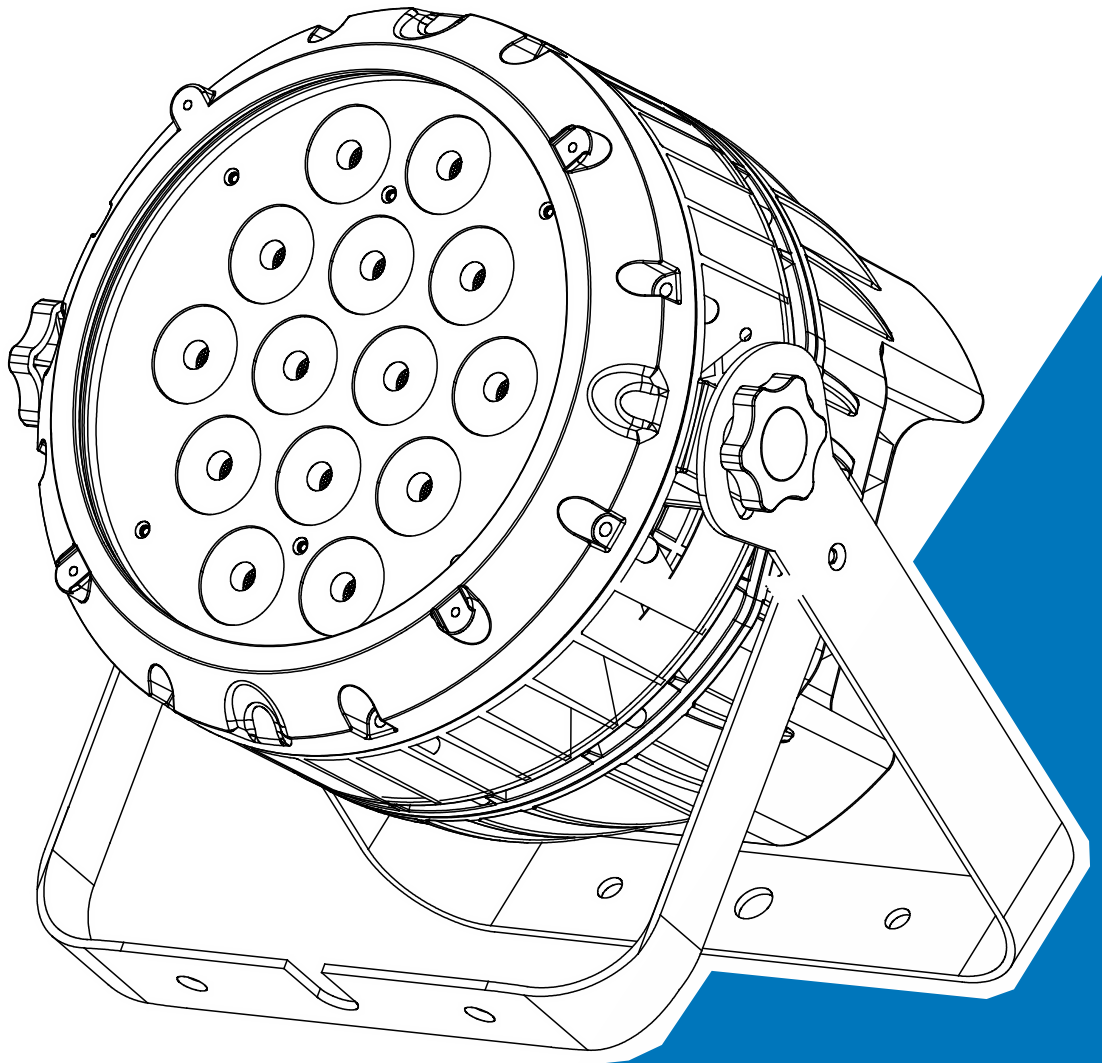




COOLIE 14FC



User Manual

Please read the instruction carefully before use



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1. Safety Instructions



WARNING

Please read the instruction carefully which includes important information about the installation, usage and maintenance.

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

Important:

Damages caused by the disregard of this user manual are not subject to warranty. The dealer will not accept liability for any resulting defects or problems.

- Unpack and check carefully to ensure that there is no transportation damage before using the unit.
- This product is suitable for wet locations. Do not immerse in water.
- DO install and operate by qualified operator.
- DO NOT allow children to operate the fixture.
- Use safety chain when fixing the unit. Handle the unit by carrying its base instead of head only.
- The unit must be installed in a location with adequate ventilation, at least 50cm from adjacent surfaces.
- Be sure that no ventilation slots is blocked, otherwise the unit will be overheated.
- Before operation, ensure that you are connecting this product to the proper voltage in accordance with the specifications in this manual or on the product's specification label.
- It's important to ground the yellow/green conductor to earth in order to avoid electric shock.
- Minimum ambient temperature TA: 0°C. Maximum ambient temperature TA: 40°C. Do not operate this product at a lower or higher temperature.
- DO NOT connect the device to any dimmer pack.
- Keep flammable materials away from the fixture while operating to avoid fire hazard.
- Make sure the power cord is not crimped or damaged; replace it immediately if damaged.
- Avoid any flammable liquids, water or metal from entering the unit. Once it happens, cut off the mains power immediately.

- DO NOT operate in a dirty or dusty environment. DO clean the fixture regularly.
- DO NOT touch any wire during operation as there might be a hazard of electric shock.
- Avoid entanglement of the power cord with other wires.
- In the event of serious operating problem, stop using the unit immediately.
- Never turn on and off the unit time after time.
- The housing, the lenses, or the ultraviolet filter must be replaced if they are visibly damaged.
- DO NOT open the housing as there are no user serviceable parts inside.
- DO NOT attempt to operate this unit if it becomes damaged. DO NOT attempt any repairs yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center if needed.
- Disconnect this product from its power source before servicing.
- DO use the original packaging if the device is to be transported.
- Avoid direct eye exposure to the light source while the product is on.
- DO NOT operate this product if you see damage on the housing, shields, or cables. Have the damaged parts replaced by an authorized technician at once.

Installation:

The fixture should be fixed on the clamp. Always ensure that the unit is firmly fixed to avoid vibration and slipping off during operation. Ensure that the trussing or area of installation must be able to hold 10 times the weight without any deformation. Always install a safety cable that can hold at least 12 times the weight of the fixture when installing.

DO install and operate by qualified operator. It must be installed in a place where there is out of the reach of people.

2. Technical Specifications

Power Voltage:

100-240V~ 50/60Hz

Power Consumption:

165W

Light Source:

14x15W RGBW LED

Beam Angle:

13.5°

Spot Angle:

25.6°

Control:

DMX Channel: 4/5/7 Channel

Control Mode: DMX512, RDM, Primary/Secondary

Firmware upgrade via DMX link

Construction:

Display: LED display

Data In/Out: 3-pin XLR in/out

Power In/Out: Power Cord in/out

Protection Rating: IP66

Features:

Outstanding color mixing effect

Preset program in stand-alone mode

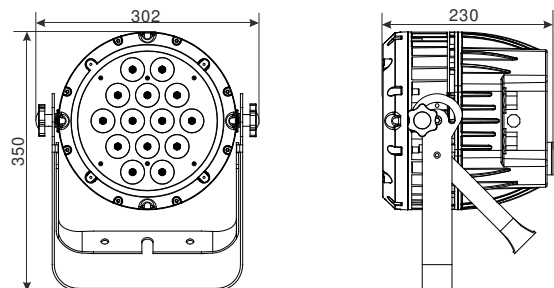
4 dimming curves, smooth dimming from 0~100%

Outstanding strobe effect with variable speed

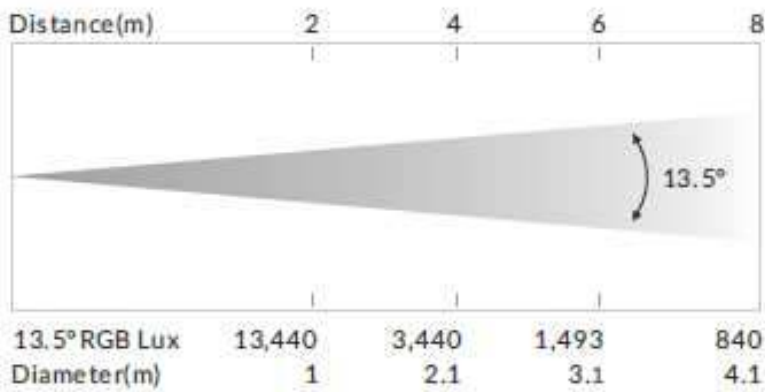
Dimension/Weight:

302x230x350mm, 9.1kgs

11.9"x9.1"x13.8" in, 20.1lbs

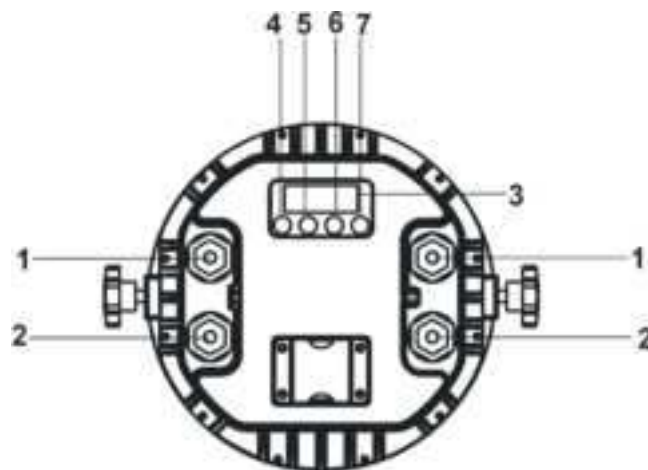


Photometric Diagram:



3. How To Set The Fixture

3.1 Control Panel



1: Power: Water proof connectors for power input/output

2: DMX IN/OUT:

Water proof connectors for DMX512 operation, 3-pin XLR cable to link the units together

3: Display: To show the menu and the selected functions

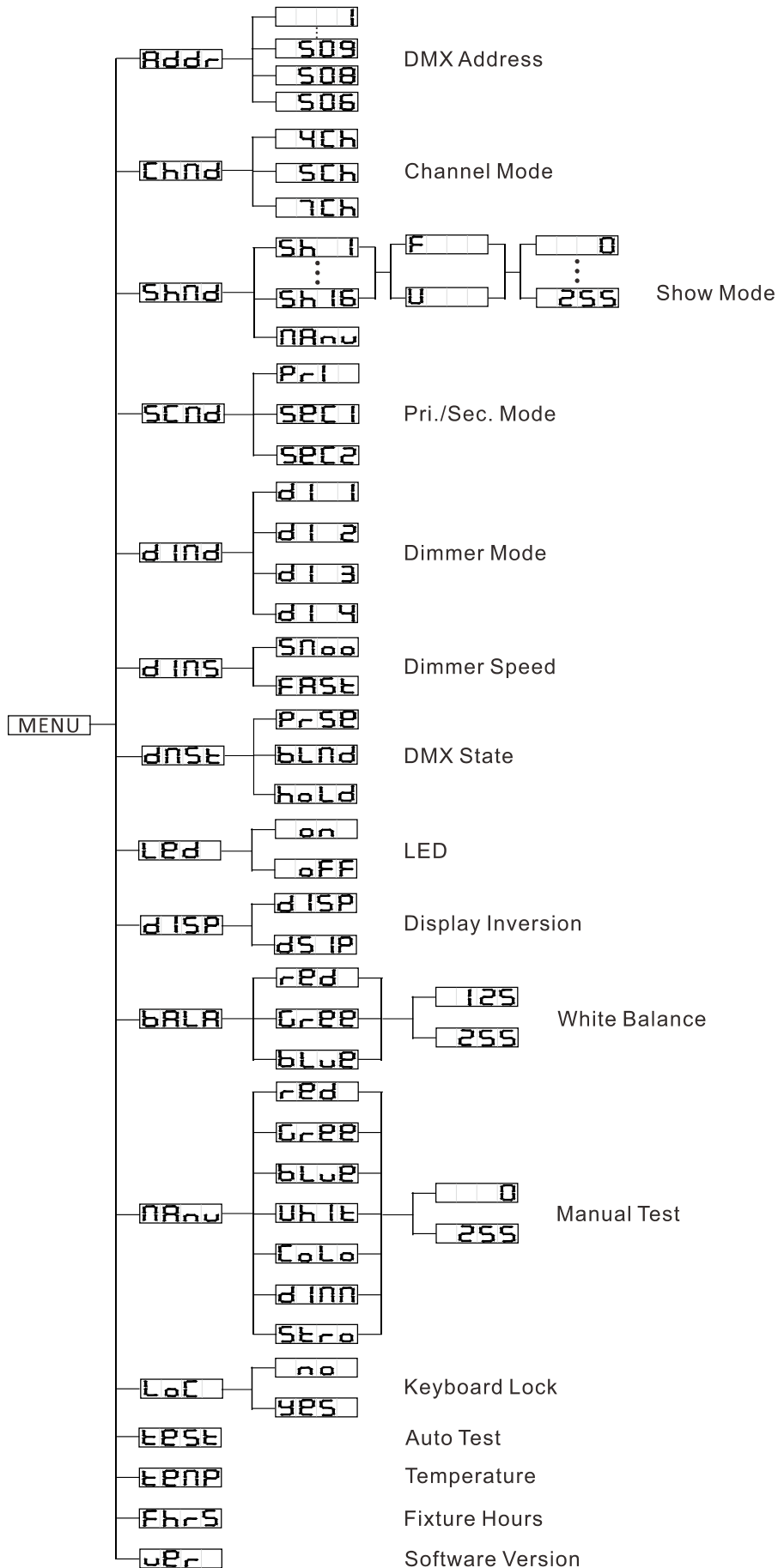
Button:

| | |
|-----------------|--|
| 4. MENU | To select the programming functions |
| 5. DOWN | To go forward in the selected functions |
| 6. UP | To go backward in the selected functions |
| 7. ENTER | To confirm the selected functions |

3.2. Main Functions

Turn on the unit, press the **MENU** button into menu mode, and press the **UP/DOWN** button until the required function is shown on the monitor. Select the function by the **ENTER** button. Use the **UP/DOWN** button to choose the submenu, press the **ENTER** button to store and automatically return to the last menu. Press the **MENU** button or let the unit idle 30 seconds to exit menu mode. The main functions are shown below:

Once you set **Loc** to **005**, after running in show mode for 5 minutes without any change or restarting the unit, the key board become locked. Press **ENTER** button to enable the menu, the display will show **000**, press **UP** and **DOWN** button until it shows **123**, then press **ENTER** to unlock.



Addr DMX Address

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 DMX 512 address. Once the address has been selected, press **ENTER** button to setup or automatically exit menu mode without any change after 30 seconds. Back to the previous functions without any change press **MENU** button.

Chnd Channel Mode

Press the **MENU** button up to when the **Chnd** is shown on the display. Press **ENTER** button and the display will blink. Use **DOWN** and **UP** button to select the **4Ch** (4 channels), **5Ch** (5 channels) or **7Ch** (7 channels). Once select, press **ENTER** button to setup or automatically exit menu mode without any change after 30 seconds. To go back to the functions without any change press the **MENU** button.

Shnd Show Mode

Press the **MENU** button up to when the **Shnd** is shown on the display. Press **ENTER** button and the display will blink. Use **DOWN** and **UP** button to select the **Sh 1** (show 1) ..**Sh 16** (show 16) or **MANU** (Manual). After select the show mode, use **DOWN** and **UP** button to adjust the value for fade mode and speed mode. Once select, press **ENTER** button to store or automatically return to the main functions without any change after 30 seconds. To go back to the previous functions without any change press the **MENU** button.

SCnd Pri./Sec. Mode

Press the **MENU** button up to when the **SCnd** is shown on the display. Press **ENTER** button and the display will blink. Use **DOWN** and **UP** button to select the **Pr1** (Primary), **SEC1** (Secondary 1) or **SEC2** (Secondary 2). Once select, press **ENTER** button to store or automatically return to the main functions without any change after 30 seconds. To go back to the previous functions without any change press the **MENU** button.

d ind Dimmer Mode

Press the **MENU** button up to when the **d ind** is shown on the display. Press **ENTER** button and the display will blink. Use **DOWN** and **UP** button to select the **d 1 1 1** (Dimmer Curve 1) ... **d 1 4** (Dimmer Curve 4). Once select, press **ENTER** button to store or automatically return to the main functions without any change after 30 seconds. To go back to the previous functions without any change press the **MENU** button.

d ins Dimmer Speed

Press the **MENU** button up to when the **d ins** is shown on the display. Press **ENTER** button and the display will blink. Use **DOWN** and **UP** button to select the **Smooth** (Smooth), **FAST** (Fast). Once select, press **ENTER** button to store or automatically return to the main functions without any change after 30 seconds. To go back to the previous functions without any change press the **MENU** button.

d nse DMX State

Press the **MENU** button up to when the **d nse** is shown on the display. Press **ENTER** button and the display will blink. Use **DOWN** and **UP** button to select the **PrSE** (Primary/Secondary), **BLnd** (Blackout Mode) or **hold** (Hold). Once select, press **ENTER** button to store or automatically return to the main functions without any change after 30 seconds. To go back to the previous functions without any change press the **MENU** button.

LED LED

Press the **MENU** button up to when the **LED** is shown on the display. Press **ENTER** button and the display will blink. Use **DOWN** and **UP** button to select the **on** (On) or **oFF** (Off). Once select, press **ENTER** button to store or automatically return to the main functions without any change after 30 seconds. To go back to the previous functions without any change press the **MENU** button.

DISP Display

Press the **MENU** button up to when the **DISP** is shown on the display. Press **ENTER** button and the display will blink. Use **DOWN** and **UP** button to select the **DISP** (Normal) or **DIS IP** (Display Inversion). Once select, press **ENTER** button to store or automatically return to the main functions without any change after 30 seconds. To go back to the previous functions without any change press the **MENU** button.

BALB White Balance

Press the **MENU** button up to when the **BALB** is showing on the display. Press **ENTER** button and the display will blink. Use **DOWN** and **UP** button to select the **red** (Red), **GrEE** (Green) or **BLuE** (Blue) mode. Once the mode has been selected, press the **DOWN** and **Up** button to select the value from 125 to 255, press the **ENTER** button to setup or automatically return to the main functions without any change after 30 seconds. To go back to the previous functions without any change press the **MENU** button.

MANU Manual Test

Press the **MENU** button up to when the **MANU** is showing on the display. Press **ENTER** button and the display will blink. Use **DOWN** and **UP** button to select the **red** (Red), **GrEE** (Green), or **BLuE** (Blue), **WHIT** (White), **CoLo** (Color), **dIMM** (Dimmer) or **Stro** (Strobe) mode. Once the mode has been selected, press the **DOWN** and **Up** button to select the value from 0 to 255, press the **ENTER** button to setup or automatically return to the main functions without any change after 30 seconds. To go back to the previous functions without any change press the **MENU** button.

Loc Key Board Lock

Press the **MENU** button up to when the **Loc** is showing on the display. Press **ENTER** button and the display will blink. Use **DOWN** and **UP** button to select the **no** (Key board lock On) or **YES** (Key board lock Off). Once select, press the **ENTER** button to setup or automatically return to the main functions without any change after 30 seconds. Back to the previous functions press **MENU** button.

EESE Auto Test

Press the **MENU** button up to when the **EESE** is blinking on the display. Press **ENTER** button and the unit will run self-test by built-in program. To go back to the functions press the **MENU** button again.

EPNP Temperature

Press the **MENU** button up to when the **EPNP** is blinking on the display. Press **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. Press **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.

VER Software version

Press the **MENU** button up to when the **VER** is blinking on the display. Press **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.

RDM FUNCTIONS

Select the MANUFACTURER menu to display the manufacturer of the fixture.

Select the SOFTWARE VERSION menu and the program version number of the fixture will be displayed.

Select the DMX START ADDRESS menu to change the DMX 512 address (001-512).

Select the DEVICE MODEL DESCRIPTION menu to display the model of the fixture.

Select the DEVICE LABEL menu to change the model of the fixture.

Select the DMX PERSONALITY menu to set the channel mode of the fixture (4/5/7 channel).

Select the DMX PERSONALITY DESCRIPTION menu to display the current channel mode of the fixture.

Select the DEVICE HOURS menu to display the running time of the fixture.

4. How To Control The Unit

You can operate the unit in two ways:

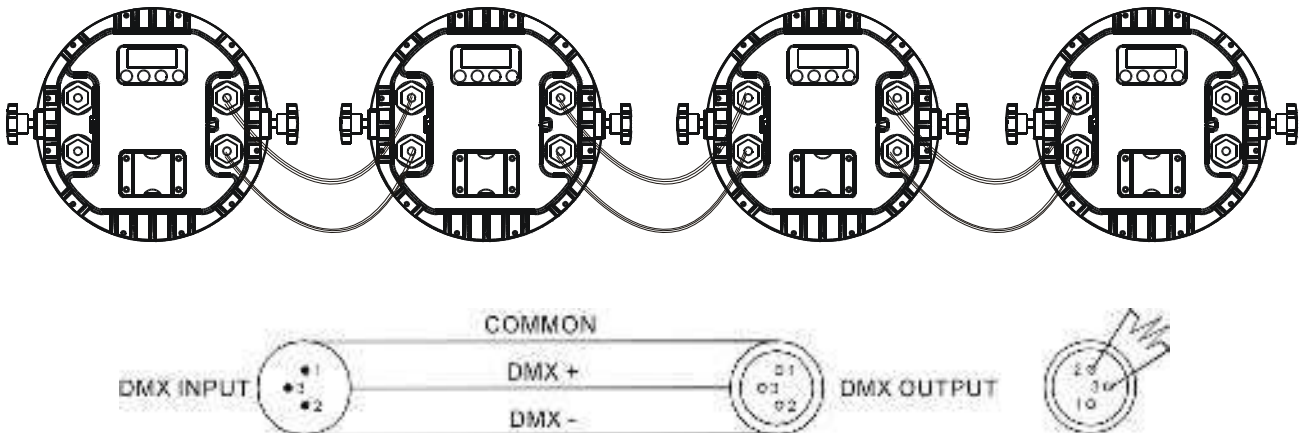
1. By primary/secondary built-in preprogram function
2. By universal DMX controller

4.1 Primary/Secondary Built-in Preprogram Function

By linking the units in primary/secondary connection, the first unit will control the other units to give an automatic, sound activated, synchronized light show. This function is good when you want an instant show. You have to select **Sh 1** (show 1) ... **Sh 4** (show 4) for the first unit. Its DMX input jack will have nothing plugged into. The other units will be secondary mode automatically.

4.2 Control By Universal DMX Controller

4.2.1 DMX512 Connection



1. At last unit, the DMX cable has to be terminated with a terminator. 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 unit.
2. Connect the unit together in a “daisy chain” by XLR plug cable from the output of the unit to the input of the next unit. The cable can only be used in series and cannot be connected in parallel. DMX 512 is a very high-speed signal. 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. Each lighting unit needs to have a DMX address to receive the data by the controller. The address number is between 1-512.
5. The end of the DMX 512 system should be terminated to reduce signal errors.
6. 3 pin XLR connectors are more popular than 5 pins XLR.
 - 3 pin XLR: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+)
 - 5 pin XLR: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+), Pin4, Pin5 not used.

4.2.2 Address Setting

If you use a universal DMX controller to control the units, you have to set DMX address from 1 to 512 so that the units can receive DMX signal.

Press the MENU button to enter menu mode, select **Addr**, press the ENTER button to confirm, the present address will be blinking on the display, use the UP/DOWN button to adjust the address from 001 to 512, press the ENTER button to store. Press the MENU button back to the last menu or let the unit idle 30 seconds to exit menu mode.

Please refer to the following diagram to address your DMX512 channel for the first 4 units.

| Channel mode | Unit 1 Address | Unit 2 Address | Unit 3 Address | Unit 4 Address |
|--------------|----------------|----------------|----------------|----------------|
| 4 channels | 1 | 5 | 9 | 13 |
| 5 channels | 1 | 6 | 11 | 16 |
| 7 channels | 1 | 8 | 15 | 22 |

4.2.3 DMX512 Configuration

Please control the fixture by referring to the configurations below

Attentions:

1. The unit will maintain the last condition until reset if you cut-off the DMX signal.
2. For the channel Function, keep the value for about 3 seconds, then the corresponding function will take into effect.

4 Channels Mode:

| Channel | Value | Function |
|---------|---------|-------------------------|
| 1 | 000-255 | RED 0%→100% |
| 2 | 000-255 | GREEN 0%→100% |
| 3 | 000-255 | BLUE 0%→100% |
| 4 | 000-255 | WHITE 0%→100% |
| | | |

5 Channels Mode:

| Channel | Value | Function |
|---------|---------|--------------------------|
| 1 | 000-255 | RED 0%→100% |
| 2 | 000-255 | GREEN 0%→100% |
| 3 | 000-255 | BLUE 0%→100% |
| 4 | 000-255 | WHITE 0%→100% |
| 5 | 000-255 | DIMMER 0%→100% |
| | | |

7 Channels Mode:

| Channel | Value | Function |
|---------|---------|-------------------------|
| 1 | 000-255 | RED 0%→100% |
| 2 | 000-255 | GREEN 0%→100% |
| 3 | 000-255 | BLUE 0%→100% |
| 4 | 000-255 | WHITE 0%→100% |
| 5 | | COLOR WHEEL |

| | | |
|---|--|---|
| | 000-007 008-015 016-023 024-031 232-239 240-247 248-254 255 | OFF PRESET COLOR 1 PRESET COLOR 2 PRESET COLOR 3 PRESET COLOR 30 PRESET COLOR 31 PRESET COLOR 32 OFF |
| 6 | 000-007 008-015 016-131 132-139 140-181 182-189 190-231 232-239 240-247 248-255 | STROBE OFF OPEN RANDOM FROM SLOW TO FAST OPEN FAST CLOSE SLOW OPEN OPEN FAST OPEN SLOW CLOSE OPEN RANDOM STROBE OPEN |
| 7 | 000-255 | DIMMER 0%→100% |
| | | |

5. Troubleshooting

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

A. The unit does not work and no light

1. Check the connected power.
2. Measure the voltage.
3. Check the power indicator to see whether it can be lit up or not.

B. Not responding to the DMX controller

1. Check whether the DMX connectors and the DMX cables are connected correctly.
2. Check whether the DMX address is correctly set.
3. If the intermittent DMX signal problem occurs, check whether the XLR socket and the signal cable are well connected.
4. Try it with another DMX controller.
5. Check whether the DMX cables run near or alongside to the high-voltage cables, which may damage or interfere with the signal circuit.

C. One of the channels is not working well

1. The stepper motor might be damaged or the cable connected to the PCB might be broken.
2. The motor's drive IC on the PCB might be out of condition.

6. Fixture Cleaning

It is absolutely essential that the fixture is kept clean to ensure the maximum light-output and allow the fixture to function reliably throughout its life. The fixture must be cleaned regularly to avoid dust, dirt and smoke-fluid residues building up on or within the fixture. The cleaning frequency depends on the application environment. Clean the fixture immediately if the dust enters it to avoid damage to the optical lens due to excessive dust.

- A soft lint-free cloth moistened with any good glass cleaning fluid is recommended, under no circumstances should solvents be used.
- Always dry the parts carefully.
- Clean the external optical lens at least every 20 days.

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