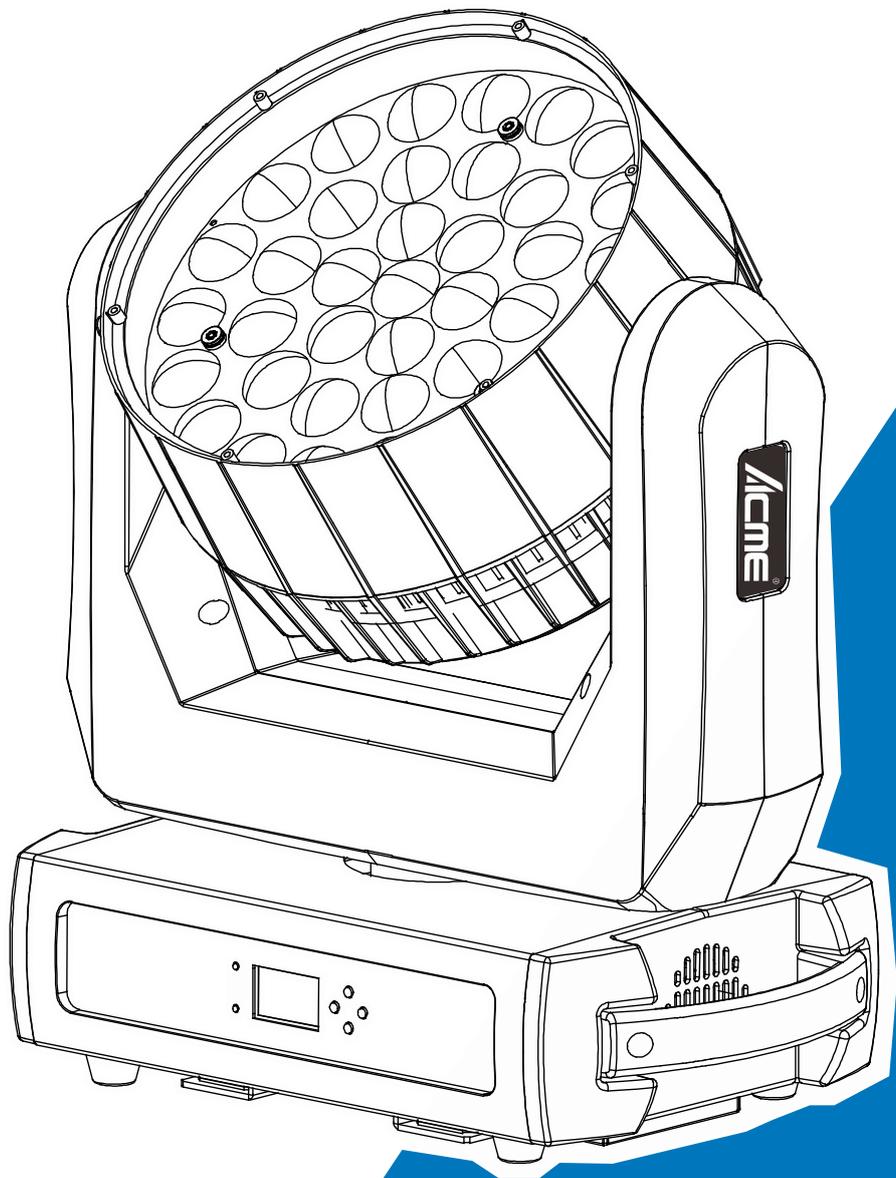


Acme®

ICARUS 620



User Manual

Please read the instruction carefully before use

CONTENTS

1. Safety Instructions	2
2. Technical Specifications	4
3. How To Set The Unit.....	5
3.1 Control Panel	5
3.2 Main Function.....	6
3.3 Home Position Adjustment	14
4. Control By Universal DMX Controller	14
4.1 DMX512 Connection	14
4.2 Address Setting	15
4.3 DMX512 Configuration.....	16
5. Troubleshooting.....	23
6. Fixture Cleaning	24

1. Safety Instructions



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

WARNING

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 for indoor use only. Use only in a dry location.
- 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.
- Unit's surface temperature may reach up to 75°C. DO NOT touch the housing bare-handed during its operation.
- 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.
- The minimum distance to objects/surface must be more than 1.5 meters.
- Disconnect mains power before fuse replacement or servicing.
- Replace fuse only with the same type.
- 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:

610W

Light Source:

37x20W RGBW LED

Zoom Range:

10°~60°

Movement:

Pan: 540°

Tilt: 270°

Pan/Tilt Resolution: 16bit

Dimming/Strobe:

0~100% smooth dimming, variable strobe speeds

Control:

DMX Channel: 14/26/15 Channels

Control Mode: DMX512, RDM

Firmware Upgrade: Update via DMX link

Construction:

Display: LCD display

Data In/Out: 3-pin & 5-pin XLR

Power In/Out: Power Connector in/out

Protection Rating: IP20

Features:

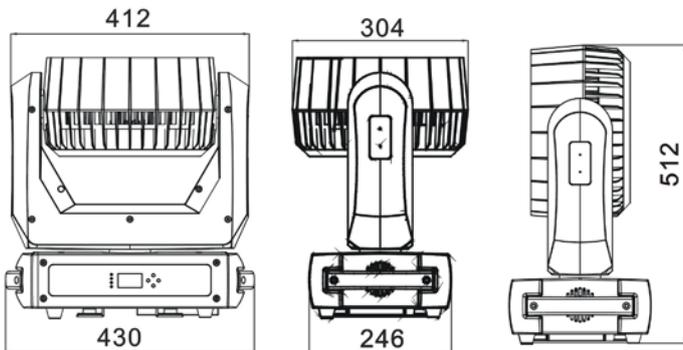
Electronic linear zoom system

Ring control, outstanding color macro effect

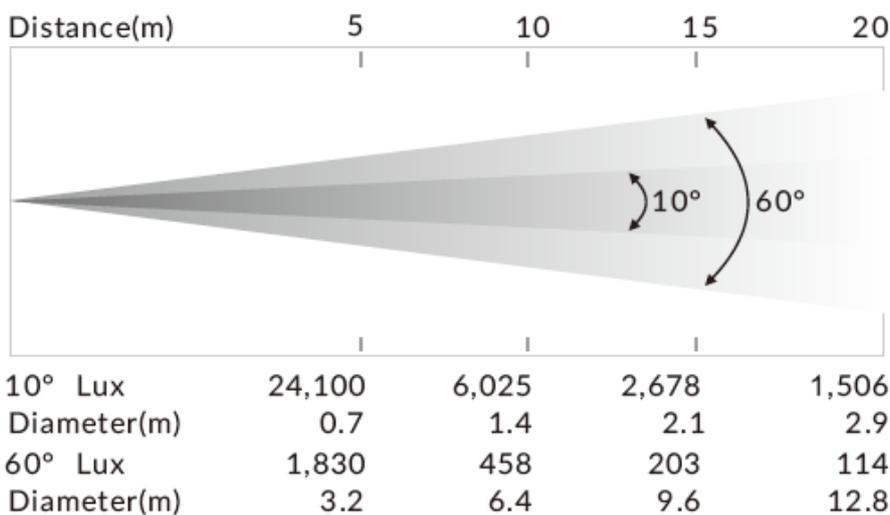
Dimension/Weight:

430x246x512mm, 19.5kgs

17"x9.7"x20" in, 42.9lbs

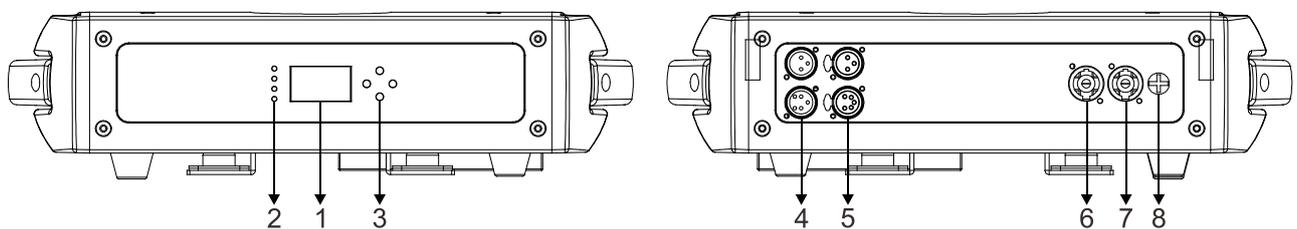


Photometric Diagram:



3. How To Set The Unit

3.1 Control Panel



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

2. LED:

POWER	ON	Power on
DMX	ON	DMX input present

3. Button:

MENU	To enter into move backward or leave the menu
▼ DOWN	To go forward in the selected functions
▲ UP	To go backward in the selected functions
ENTER	To confirm the selected functions

4. DMX IN:

For DMX512 link, use 3/5-pin XLR cable to link the unit and the DMX controller

5. DMX OUT:

For DMX512 link, use 3/5-pin XLR cable to link the next units

6. POWERCON IN:

To connect to supply power

7. POWERCON OUT:

To connect to the next fixture

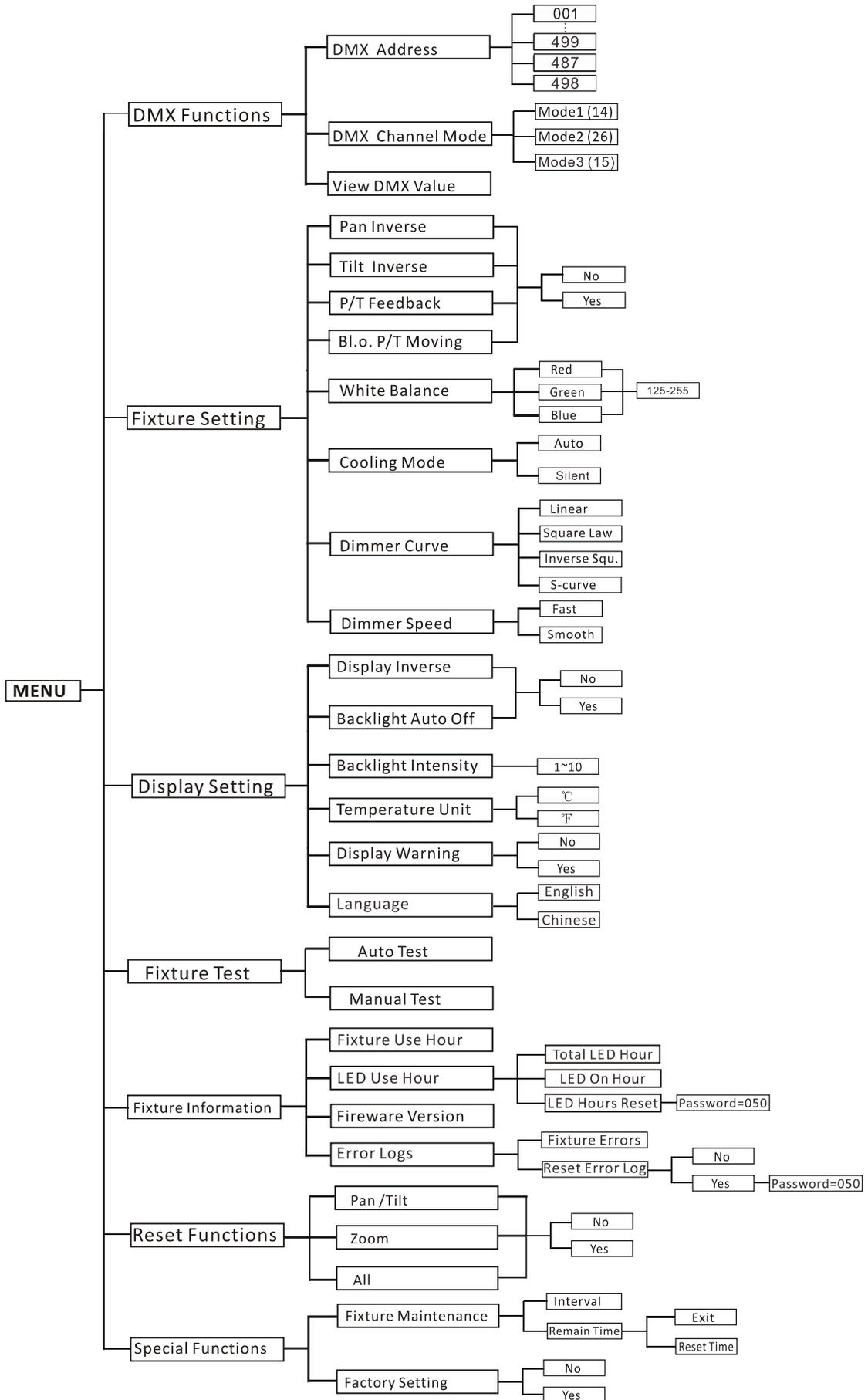
8. FUSE(T 10A):

Protects the unit from damage of over-voltage or short circuit

3.2 Main Function

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 pressing 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:



DMX Functions

To select **DMX Functions**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **DMX Address, DMX Channel Mode** or **View DMX Value**.

DMX Address

To select **DMX Address**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to adjust the address from 001 to 499/487/498, press the **ENTER** button to setup. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

DMX Channel Mode

To select **DMX Channel Mode**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **Mode1 (14), Mode2 (26)** or **Mode3 (15)**, press the **ENTER** button to setup. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

View DMX Value

To select **View DMX Value**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to view the DMX channel values. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

Fixture Setting

To select **Fixture Setting**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **Pan Inverse, Tilt Inverse, P/T Feedback, BL.O. P/T Moving, White Balance, Cooling Mode, Dimmer Curve** or **Dimmer Speed**.

Pan Inverse

To select **Pan Inverse**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **No** (normal) or **Yes** (pan inverse), press the **ENTER** button to setup. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

Tilt Inverse

To select **Tilt Inverse**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **No** (normal) or **Yes** (tilt inverse), press the **ENTER** button to setup. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

P/T Feedback

To select **P/T Feedback**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **No** (Pan or tilt's position will not feedback while out of step) or **Yes** (Feedback while pan/tilt out of step), press the **ENTER** button to setup. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

BL.O. P/T Moving

To select **BL.O. P/T Moving**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **No** (normal while pan/tilt moving) or **Yes** (blackout while pan/tilt moving), press the **ENTER** button to setup. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

White Balance

To select **White Balance**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **Red**, **Green** or **Blue**. Once selected, press the **ENTER** button to confirm, and use the **UP/DOWN** button to adjust the value from **125** to **255**, press the **ENTER** button to setup. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

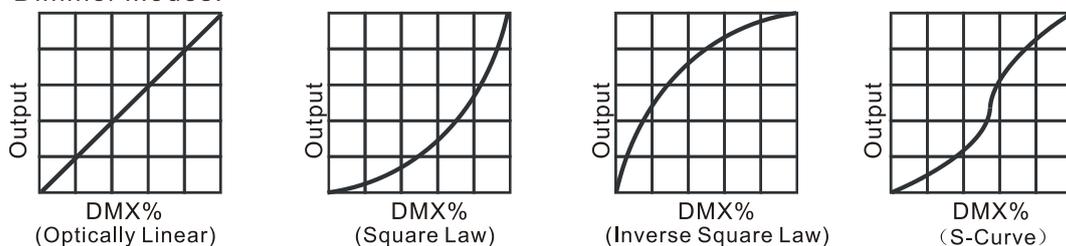
Cooling Mode

To select **Cooling Mode**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **Auto** or **Silent**. Once selected, press the **ENTER** button to setup. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

Dimmer Curve

To select **Dimmer Curve**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **Linear**, **Square Law**, **Inverse Squ.** or **S-Curve**. Once selected, 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.

Dimmer Modes:



Linear: The increase in light intensity appears to be linear as DMX value is increased.

Square Law: Light intensity control is finer at low levels and coarser at high levels.

Inverse Square Law: Light intensity control is coarser at low levels and finer at high levels.

S-Curve: Light intensity control is finer at low levels and high levels and coarser at medium levels.

Dimmer Speed

To select **Dimmer Speed**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **Fast** or **Smooth**. Once selected, press the **ENTER** button to setup. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

Display Setting

To select **Display Setting**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **Display Inverse**, **Backlight Auto Off**, **Backlight Intensity**, **Temperature Unit**, **Display Warning** or **Language**.

Display Inverse

To select **Display Inverse**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **No** (normal) or **Yes** (display inverse). Once selected, 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.

Backlight Auto Off

To select **Backlight Auto Off**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **No** (display always on) or **Yes** (display goes off 30 seconds after exiting menu mode). Once selected, press the **ENTER** button to confirm and store. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

Backlight Intensity

To select **Backlight Intensity**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to adjust the intensity from **1** (dark) to **10** (bright). Once selected, press the **ENTER** button to setup and store. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

Temperature Unit

To Select **Temperature Unit**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **°C** or **°F**, 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.

Display Warning

To select **Display Warning**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **No** (Normal) or **Yes** (display will show the error warning when the unit went wrong), 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.

Language

To select **Language**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **English** or **Chinese**, 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.

Fixture Test

To select **Fixture Test**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **Auto Test** or **Manual Test**

Auto Test

To select **Auto Test**, press the **ENTER** button to confirm, the unit will run built-in programs to automatically test pan, tilt, dimmer, shutter, spe. func. and etc. Press the **MENU** button back to the last menu or exit menu mode after auto test.

Manual Test

To select **Manual Test**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select channel, and adjust the channel value. Once selected, press the **ENTER** button to setup, the fixture will run as the channel value indicates. Press the **MENU** button back to the last menu or exit menu mode let the unit idle 30 seconds.

(All channels value will become 0 after exiting Manual Test menu)

Fixture Information

To select **Fixture Information**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **Fixture Use Hour**, **LED Use Hour**, **Firmware Version** or **Error Logs**.

Fixture Use Hour

To select **Fixture Use Hour**, press the **ENTER** button to confirm, fixture use time will show on the display. Press the **MENU** button to exit.

LED Use Hour

To select **LED Use Hour**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **Total LED Hour**, **LED On Hour** or **LED Hours Reset**, press the **ENTER** button to store. Use the **UP/DOWN** button to select **LED Hours Reset**, press the **ENTER** button to confirm, use the **UP/DOWN** button to set the password **050** to reset the LED hours, press the **ENTER** button to store. Press the **MENU** button back to the last menu or exit menu mode let the unit idle 30 seconds.

Firmware Version

To select **Firmware Version**, press the **ENTER** button to confirm, firmware version will show on the display. Press the **MENU** button to exit.

Error Logs

To select **Error Logs**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **Fixture Errors** or **Reset Error Log**, press the **ENTER** button to store. To select **Reset Error Log**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **No** or **Yes**, press the **ENTER** button to store. To select **Yes**, press the **ENTER** button to confirm, use the **UP/DOWN** button to set the password **050**, press the **ENTER** button to reset error log. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

Reset Functions

To select **Reset Functions**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **Pan/Tilt**, **Zoom** or **All**.

Pan/Tilt

To Select **Pan/Tilt**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **No** or **Yes** (the unit will run built-in program to reset pan and tilt to their home positions), press the **ENTER** button to store. Press the **MENU** button to exit menu mode.

Zoom

To select **Zoom**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **No** or **Yes** (the unit will run built-in program to reset zoom to its home positions), press the **ENTER** button to store. Press the **MENU** button to exit menu mode.

All

To select **All**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **No** or **Yes** (the unit will run built-in program to reset all motors to their home positions), press **ENTER** button to

store. Press **MENU** button to exit menu mode.

Special Functions

To select **Special Functions**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **Fixture Maintenance** or **Factory Setting**.

Fixture Maintenance

To select **Fixture Maintenance**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **Interval** or **Remain Time**. To select **Interval**, press the **ENTER** button to confirm, the interval time will be shown on the display. Press the **MENU** button to exit. To select **Remain Time**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **Exit** or **Reset Time**. Press the **ENTER** button to confirm, press the **MENU** button to exit.

Factory Setting

To select **Factory Setting**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **No** or **Yes** (the fixture will reset to factory settings and exit menu mode). Press the **ENTER** button to confirm, press the **MENU** button to exit.

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 (14/26/15 channel).

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

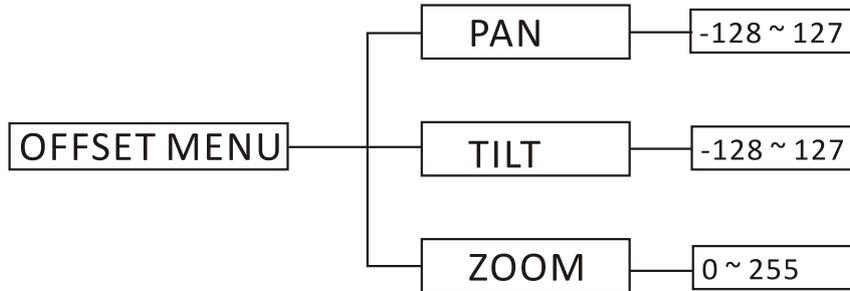
Select the **PAN INVERT** menu and the fixture will run the pan invert mode.

Select the **TILT INVERT** menu and the fixture will run the tilt invert mode.

Select the **RESET DEVICE** menu, the **WARM RESET/COLD RESET** option will be displayed. When **WARM RESET** is selected, the fixture will start a warm reset, and exit when **COLD RESET** is selected.

3.3 Home Position Adjustment

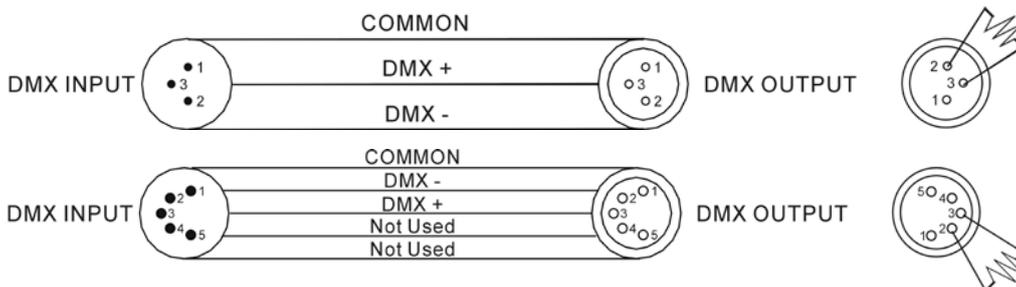
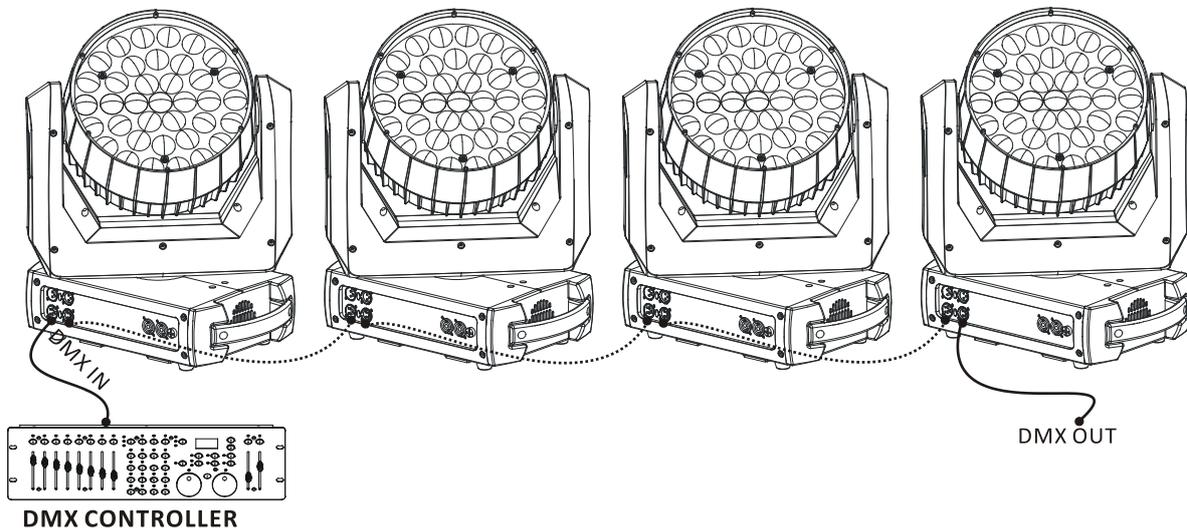
Press the MENU button into menu mode, then press the ENTER button for about 3 seconds into offset mode to adjust the home position. Select the function by pressing the ENTER button. Use the UP/DOWN button to choose the submenu, press the ENTER button to store and automatically return to the last menu. Press MENU button to exit.



Enter offset mode, select **Pan**, **Tilt** or **Zoom**, and press the **ENTER** button to confirm. Use the **DOWN/UP** button to adjust the home position of the Pan, Tilt or Zoom, once the position has been selected, press the **ENTER** button to store. Press the **MENU** button to exit.

4. Control By Universal DMX Controller

4.1 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 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 DMX Functions, press the ENTER button to confirm, use the UP/DOWN button to select DMX Address, press the ENTER button to confirm, the present address will blink in 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
14 channels	1	15	29	43
26 channels	1	27	53	79
15 channels	1	16	31	46

4.3 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.

14 Channels Mode:

CHANNEL	VALUE	FUNCTION
1	000-255	PAN 0°→540°
2	000-255	PAN FINE
3	000-255	TILT 0°→270°
4	000-255	TILT FINE
5	000-255	PAN/TILT SPEED Fast to Slow
6	000-009 010-014 015-255	SPECIAL FUNCTIONS No function Reset No function
7	000-255	DIMMER 0%→100%
8	000-019 020-024 025-064 065-069 070-084 085-089 090-104 105-109 110-124 125-129 130-144 145-149 150-164 165-169 170-184 185-189 190-204	SHUTTER Blackout Open Strobe 1: fast to slow Open Strobe 2: opening pulse, fast to slow Open Strobe 3: closing pulse, fast to slow Open Strobe 4: random strobe, fast to slow Open Strobe 5: random opening pulse, fast to slow Open Strobe 6: random closing pulse, fast to slow Open Strobe 7: burst pulse, fast to slow Open Strobe 8: random burst pulse, fast to slow

	205-209 210-224 225-229 230-244 245-255	Open Strobe 9: sine wave, fast to slow Open Strobe 10: burst, fast to slow Open
9	000-255	RED (0%→100%)
10	000-255	GREEN (0%→100%)
11	000-255	BLUE (0%→100%)
12	000-255	WHITE (0%→100%)
13	000-009 010-014 015-019 020-024 025-029 030-034 035-039 040-044 045-049 050-054 055-059 060-064 065-069 070-074 075-079 080-084 085-089 090-094 095-099 100-104 105-109 110-114 115-119 120-124 125-129 130-134 135-139 140-144 145-149 150-154 155-159 160-164 165-169 170-174	COLOR MACRO Open LEE 790-Moroccan Pink LEE 157-Pink LEE 332-Special Rose Pink LEE 328-Follies Pink LEE 345-Fuchsia Pink LEE 194-Surprise Pink LEE 181-Congo Blue LEE 071-Tokyo Blue LEE 120-Deep Blue LEE 079-Just Blue LEE 132-Medium Blue LEE 200-Double CT Blue LEE 161-State Blue LEE 201-Full CT Blue LEE 202-Half CT Blue LEE 117-Steel Blue LEE 353-Lighter Blue LEE 118-Light Blue LEE 116-Medium Blue Green LEE 124-Dark Green LEE 139-Primary Green LEE 089-Moss Green LEE 122-Fern Green LEE 738-JAS Green LEE 088-Lime Green LEE 100-Spring Yellow LEE 104-Deep Amber LEE 179-Chrome Orange LEE 105-Orange LEE 021-Gold Amber LEE 778-Millennium Gold LEE 135-Deep Gold Amber LEE 164-Flame Red

	175-179 180-201 202-207 208-229 230-234 235-239 240-244 245-249 250-255	Open Color Wheel Clockwise Rotation, fast to slow Stop (this will stop wherever the color is at the time) Color Wheel Counter-Clockwise Rotation, slow to fast Open Random Color, Fast Random Color, Medium Random Color, Slow Open
14	000-255	ZOOM 60°→10°

26 Channels Mode:

CHANNEL	VALUE	FUNCTION
1	000-255	PAN 0°→540°
2	000-255	PAN FINE
3	000-255	TILT 0°→270°
4	000-255	TILT FINE
5	000-255	PAN/TILT SPEED Fast to Slow
6	000-255	ZOOM 60°→10°
7	000-009 010-014 015-255	SPECIAL FUNCTIONS No function Reset No function
8	000-255	DIMMER 0%~100%
9	000-019 020-024 025-064 065-069 070-084 085-089 090-104 105-109 110-124 125-129	SHUTTER Blackout Open Strobe 1: fast to slow Open Strobe 2: opening pulse, fast to slow Open Strobe 3: closing pulse, fast to slow Open Strobe 4: random strobe, fast to slow Open

	130-144 145-149 150-164 165-169 170-184 185-189 190-204 205-209 210-224 225-229 230-244 245-255	Strobe 5: random opening pulse, fast to slow Open Strobe 6: random closing pulse, fast to slow Open Strobe 7: burst pulse, fast to slow Open Strobe 8: random burst pulse, fast to slow Open Strobe 9: sine wave, fast to slow Open Strobe 10: burst, fast to slow Open
10	000-255	RING 1 RED (0%→100%)
11	000-255	RING 1 GREEN (0%→100%)
12	000-255	RING 1 BLUE (0%→100%)
13	000-255	RING 1 WHITE (0%→100%)
14	000-009 010-019 020-024 025-032 033-039 040-047 048-054 055-061 062-069 070-076 077-084 085-091 092-099 100-106 107-113 114-121 122-128 129-136 137-143 144-151 152-158 159-165 166-173 174-180 181-188 189-195 196-203	RING 1 COLOR PRESET Open Color1 Color2 Color3 Color4 Color5 Color6 Color7 Color8 Color9 Color10 Color11 Color12 Color13 Color14 Color15 Color16 Color17 Color18 Color19 Color20 Color21 Color22 Color23 Color24 Color25 Color26

	204-210 211-217 218-225 226-232 233-240 241-247 248-255	Color27 Color28 Color29 Color30 Color31 Color32 Color33
15	000-255	RING 2 RED (0%→100%)
16	000-255	RING 2 GREEN (0%→100%)
17	000-255	RING 2 BLUE (0%→100%)
18	000-255	RING 2 WHITE (0%→100%)
19	000-255	RING 2 COLOR PRESET (The same as CH14: RING 1 COLOR PRESET)
20	000-255	RING 3 RED (0%→100%)
21	000-255	RING 3 GREEN (0%→100%)
22	000-255	RING 3 BLUE (0%→100%)
23	000-255	RING 3 WHITE (0%→100%)
24	000-255	RING 3 COLOR PRESET (The same as CH14: RING 1 COLOR PRESET)
25	000-007 008-022 023-037 038-052 053-067 068-082 083-097 098-112 113-127 128-142 143-157 158-172 173-187 188-202 203-217 218-232 233-247 248-255	RING COLOR MACRO Blackout Macro1 Macro2 Macro3 Macro4 Macro5 Macro6 Macro7 Macro8 Macro9 Macro10 Macro11 Macro12 Macro13 Macro14 Macro15 Macro16 Macro17
26	000-255	COLOR MACRO SPEED slow→fast

15 Channels Mode:

CHANNEL	VALUE	FUNCTION
1	000-255	PAN 0°→540°
2	000-255	PAN FINE
3	000-255	TILT 0°→270°
4	000-255	TILT FINE
5	000-255	PAN/TILT SPEED Fast to Slow
6	000-009 010-014 015-255	SPECIAL FUNCTIONS No function Reset No function
7	000-255	DIMMER 0%→100%
8	000-019 020-024 025-064 065-069 070-084 085-089 090-104 105-109 110-124 125-129 130-144 145-149 150-164 165-169 170-184 185-189 190-204 205-209 210-224 225-229 230-244 245-255	SHUTTER Blackout Open Strobe 1: fast to slow Open Strobe 2: opening pulse, fast to slow Open Strobe 3: closing pulse, fast to slow Open Strobe 4: random strobe, fast to slow Open Strobe 5: random opening pulse, fast to slow Open Strobe 6: random closing pulse, fast to slow Open Strobe 7: burst pulse, fast to slow Open Strobe 8: random burst pulse, fast to slow Open Strobe 9: sine wave, fast to slow Open Strobe 10: burst, fast to slow Open
9	000-255	RED (0%→100%)
10	000-255	GREEN (0%→100%)
11	000-255	BLUE (0%→100%)

12	000-255	WHITE (0%→100%)
13	000-009 010-017 018-024 025-032 033-039 040-047 048-054 055-061 062-069 070-076 077-084 085-091 092-106 107-113 114-121 122-128 129-136 137-143 144-151 152-158 159-165 166-173 174-180 181-188 189-195 196-203 204-210 211-217 218-225 226-232 233-240 241-247 248-255	Color Open Color1 Color2 Color3 Color4 Color5 Color6 Color7 Color8 Color9 Color10 Color11 Color12 Color13 Color14 Color15 Color16 Color17 Color18 Color19 Color20 Color21 Color22 Color23 Color24 Color25 Color26 Color27 Color28 Color29 Color30 Color31 Color32
14	000-255	ZOOM 60°→10°
15	000-031 032-047 048-063 064-079 080-095 096-111 112-127 128-143	Effect NULL Effect1 Effect2 Effect3 Effect4 Effect5 Effect6 Effect7

	144-159	Effect8
	160-175	Effect9
	176-191	Effect10
	192-207	Effect11
	208-223	Effect12
	224-239	Effect13
	240-255	Effect14

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, no light and the fan does not work

1. Check the connected power and main fuse.
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.

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 2014/30/EU.

EN 55032: 2015+A11:2020; EN 55035: 2017+A11: 2020;
EN IEC 61000-3-2: 2019; EN 61000-3-3: 2013+A1: 2019.

&

Harmonized Standard

EN 60598-2-17: 2018; EN 60598-1: 2015+A1: 2018.

Safety of household and similar electrical appliances
Part 1: General requirements and tests

Innovation, Quality, Performance