green (0~255)
│                   └─ bLuE   Blue (0~255)
│
├─ diNN ─┬─ 0          Dimmer
│        └─ 100
│
├─ ShoU ─┬─ Sh 0       Auto Show
│        ├─ Sh 1
│        ├─ Sh 2 ──┬─ SP 1
│        │   ⋮      │   ⋮        Show 1-12
│        └─ Sh 12 ─┴─ SP 8
│
├─ ChAS ─┬─ Ch 1 ──┬─ SP 1
│        │   ⋮      │   ⋮        Chase
│        ├─ Ch 16 ─┴─ SP 8
│        └─ FadE
│
├─ SOUn ─┬─ on        Sound  Mode  ON
│        └─ oFF       Sound  Mode  OFF
│
├─ SEnS ─┬─ 0         Sound Sense
│        └─ 100
│
├─ Addr ─┬─ 1         DMX512 Address Setting
│        └─ 512
│
├─ ChNd ─┬─ Nod 1     Channel mode 1
│        ├─ Nod2      Channel mode 2
│        ├─ Nod3      Channel mode 3
│        ├─ Nod4      Channel mode 4
│        └─ NodS      Channel mode 5
│
├─ SLNd ─┬─ NASt      Master Mode
│        ├─ SL 1
│        │   ⋮        Slave Mode 1~16
│        └─ SL 16
│
├─ baLa ─┬─ rEd ──┬─ 125
│        ├─ GrEn  │   ⋮        White Blance
│        └─ bLuE ─┴─ 255
│
├─ Udrt     WDMX Settings
├─ batt     Battery Status
│
├─ bLNd ─┬─ no        Blackout Mode " No Blackout "
│        └─ YES       Blackout Mode " Yes Blackout "
│
├─ LEd ──┬─ on        LED on
│        └─ oFF       LED off
│
├─ diSP ─┬─ diSP      Normal
│        └─ dSiP      Inversion
│
├─ tENP     Temperature
├─ FhrS     Fixture Hours
└─ uEr      Software Version
```

8A

CoLo **Color Mode.**

Press the **MENU** button up to when the **CoLo** is shown on the display. Pressing **ENTER** button and the display will blink. Use **DOWN** and **UP** button to select the **Co 1** (color 1) or … or **Co 16** (show 16) or **NAnu** (manual setting). Once select, press the **ENTER** button to confirm, if you select **NAnu** (manual setting), you can press **DOWN** and **UP** button to select **rEd** (red) or **GrEn** (green) or **bLuE** (blue), press **ENTER** button to confirm, then use **DOWN** and **UP** button to adjust the value (0-255) and press **ENTER** button to store, automatically return to the main functions without any change after 8 seconds. To go back to the functions without any change press the **MENU** button again.

di NN **Dimmer Mode**

Press the MENU button to show **di NN** on the display. Press the ENTER button and the display will blink. Use the **DOWN** and **UP** buttons to adjust the value from 0%-100% of the unit. Once selected, press the **ENTER** button to store. To return to the main menu without any changes press the **MENU** button. Hold and press the **MENU** button about one second or wait for one minute to exit the menu mode.

ShoU **Show Mode**

Press the **MENU** button up to when the **ShoU** is shown on the display. Pressing **ENTER** button and the display will blink. Use **DOWN** and **UP** button to select the **Sh 0** (auto show) or **Sh 1** (show 1) or **Sh 2** (show 2) or … **Sh 12** (show 12). Once the show has been selected, press the **ENTER** button to confirm, if you select **Sh 1** (show 1) or **Sh 2** (show 2) or … **Sh 12** (show 12), you can press **DOWN** and **UP** button to select **SP 1** (slowest) or … **SP 8** (fastest), press **ENTER** button to store or automatically return to the main functions without any change after 8 seconds. To go back to the functions without any change press the **MENU** button again.

ChaS **Chase Mode**

Press the **MENU** button up to when the **ChaS** is shown on the display. Pressing **ENTER**

button and the display will blink. Use **DOWN** and **UP** button to select the `Ch 1` (chase 1) or … or `Ch 16` (chase 16) or `Fade` (fade). Once the chase has been selected, press the **ENTER** button to confirm, then press **DOWN** and **UP** button to select `SP 1` (slowest) or … `SP 8` (fastest), press **ENTER** button to store or automatically return to the main functions without any change after 8 seconds. To go back to the functions without any change press the **MENU** button again.

`SOUn` Sound Mode

Press the **MENU** button up to when the `SOUn` is shown on the display. Pressing **ENTER** button and the display will blink. Use **DOWN** and **UP** button to select the `on` (sound control on) or `oFF` (sound control off). Once the mode has been selected, press the **ENTER** button to setup or automatically return to the main functions without any change after 8 seconds. To go back to the functions without any change press the **MENU** button again.

`SEnS` Sound Sensitivity

Press the **MENU** button to show `SEnS` on the display. Press the **ENTER** button and the display will blink. Use the **DOWN** and **UP** buttons to change the sound sensitivity (0-100) of the unit. Once selected, press the **ENTER** button to store. To return to the main menu without any changes press the **MENU** button. Hold and press the **MENU** button about one second or wait for one minute to exit the menu mode.

`Addr` DMX 512 Address Setting

Press the MENU button up to when the `Addr` is shown on the display. Press ENTER button and the display will blink. Use DOWN and UP button to change the DMX512 Address (1-512) or select `Auto`(auto setting DMX512 address). Once selected, press the **ENTER** button to store or automatically return to the main functions without any changes after 8 seconds. To go back to the functions without any change press the **MENU** button again.

⌷ʜⁿⓓ Channel mode

Press the **MENU** button up to when the ⌷ʜⁿⓓ is shown on the display. Pressing the **ENTER** button and the display will blink. Use the **DOWN** and **UP** button to select the 𝖭od1 (4 channel mode) or 𝖭od2 (4 channel mode) or 𝖭od3 (4 channel mode) or 𝖭od4 (4 channel mode) or 𝖭od5 (6 channel mode). Once the mode has been selected, press the **ENTER** button to setup or automatically return to the main functions without any change after 8 seconds. To go back to the functions without any change press the **MENU** button again.
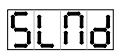
SLⁿⓓ Slave Mode

Press the **MENU** button up to when the SLⁿⓓ is shown on the display. Pressing **ENTER** button and the display will blink. Use **DOWN** and **UP** button to select the 𝖭a5t (Mater) or SL 1 (normal) or … or SL 16 (16 light show) mode. Once the mode has been selected, press the **ENTER** button to setup or automatically return to the main functions without any change after 8 seconds. To go back to the functions without any change press the **MENU** button again.

bⱥLⱥ White balance

Press the **MENU** button up to when the bⱥLⱥ is shown on the display. Pressing **ENTER** button and the display will blink. Use **DOWN** and **UP** button to select the rⱥd (red) or ᴳrⱥn (green) or bLuⱥ (blue), press **ENTER** button to confirm, then use **DOWN** and **UP** button to adjust the value (125-255) and press **ENTER** button to store, automatically return to the main functions without any change after 8 seconds. To go back to the functions without any change press the **MENU** button again.

Udrt WDMX Settings

The Wireless Transmitter is very important for WDMX settings. At first, you must connect the wireless transmitter to the unit.

Press the **MENU** button up to when the Udrt is blinking on the display. Immediately after you have pressed the **ENTER** button, then press the **FUNCTION** button on the Wireless Transmitter,

the indicator on the unit will blink which means the unit is connecting the Wireless Transmitter, the indicator stops blinking after 6 seconds, the unit has connected the DMX transmitter successfully. Now both the LED on the unit and the status LED on the Wireless Transmitter will begin to flash, indicating that they are both searching for a signal. If the signal connection is successful, the status LED on the transmitter will grow green, and unit will display the DMX address that you set before.

To go back to the functions without any change press the **MENU** button again. Hold and press the **MENU** button about one second or wait for 8 seconds to exit the menu mode.

NOTE: Once the connection is successful, the wireless connection will be available at all times. To clear/stop the signal, enter the `Udrt` **menu again and press ENTER.**

`batt`   **Battery Status**

Press the **MENU** button up to when the `batt` is blinking on the display. Pressing **ENTER** button and the display will show the status of battery of the unit. To go back to the functions press the **MENU** button again.

`bLnd` **Blackout Mode**

Press the **MENU** button up to when the `bLnd` is shown on the display. Pressing **ENTER** button and the display will blink. Use **DOWN** and **UP** button to select the `no` (no blackout) or `yes` (yes blackout) mode. Once the mode has been selected, press the **ENTER** button to setup or automatically return to the main functions without any change after 8 seconds. To go back to the functions without any change press the **MENU** button again.
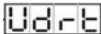
`Led` **LED Display**

Press the **MENU** button up to when the `Led` is shown on the display. Pressing **ENTER** button and the display will blink. Use **DOWN** and **UP** button to select the `on` (Led on) or `oFF` (Led off) mode. Once the mode has been selected, press the **ENTER** button to setup or automatically return to the main functions without any change after 8 seconds. To go back to the functions without any change press the **MENU** button again.

dISP Display Inversion

It is good for you to install the unit on the floor or under ceiling. Press the **MENU** button up to when the **dISP** is shown on the display. Pressing **ENTER** button and the display will blink. Use **DOWN** and **UP** button to select the **dSIP** (display inversion) or **dISP** (display normal). Once select, press the **ENTER** button to setup or automatically return to the main functions without any change after 8 seconds. To go back to the functions without any change press the **MENU** button again.

tEMP Fixture Temperature

Press the **MENU** button up to when the **tEMP** is blinking on the display. Pressing **ENTER** button and the display will show the temperature of the unit. To go back to the functions press the **MENU** button again.

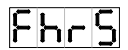**FhrS** Fixture Hours

Press the **MENU** button up to when the **FhrS** is blinking on the display. Pressing **ENTER** button and the display will show the number of working hours of the unit. To go back to the functions press the **MENU** button again.
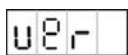
uEr Software version

Press the **MENU** button up to when the **uEr** is blinking on the display. Pressing **ENTER** button and the display will show the version of software of the unit. To go back to the functions press the **MENU** button again.

5. How to Control the Unit

There are three ways to control the fixture

    A. Universal DMX controller

    B. Master/Slave operation

    C. Easy controller (by CA-8)

5.1 Universal DMX controller

The fixture can be set the DMX address remotely by universal DMX controller. First, you need to programming two scenes into a chase, and then link the fixtures to the universal DMX controller. When you run the chase, all the fixtures of the chain will be set the series DMX address automatically. The fixture uses four channels. Please refer to the following diagram to set the address for the first four units.

| 1 | 5 | 9 | 13 |

5.2 Master/Slave operation

The fixture will allow you to link 16 fixtures together and operate without a controller. In Master/Slave mode, the first fixture will control the others to give an automatic, sound activated, synchronized light show. This function is good when you want an instant show. The first fixture it's DMX input cable will have nothing connect it, and the other fixtures will be set in slave mode automatically. Their DMX input cables connect the last fixture DMX output cable (daisy chain). Any fixture can act as a Master or as a Slave

5.3 Easy Controller (by CA-8)

The easy remote control is used only in master/slave mode. There is a terminator for connect the easy controller inside the fixture. By connecting the cable into DMX IN waterproof cable entry gland to the CA-8 terminator of the first fixture, you will find that the remote control on the first fixture will control all the other fixtures for Stand by, Function and Mode functions.
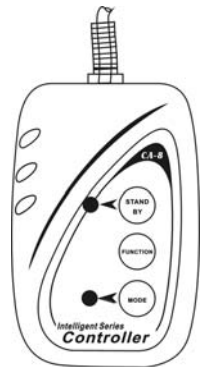
Blackout	To blackout all the fixture			
Function	Strobe 1. Synchronous strobe in white color 2. The same color chase 3. Different color strobe	Select Color Color 1~16 or manual setting color	Select show Select Show1~12	Select Chase Select Chase1~16 or fade
Mode	Sound 1 (LED OFF)	Manual (LED ON)	Sound 2 (LED slow blinking)	Chase (LED fast blinking)

6. DMX 512 Configuration

Mode 1&2&3&4&5：

Mode 1

Ch1	Ch2	Ch3	Ch4
Red	Green	Blue	Dimmer/Strobe

Ch1 Red: 255 — 100%, 0 — 0%
Ch2 Green: 255 — 100%, 0 — 0%
Ch3 Blue: 255 — 100%, 0 — 0%
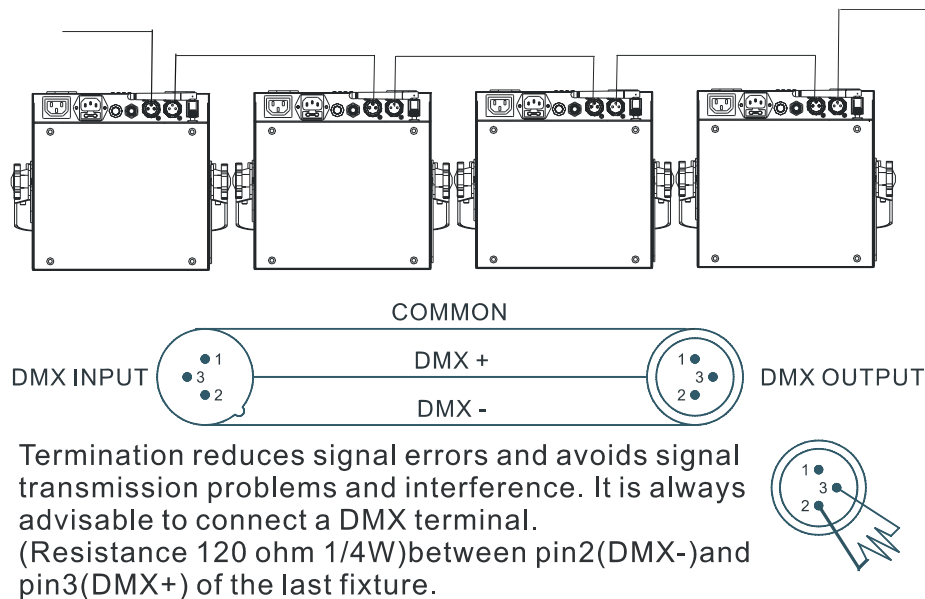Ch4 Dimmer/Strobe:
- 248-255 OPEN
- 201-247 ⚡⚡ / ⚡⚡⚡ / ⚡
- 191-200 SOUND
- 8-190
- 0-7 OFF

Mode 2

Ch1	Ch2	Ch3	Ch4
Red	Green	Blue	Dimmer

Ch1 Red: 255 — 100%, 0 — 0%
Ch2 Green: 255 — 100%, 0 — 0%
Ch3 Blue: 255 — 100%, 0 — 0%
Ch4 Dimmer: 255 — 100%, 0 — 0%

Mode 3

Ch1	Ch2	Ch3	Ch4
Red	Green	Blue	Dimmer/Strobe

Ch1 Red: 255 — 100%, 0 — 0%
Ch2 Green: 255 — 100%, 0 — 0%
Ch3 Blue: 255 — 100%, 0 — 0%
Ch4 Dimmer/Strobe:
- 161-255 ⚡⚡⚡ / ⚡⚡ / ⚡
- 0-160

Mode 4

Ch1	Ch2	Ch3	Ch4
Red	Green	Blue	Dimmer/Strobe

Ch1 Red: 255 — 100%, 0 — 0%
Ch2 Green: 255 — 100%, 0 — 0%
Ch3 Blue: 255 — 100%, 0 — 0%
Ch4 Dimmer/Strobe:
- 200-255 Color Macro
- 128-199 ⚡⚡⚡ / ⚡⚡ / ⚡
- 0-127

Mode 5

Ch1	Ch2	Ch3	Ch4	Ch5	Ch6
Red	Green	Blue	Color	Dimmer	Strobe

Ch1 Red: 255 — 100%, 0 — 0%
Ch2 Green: 255 — 100%, 0 — 0%
Ch3 Blue: 255 — 100%, 0 — 0%

Ch4 Color:
- 248-255 Color 16
- 232-247 Color 15
- 216-231 Color 14
- 200-215 Color 13
- 184-199 Color 12
- 168-183 Color 11
- 152-167 Color 10
- 136-151 Color 9
- 120-135 Color 8
- 104-119 Color 7
- 088-103 Color 6
- 072-087 Color 5
- 056-071 Color 4
- 040-055 Color 3
- 024-039 Color 2
- 008-023 Color 1
- 000-007 Off

Ch5 Dimmer: 255 — 100%, 0 — 0%

Ch6 Strobe:
- 248-255 Open
- 240-247 Random strobe
- 232-239 Open
- 191-231 Slow Close Fast Open
- 182-190 Open
- 140-181 Slow Open Fast Close
- 132-139 Open
- 016-131 ⚡⚡⚡ / ⚡⚡ / ⚡
- 008-015 Open
- 000-007 Off

15A

7. DMX 512 Connection

The DMX512 is widely used in intelligent lighting control, with a maximum of 512 channels.

Termination reduces signal errors and avoids 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. If you using a controller with 5 pins DMX output, you need to use a 5 to 3 pin adapter-cable.

2. Connect the fixture together in a "daisy chain" by XLR plug cable from the output of the fixture to the input of the next fixture. The cable cannot be branched or split to a "Y" cable. 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. At last fixture, the DMX cable has to be terminated with a terminator to reduce signal errors. 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 fixture.

5. Each lighting fixture needs to have an address set to receive the data sent by the controller. The address number is between 0-511 (usually 0 & 1 are equal to 1).

6. 3 pin XLR connectors are more popular than 5 pin XLR.

   3 pin XLR: Pin1: GND, Pin2: Negative signal (-), Pin3: Positive signal (+)

   5 pin XLR: Pin1: GND, Pin2: Negative signal (-), Pin3: Positive signal (+)

          Pin4/5: Not Used.

8. Troubleshooting

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

A. The fixture does not work, no light

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

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 fixture 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. Some fixtures don't respond to the easy controller

1. You may have a break in the DMX cabling. Check the LED for the response of the master/ slave mode signal.
2. Wrong DMX address in the fixture. Set the proper address.

D. No response to the sound

1. Make sure the fixture does not receive DMX signal.
2. Check microphone to see if it is good by tapping the microphone.

E. 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.

9. Cleaning And Maintenance

The cleaning of internal 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 fixture'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.

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 2004/108/EC.

EN55103-1: 2009 ; EN55103-2: 2009;
EN61000-3-2: 2006 + A1:2009 + A2:2009; EN61000-3-3: 2008.

&

Harmonized Standard

EN 60598-1:2008 + All:2009; 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