ACME®

GEMINI

CONTENTS

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℃. Maximum ambient temperature TA: 40℃. 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℃. 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 0.5 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.
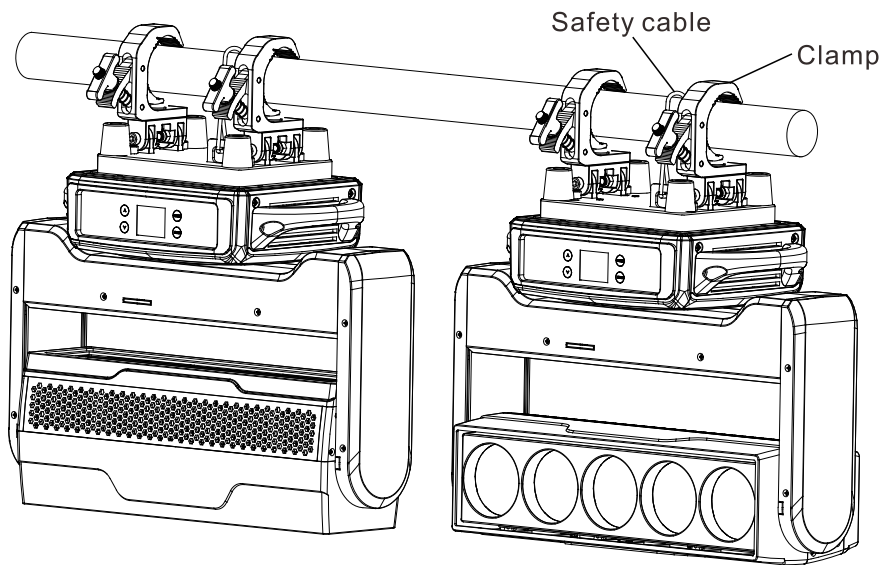
2. Technical Specifications

Power Voltage:

100-240V~ 50/60Hz

Power Consumption:

1240W

Light Source:

5x60W RGBW LED

Beam Angle:

2.8°-31°

Field Angle:

5°-46°

Strobe:

Light Source: 36x18W CW LED

Beam Angle: 96°

Field Angle: 116°

Movement:

Pan/Tilt movement: Infinite

Fixation: Pan/Tilt Lock

Dimmer/Shutter:

Smooth dimming from 0-100%; outstanding strobe effect with variable speed

Control:

DMX Channel: 58/25/23/35+/27/70/55 Channels

Control Mode: DMX512, RDM, Art-Net, sACN

Firmware Upgrade via DMX link

Construction:

Display: LCD display

Battery backup, for user setup without power connection

Data In/Out: 3-pin XLR (5-pin XLR is optional), RJ45

Power In/Out: Power Connector in/out

Protection Rating: IP20

Features:

With zoom and strobe function

Beam mode: 5 LEDs can be controlled individually

Strobe mode: 18 zone can be controlled individually

Linear motorized zoom

Outstanding color mixing effect

2 x fixed clamps for 50mm truss

Dimensions/Weight:

500x223x420.4mm, 20.5kgs

19.7"x8.8"x16.6"in, 45.2lbs
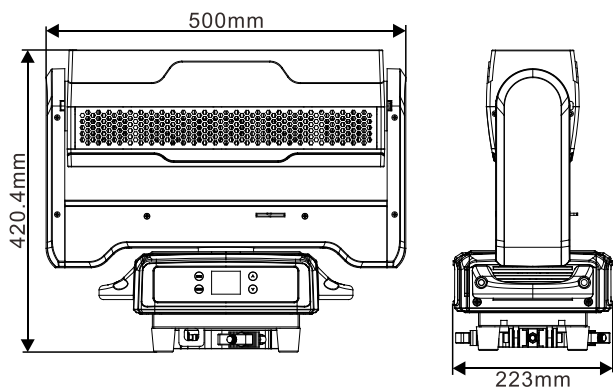
Photometric Diagram:
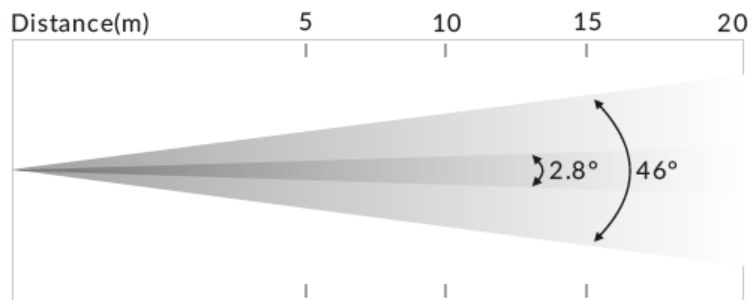
Distance(m)	5	10	15	20
2.8° Lux	18,240	4,560	2,027	1,140
Diameter(m)	0.2	0.4	0.6	0.8
46° Lux	426	109	48	27
Diameter(m)	3.3	6.5	9.8	13
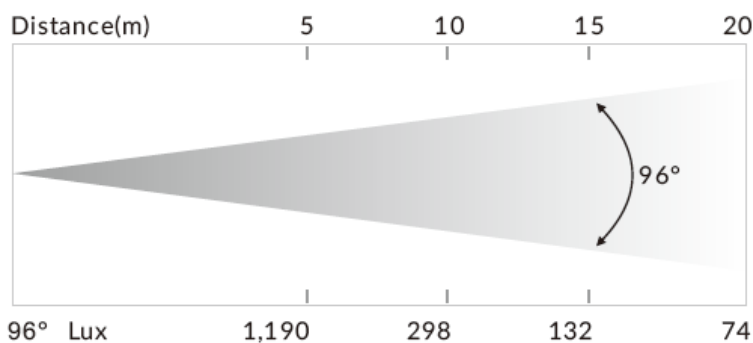
Distance(m)	5	10	15	20
96° Lux	1,190	298	132	74

3. Control Panel
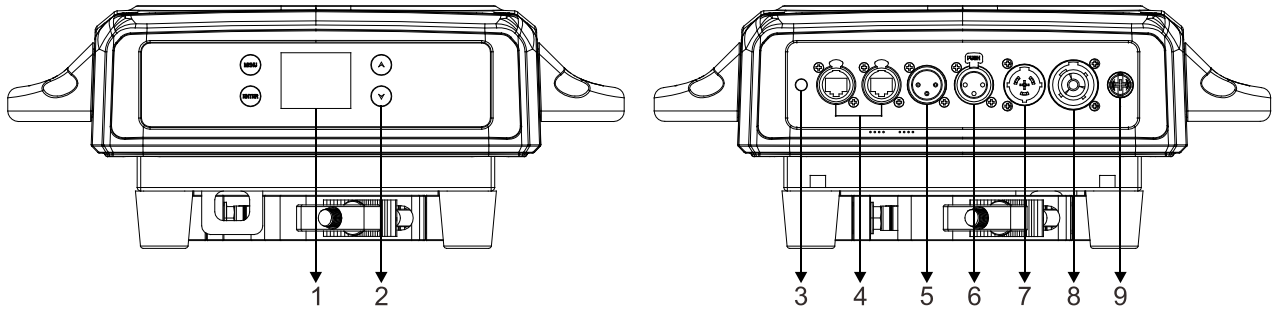
1. Display: To show the various menus and the selected function

2. Button:

MENU	To enter into move backward or leave the menu
UP	To go backward to move up in the menu
DOWN	To go forward to move down in the menu
ENTER	To perform the desired functions

3. BATTERY DISPLAY

4. ETHERNET: Transfers fixture's information to a main controller

5. DMX IN:

For DMX512 link, use 3-pin XLR cable to link the unit and DMX controller (5-pin XLR is optional)

6. DMX OUT:

For DMX512 link, use 3-pin XLR cable to link the next units (5-pin XLR is optional)

7. POWERCON IN: Connects to supply power

8. POWERCON OUT: Connects to the next fixture

9. FUSE(T 15A): Protects the unit from damage of over current

4. How To Set The Unit

4.1 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:

MENU

DMX Settings

- **DMX Address**
  - 1
  - ⋮
  - 455
  - 488
  - 490
  - 478
  - 486
  - 443
  - 458
- **Mode4 ART Addr** — 1-493
- **DMX Channel Mode**
  - 58CH
  - 25CH
  - 23CH
  - 35+CH
  - 27CH
  - 70CH
  - 55CH
- **No DMX Status**
  - Blackout
  - Hold
  - Manual
- **View DMX Value**
- **Connect Option**
  - Auto
  - DMX
  - Art-Net
  - sACN
- **Network**
  - IP Address
    - Default1
    - Default2
    - Manual
  - Subnet Mask — xxx.xxx.xxx.xxx
- **Art-Net Settings**
  - Net — 0-127
  - Sub-Net — 0-15
  - Universe — 0-15
- **sACN Settings**
  - sACN Universe — 1-32000
  - sACN Priority — 0-200
- **Artnet to DMX**
  - No
  - Yes

Fixture Settings

- **Pan Invert**
- **Tilt Invert** — No / Yes
- **P/T Feedback**
- **Dimmer Curve**
  - Linear
  - Square Law
  - Inv SQ Law
  - S Curve
- **Dimmer Speed**
  - Fast
  - Smooth
- **White Balance**
  - Red
  - Green
  - Blue — 125-255
  - Red1
  - ⋮
  - Blue5
- **Invert Pixel Order**
  - Disable
  - Enable

Display Settings

- **Display Invert** — No/Yes
- **Backlight Intensity** — 1~10
- **Temperature Unit** — °C/°F
- **Language**
  - English
  - Chinese

Fixture Test

- **Auto Test**
- **Manual Test**
  - Mode — 001
  - Clear — No/Yes
  - Pan
  - Tilt
  - Pan Infinity
  - Tilt Infinity
  - RLED1
  - GLED1
  - BLED1
  - WLED1
  - RLED2
  - ⋮
  - WLED5
  - LEDW1
  - ⋮
  - LEDW18
  - Intensity — 0-255
  - Duration
  - Rate
  - Effects
  - Zoom
  - Strobe
  - Dimmer
  - • • •
    - Mode — 002
    - Clear — No/Yes
    - Pan
    - Tilt
    - Pan Infinity
    - Tilt Infinity
    - RLED
    - GLED
    - BLED
    - WLED — 0-255
    - Cto
    - Color Macro
    - Zoom
    - Strobe
    - Dimmer
    - Intensity
    - Duration
    - Rate
    - Effects

Fixture Information

- **Fixture Use Hour**
- **LED Use Hour**
  - Total LED Hour
  - LED On Hour
  - LED Hours Reset — Password=050
- **Temperature**
  - LED'S — LED1/2
    - Cur
    - Max
  - PCBA — CPU-A/B/C/D
- **Fan State**
  - B_FAN1/2
  - H_FAN1-5
- **Firmware Version**
- **RDM UID**
- **Error Logs**
  - Fixture Errors
  - Reset Error Log — No / Yes — Password=050

Reset Function

- **Pan/Tilt Reset**
- **Effect Reset** — No / Yes
- **All Reset**

Special Function

- **Factory Restore**
  - No
  - Yes

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DMX Settings

To select **DMX Settings,** press the **ENTER** button to confirm, use the **UP/DOWN** button to select **DMX Address, Mode4 ART Addr, DMX Channel Mode, No DMX Status, View DMX Value, Connect Option, Network, Art-Net Settings, sACN Settings** or **Artnet to DMX.**

DMX Address

To select **DMX Address**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to adjust the address from **001** to **455/488/490/478/486/443/458**, 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.

Mode4 ART Addr

To select **Mode4 ART Addr**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to adjust the address from **001** to **493**, 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.

DMX Channel Mode

To select **DMX Channel Mode**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **58 CH, 25 CH, 23 CH, 35+ CH, 27 CH, 70 CH** or **55 CH**, 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.

No DMX Status

To select **No DMX Status**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **Blackout**(fixture blacks out if DMX signal stops), **Hold**(fixture continues to obey the last command it received Via DMX if DMX signal stops) or **Manual**(the fixture will automatically read the DMX value in the "Manual Test" menu for operation after selecting this mode), 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.

View DMX Value

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

Connect Option

To select **Connect Option**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **Auto, DMX, Art-Net** or **sACN**, 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.

Network

To select **Network**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **IP Address** or **Subnet Mask**, 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.

Art-Net Settings

To select **Art-Net Settings**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **Net, Subnet** or **Universe,** 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.

sACN Settings

To select **sACN Settings**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **sACN Universe** or **sACN Priority,** 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.

Artnet to DMX

To select **Artnet to DMX**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **No** or **Yes,** 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 Settings

To select **Fixture Settings**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **Pan Invert, Tilt Invert, P/T Feedback, Dimmer Curve, Dimmer Speed, White Balance** or **Invert Pixel Order**.

Pan Invert

To select **Pan Invert**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **No** (normal) or **Yes** (pan invert), 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.

Tilt Invert

To select **Tilt Invert**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **No** (normal) or **Yes** (tilt invert), 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.

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 store. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.
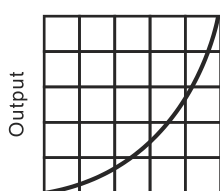
Dimmer Curve

To select **Dimmer Curve**, press the **ENTER** button to confirm. Use the **DOWN/UP** button to select **Linear, Square Law, Inv SQ Law** or **S Curve**, 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
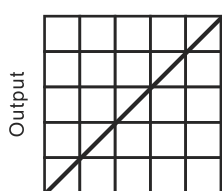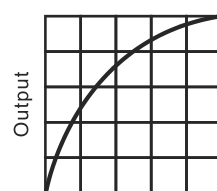
| Optically Linear | Square Law | Inverse Square Law | S-curve |

Optically 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 finger at high levels.

S-Curve: Light intensity control is finger 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**, 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.

White Balance

To select **White Balance**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **Red, Green, Blue, Red1, Green1, Blue1……** or **Red5, Green5, Blue5,** press the **ENTER** button to store. Use the **UP/DOWN** button to adjust the value from **125** to **255**, 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.

Invert Pixel Order

To select **Invert Pixel Order,** press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **Disable** or **Enable**, 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 Settings

To select **Display Settings**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **Display Invert, Backlight Intensity, Temperature Unit** or **Language.**

Display Invert

Select **Display Invert**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **No** (normal display) or **Yes** (invert display), 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.
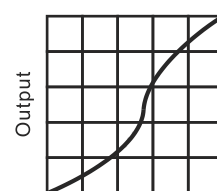
Backlight Intensity

Select **Backlight Intensity**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to adjust backlight intensity from **1** (dark) to **10** (bright), 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.

Temperature Unit

Select **Temperature Unit**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select ℃ or ℉, 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

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

Select **Auto Test**, press the **ENTER** button to confirm, the unit will run built-in programs to automatically test pan, tilt, zoom, 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 **Mode, Clear, Pan, Tilt, Pan Infinity, Tilt Infinity, RLED1, GLED1, BLED1, WLED1, RLED2,……WLED5, LEDW1,……LEDW18, Intensity, Duration, Rate, Effects, Zoom, Strobe** or **Dimmer,** press the **ENTER** button to confirm, use the **UP/DOWN** button to adjust the value, 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. (The fixture will return to the previous DMX state after exiting Manual Test menu and the Manual Test parameters will be automatically saved after power off and restart.)

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, Temperature, Fan State, Firmware Version, RDM UID** or **Error Logs.**

Fixture Use Hour

Select **Fixture Use Hour**, press the **ENTER** button to confirm, fixture use hour 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.

Temperature

Select **Temperature**, press the **ENTER** button to confirm, fixture temperature of LED and PCBA will show on the display, press the **MENU** button to exit.

Fan State

Select **Fan State**, press the **ENTER** button to confirm, fan state will show on the display, press the **MENU** button to exit.

Firmware Version

Select **Firmware Version**, press the **ENTER** button to confirm, firmware version will show on the display, press the **MENU** button back to exit.

RDM UID

Select **RDM UID**, press the **ENTER** button to confirm, RDM UID will show on the display, press the **MENU** button back to exit.

Error Logs

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. 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. Select **Yes**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to set the password **050**, 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.

Reset Function

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

Pan/Tilt Reset

Select **Pan/Tilt Reset**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **No**(normal) 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.

Effect Reset

Select **Effect Reset,** press the **ENTER** button to confirm, use the **UP/DOWN** button to select **No**(normal) or **Yes** (the unit will run built-in program to reset effect to their home positions), press the **ENTER** button to store. Press the **MENU** button to exit.

All Reset

Select **All Reset,** press the **ENTER** button to confirm, use the **UP/DOWN** button to select **No**(normal) or **Yes** (the unit will run built-in program to reset all motors to their home positions), press **ENTER** button to store. Press the **MENU** button to exit.

Special Function

Factory Restore

Select **Factory Restore,** press the **ENTER** button to confirm, use the **UP/DOWN** button to select **No**(normal) or **Yes** (the fixture will reset to factory settings), press **ENTER** button to store. 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 (58/25/23/35+/27/70/55 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.

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.

4.2 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.
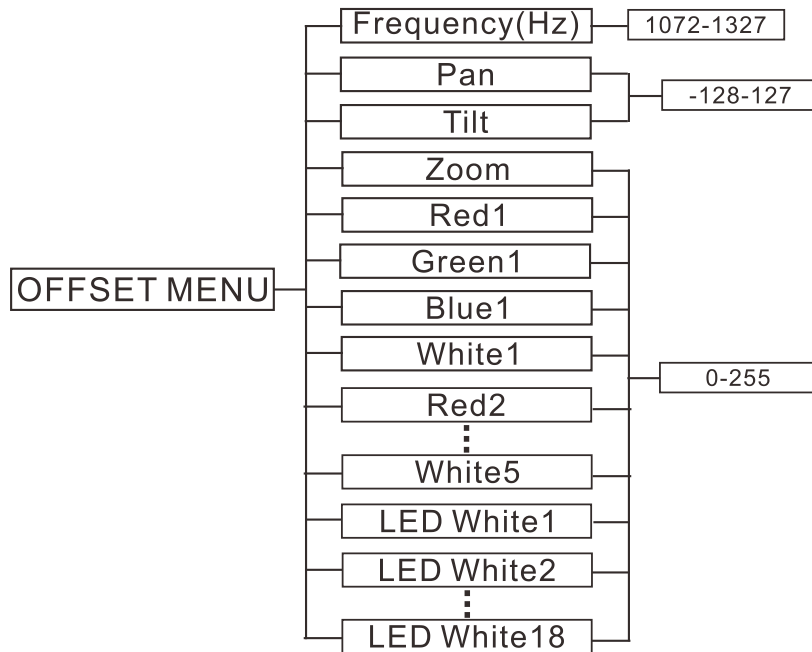
Frequency(Hz)

Enter offset mode, Select **Frequency(Hz)**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP/DOWN** button to offset the value from 1072 to 1327, press the **ENTER** button to store. Press the **MENU** button to exit.

Pan

Enter offset mode, Select **Pan**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP/DOWN** button to offset the value from -128 to 127, press the **ENTER** button to store. Press the **MENU** button to exit.

Tilt

Enter offset mode, Select **Tilt**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP/DOWN** button to offset the value from -128 to 127, press the **ENTER** button to store. Press the **MENU** button to exit.

Zoom

Enter offset mode, Select **Zoom**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP/DOWN** button to offset the value from 0 to 255, press the **ENTER** button to store. Press the **MENU** button to exit.

Red1

Enter offset mode, Select **Red1**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP/DOWN** button to offset the value from 0 to 255, press the **ENTER** button to store. Press the **MENU** button to exit.

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Green1

Enter offset mode, Select **Green1**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP/DOWN** button to offset the value from 0 to 255, press the **ENTER** button to store. Press the **MENU** button to exit.

Blue1

Enter offset mode, Select **Blue1**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP/DOWN** button to offset the value from 0 to 255, press the **ENTER** button to store. Press the **MENU** button to exit.

White1

Enter offset mode, Select **White1**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP/DOWN** button to offset the value from 0 to 255, press the **ENTER** button to store. Press the **MENU** button to exit.

Red2

Enter offset mode, Select **Red2**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP/DOWN** button to offset the value from 0 to 255, press the **ENTER** button to store. Press the **MENU** button to exit.

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White5

Enter offset mode, Select **White5**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP/DOWN** button to offset the value from 0 to 255, press the **ENTER** button to store. Press the **MENU** button to exit.

LED White1

Enter offset mode, Select **LED White1**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP/DOWN** button to offset the value from 0 to 255, press the **ENTER** button to store. Press the **MENU** button to exit.

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LED White18

Enter offset mode, Select **LED White18**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP/DOWN** button to offset the value from 0 to 255, press the **ENTER** button to store. Press the **MENU** button to exit.

5. Control By Universal DMX Controller

5.1 DMX512 Connection
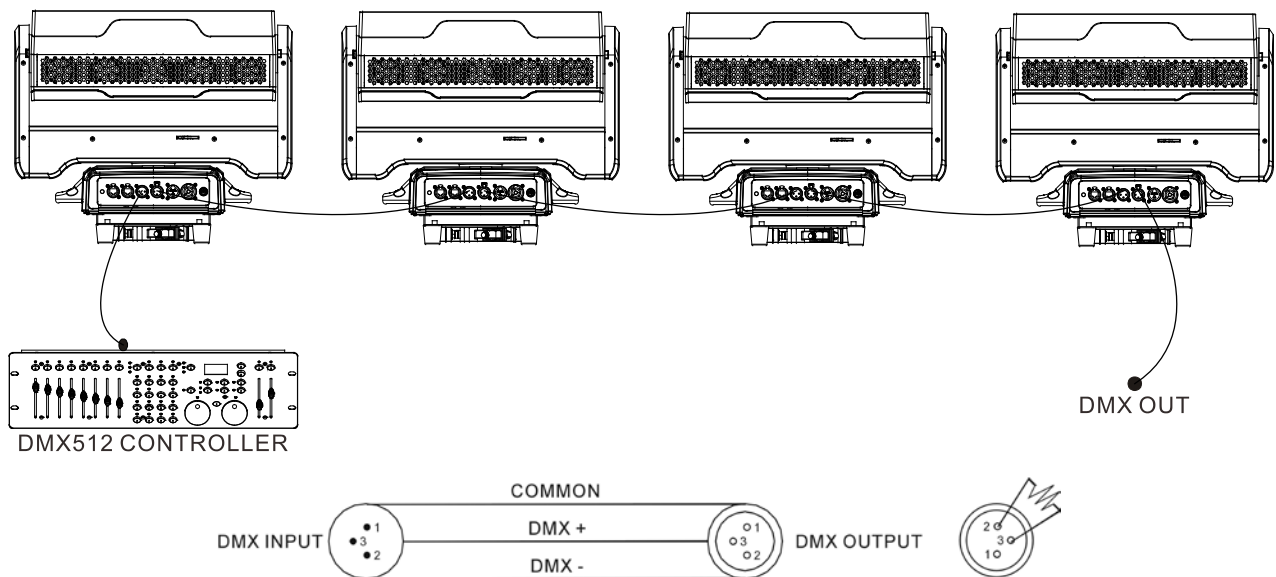
1. At last unit, the DMX cable has to be terminated with a terminator. Solder a 120-ohm 1/4W resistor between pin 2(DMX-) and pin 3(DMX+) into a 3-pin XLR-plug and plug it in the DMX-output of the last unit.

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 cannot be branched or split to a "Y" cable. 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.

5.2 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 Settings, 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
58 channels	1	59	117	175
25 channels	1	26	51	76
23 channels	1	24	47	70
35+ channel (Controlled by DMX)	1	36	71	106
35+ channel (Controlled by Artnet)	1	21	41	61
27 channels	1	28	55	82
70 channels	1	71	141	211
55 channels	1	56	111	166

5.3 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.

58 Channels (Mode 1):

CHANNEL	VALUE	FUNCTION
1	000-255	**PAN** 0°→540°
2	000-255	**PAN FINE**
3	000-255	**TILT** 0°→450°
4	000-255	**TILT FINE**
5	000-127 128-189 190-193 194-255	**PAN INFINITY** Pan Position CCW Rotation, Fast to Slow Stop CW Rotation, Slow to Fast
6	000-127 128-189 190-193 194-255	**TILT INFINITY** Tilt Position CW Rotation, Fast to Slow Stop CCW Rotation, Slow to Fast
7	000-255	**PAN/TILT SPEED** Fast to Slow
8	000-255	**RED1** 0%→100%
9	000-255	**GREEN1** 0%→100%
10	000-255	**BLUE1** 0%→100%
11	000-255	**WHITE1** 0%→100%
12	000-255	**RED2** 0%→100%
13	000-255	**GREEN2** 0%→100%
14	000-255	**BLUE2** 0%→100%
15	000-255	**WHITE2** 0%→100%
16	000-255	**RED3** 0%→100%
17	000-255	**GREEN3** 0%→100%
18	000-255	**BLUE3** 0%→100%

19	000-255	**WHITE3** 0%→100%
20	000-255	**RED4** 0%→100%
21	000-255	**GREEN4** 0%→100%
22	000-255	**BLUE4** 0%→100%
23	000-255	**WHITE4** 0%→100%
24	000-255	**RED5** 0%→100%
25	000-255	**GREEN5** 0%→100%
26	000-255	**BLUE5** 0%→100%
27	000-255	**WHITE5** 0%→100%
28	000-255	**LED WHITE1** 0%→100%
29	000-255	**LED WHITE2** 0%→100%
30	000-255	**LED WHITE3** 0%→100%
31	000-255	**LED WHITE4** 0%→100%
32	000-255	**LED WHITE5** 0%→100%
33	000-255	**LED WHITE6** 0%→100%
34	000-255	**LED WHITE7** 0%→100%
35	000-255	**LED WHITE8** 0%→100%
36	000-255	**LED WHITE9** 0%→100%
37	000-255	**LED WHITE10** 0%→100%
38	000-255	**LED WHITE11** 0%→100%
39	000-255	**LED WHITE12** 0%→100%
40	000-255	**LED WHITE13** 0%→100%

41	000-255	**LED WHITE14** 0%→100%
42	000-255	**LED WHITE15** 0%→100%
43	000-255	**LED WHITE16** 0%→100%
44	000-255	**LED WHITE17** 0%→100%
45	000-255	**LED WHITE18** 0%→100%
46		**PIXEL**
	000-004	Open
	005-009	Pattern 1
	010-014	Pattern 2
	015-019	Pattern 3
	020-024	Pattern 4
	025-029	Pattern 5
	030-034	Pattern 1+2
	035-039	Pattern 2+3
	040-044	Pattern 3+4
	045-049	Pattern 4+5
	050-054	Pattern 1+3
	055-059	Pattern 2+4
	060-064	Pattern 3+5
	065-069	Pattern 1+4
	070-074	Pattern 2+5
	075-079	Pattern 1+2+5
	080-084	Pattern 1+2+4
	085-089	Pattern 1+2+3
	090-094	Pattern 2+3+4
	095-099	Pattern 3+4+5
	100-104	Pattern 1+4+5
	105-109	Pattern 1+2+5
	110-114	Pattern 1+2+4+5
	115-119	Pattern 1+2+3+4
	120-124	Pattern 2+3+4+5
	125-129	Pattern 1+3+4+5
	130-134	Pattern 1+2+3+4+5
	135-139	Built-in Mode1
	140-144	Built-in Mode2
	145-149	Built-in Mode3
	150-154	Built-in Mode4
	155-159	Built-in Mode5
	160-164	Built-in Mode6
	165-169	Built-in Mode7
	170-174	Built-in Mode8

	175-179	Built-in Mode9
	180-184	Built-in Mode10
	185-189	Built-in Mode11
	190-194	Built-in Mode12
	195-199	Built-in Mode13
	200-204	Built-in Mode14
	205-209	Built-in Mode15
	210-214	Built-in Mode16
	215-219	Built-in Mode17
	220-224	Built-in Mode18
	225-229	Built-in Mode19
	230-234	Built-in Mode20
	235-239	Randomly Light Up a Pixel
	240-244	Randomly Light Up two Pixels
	245-255	No Function
47		**PIXEL SPEED**
	000-127	No Function
	128-189	Fast to Slow
	190-193	Stop
	194-255	Slow to Fast
48		**BACKGROUND COLOR**
	000-009	Open
	010-014	LEE 790-Moroccan Pink
	015-019	LEE 157-Pink
	020-024	LEE 332-Special Rose Pink
	025-029	LEE 328-Follies Pink
	030-034	LEE 345-Fuchsia Pink
	035-039	LEE 194-Surprise Pink
	040-044	LEE 181-Congo Blue
	045-049	LEE 071-Tokyo Blue
	050-054	LEE 120-Deep Blue
	055-059	LEE 079-Just Blue
	060-064	LEE 132-Medium Blue
	065-069	LEE 200-Double CT Blue
	070-074	LEE 161-State Blue
	075-079	LEE 201-Full CT Blue
	080-084	LEE 202-Half CT Blue
	085-089	LEE 117-Steel Blue
	090-094	LEE 353-Lighter Blue
	095-099	LEE 118-Light Blue
	100-104	LEE 116-Medium Blue Green
	105-109	LEE 124-Dark Green
	110-114	LEE 139-Primary Green
	115-119	LEE 089-Moss Green
	120-124	LEE 122-Fern Green
	125-129	LEE 738-JAS Green
	130-134	LEE 088-Lime Green

	135-139	LEE 100-Spring Yellow
	140-144	LEE 104-Deep Amber
	145-149	LEE 179-Chrome Orange
	150-154	LEE 105-Orange
	155-159	LEE 021-Gold Amber
	160-164	LEE 778-Millennium Gold
	165-169	LEE 135-Deep Gold Amber
	170-174	LEE 164-Flame Red
	175-179	Open
	180-201	Clockwise Rotation, Fast to Slow
	202-207	Stop
	208-229	Counter-clockwise Rotation, Slow to Fast
	230-234	Open
	235-239	Random Color: Fast
	240-244	Random Color: Medium
	245-249	Random Color: Slow
	250-255	Open
49		**INTENSITY**
	000-005	Blackout
	006-255	Flash Intensity, minimum to maximum
50		**DURATION**
	000-255	Flash Duration, minimum to maximum
51		**RATE**
	000-005	No Flash
	006-255	Flash Rate, Slow to Fast
52		**EFFECTS**
	000-005	No Effect
	006-050	Ramp Up
	051-100	Ramp Down
	101-150	Ramp Up-Down
	151-200	Lightning
	201-255	Random
53		**ZOOM**
	000-255	46°→2.8°
54	000-255	**ZOOM FINE**
55		**STROBE**
	000-007	Close
	008-015	Open
	016-131	Strobe, Slow to Fast
	132-139	Open
	140-181	Fast Close Slow Open
	182-189	Open
	190-231	Fast Open Slow Close
	232-239	Open
	240-247	Random Strobe

	248-255	Open
56		**DIMMER**
	000-255	0%→100%
57	000-255	**DIMMER FINE**
58		**FUNCTION**
	000-029	No Function
	030-039	Dimmer Curve Linear
	040-049	Dimmer Curve Square Law
	050-059	Dimmer Curve Inv SQ Law
	060-069	Dimmer Curve S
	070-079	No Function
	080-089	No Function
	090-099	No Function
	100-109	Led Frequency Setting Enable
	110-119	Led Frequency Setting Disable
	120-139	No Function
	140-149	Pan/Tilt Reset
	150-159	Zoom Reset
	160-199	No Function
	200-209	All Reset
	210-219	Dimmer Speed: Fast
	220-229	Dimmer Speed: Smooth
	230-255	No Function

25 Channels (Mode 2):

CHANNEL	VALUE	FUNCTION
1		**PAN**
	000-255	0°→540°
2	000-255	**PAN FINE**
3		**TILT**
	000-255	0°→450°
4	000-255	**TILT FINE**
5		**PAN INFINITY**
	000-127	Pan Position
	128-189	CCW Rotation, Fast to Slow
	190-193	Stop
	194-255	CW Rotation, Slow to Fast
6		**TILT INFINITY**
	000-127	Tilt Position
	128-189	CW Rotation, Fast to Slow
	190-193	Stop

	194-255	CCW Rotation, Slow to Fast
7	000-255	**PAN/TILT SPEED** Fast to Slow
8	000-255	**RED ALL** 0%→100%
9	000-255	**GREEN ALL** 0%→100%
10	000-255	**BLUE ALL** 0%→100%
11	000-255	**WHITE ALL** 0%→100%
12		**CTO(8000K-2500K)**
	000	Null
	001-004	8000K
	005-009	7900K
	010-013	7800K
	014-018	7700K
	019-022	7600K
	023-027	7500K
	028-031	7400K
	032-036	7300K
	037-040	7200K
	041-045	7100K
	046-049	7000K
	050-054	6900K
	055-058	6800K
	059-063	6700K
	064-067	6600K
	068-072	6500K
	073-076	6400K
	077-081	6300K
	082-085	6200K
	086-090	6100K
	091-094	6000K
	095-099	5900K
	100-103	5800K
	104-108	5700K
	109-112	5600K
	113-117	5500K
	118-121	5400K
	122-126	5300K
	127-130	5200K
	131-135	5100K
	136-139	5000K
	140-144	4900K
	145-148	4800K

	149-153	4700K
	154-157	4600K
	158-162	4500K
	163-166	4400K
	167-171	4300K
	172-175	4200K
	176-180	4100K
	181-184	4000K
	185-189	3900K
	190-193	3800K
	194-198	3700K
	199-202	3600K
	203-207	3500K
	208-211	3400K
	212-216	3300K
	217-220	3200K
	221-225	3100K
	226-229	3000K
	230-234	2900K
	235-238	2800K
	239-243	2700K
	244-247	2600K
	248-255	2500K
13		**COLOR MACRO**
	000-009	Open
	010-014	LEE 790-Moroccan Pink
	015-019	LEE 157-Pink
	020-024	LEE 332-Special Rose Pink
	025-029	LEE 328-Follies Pink
	030-034	LEE 345-Fuchsia Pink
	035-039	LEE 194-Surprise Pink
	040-044	LEE 181-Congo Blue
	045-049	LEE 071-Tokyo Blue
	050-054	LEE 120-Deep Blue
	055-059	LEE 079-Just Blue
	060-064	LEE 132-Medium Blue
	065-069	LEE 200-Double CT Blue
	070-074	LEE 161-State Blue
	075-079	LEE 201-Full CT Blue
	080-084	LEE 202-Half CT Blue
	085-089	LEE 117-Steel Blue
	090-094	LEE 353-Lighter Blue
	095-099	LEE 118-Light Blue
	100-104	LEE 116-Medium Blue Green
	105-109	LEE 124-Dark Green
	110-114	LEE 139-Primary Green
	115-119	LEE 089-Moss Green

	120-124	LEE 122-Fern Green
	125-129	LEE 738-JAS Green
	130-134	LEE 088-Lime Green
	135-139	LEE 100-Spring Yellow
	140-144	LEE 104-Deep Amber
	145-149	LEE 179-Chrome Orange
	150-154	LEE 105-Orange
	155-159	LEE 021-Gold Amber
	160-164	LEE 778-Millennium Gold
	165-169	LEE 135-Deep Gold Amber
	170-174	LEE 164-Flame Red
	175-179	Open
	180-201	Clockwise Rotation, Fast to Slow
	202-207	Stop
	208-229	Counter-clockwise Rotation, Slow to Fast
	230-234	Open
	235-239	Random Color: Fast
	240-244	Random Color: Medium
	245-249	Random Color: Slow
	250-255	Open
		PIXEL
	000-004	Open
	005-009	Pattern 1
	010-014	Pattern 2
	015-019	Pattern 3
	020-024	Pattern 4
	025-029	Pattern 5
	030-034	Pattern 1+2
	035-039	Pattern 2+3
	040-044	Pattern 3+4
	045-049	Pattern 4+5
	050-054	Pattern 1+3
	055-059	Pattern 2+4
14	060-064	Pattern 3+5
	065-069	Pattern 1+4
	070-074	Pattern 2+5
	075-079	Pattern 1+2+5
	080-084	Pattern 1+2+4
	085-089	Pattern 1+2+3
	090-094	Pattern 2+3+4
	095-099	Pattern 3+4+5
	100-104	Pattern 1+4+5
	105-109	Pattern 1+2+5
	110-114	Pattern 1+2+4+5
	115-119	Pattern 1+2+3+4
	120-124	Pattern 2+3+4+5
	125-129	Pattern 1+3+4+5

	130-134	Pattern 1+2+3+4+5
	135-139	Built-in Mode1
	140-144	Built-in Mode2
	145-149	Built-in Mode3
	150-154	Built-in Mode4
	155-159	Built-in Mode5
	160-164	Built-in Mode6
	165-169	Built-in Mode7
	170-174	Built-in Mode8
	175-179	Built-in Mode9
	180-184	Built-in Mode10
	185-189	Built-in Mode11
	190-194	Built-in Mode12
	195-199	Built-in Mode13
	200-204	Built-in Mode14
	205-209	Built-in Mode15
	210-214	Built-in Mode16
	215-219	Built-in Mode17
	220-224	Built-in Mode18
	225-229	Built-in Mode19
	230-234	Built-in Mode20
	235-239	Randomly Light Up a Pixel
	240-244	Randomly Light Up two Pixels
	245-255	No Function
15		**PIXEL SPEED**
	000-127	No Function
	128-189	Fast to Slow
	190-193	Stop
	194-255	Slow to Fast
16		**INTENSITY**
	000-005	Blackout
	006-255	Flash Intensity, minimum to maximum
17		**DURATION**
	000-255	Flash Duration, minimum to maximum
18		**RATE**
	000-005	No Flash
	006-255	Flash Rate, Slow to Fast
19		**EFFECTS**
	000-005	No Effect
	006-050	Ramp Up
	051-100	Ramp Down
	101-150	Ramp Up-Down
	151-200	Lightning
	201-255	Random
20		**ZOOM**
	000-255	46°→2.8°

CHANNEL	VALUE	FUNCTION
21	000-255	**ZOOM FINE**
22		**STROBE**
	000-007	Close
	008-015	Open
	016-131	Strobe, Slow to Fast
	132-139	Open
	140-181	Fast Close Slow Open
	182-189	Open
	190-231	Fast Open Slow Close
	232-239	Open
	240-247	Random Strobe
	248-255	Open
23		**DIMMER**
	000-255	0%→100%
24	000-255	**DIMMER FINE**
25		**FUNCTION**
	000-029	No Function
	030-039	Dimmer Curve Linear
	040-049	Dimmer Curve Square Law
	050-059	Dimmer Curve Inv SQ Law
	060-069	Dimmer Curve S
	070-079	No Function
	080-089	No Function
	090-099	No Function
	100-109	Led Frequency Setting Enable
	110-119	Led Frequency Setting Disable
	120-139	No Function
	140-149	Pan/Tilt Reset
	150-159	Zoom Reset
	160-199	No Function
	200-209	All Reset
	210-219	Dimmer Speed: Fast
	220-229	Dimmer Speed: Smooth
	230-255	No Function

23 Channels (Mode 3):

CHANNEL	VALUE	FUNCTION
1		**PAN**
	000-255	0°→540°
2	000-255	**PAN FINE**
3		**TILT**

	000-255	0°→450°
4	000-255	**TILT FINE**
5		**PAN INFINITY**
	000-127	Pan Position
	128-189	CCW Rotation, Fast to Slow
	190-193	Stop
	194-255	CW Rotation, Slow to Fast
6		**TILT INFINITY**
	000-127	Tilt Position
	128-189	CW Rotation, Fast to Slow
	190-193	Stop
	194-255	CCW Rotation, Slow to Fast
7		**PAN/TILT SPEED**
	000-255	Fast to Slow
8		**RED ALL**
	000-255	0%→100%
9		**GREEN ALL**
	000-255	0%→100%
10		**BLUE ALL**
	000-255	0%→100%
11		**WHITE ALL**
	000-255	0%→100%
12		**CTO(8000K-2500K)**
	000	Null
	001-004	8000K
	005-009	7900K
	010-013	7800K
	014-018	7700K
	019-022	7600K
	023-027	7500K
	028-031	7400K
	032-036	7300K
	037-040	7200K
	041-045	7100K
	046-049	7000K
	050-054	6900K
	055-058	6800K
	059-063	6700K
	064-067	6600K
	068-072	6500K
	073-076	6400K
	077-081	6300K
	082-085	6200K
	086-090	6100K
	091-094	6000K

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	095-099	5900K
	100-103	5800K
	104-108	5700K
	109-112	5600K
	113-117	5500K
	118-121	5400K
	122-126	5300K
	127-130	5200K
	131-135	5100K
	136-139	5000K
	140-144	4900K
	145-148	4800K
	149-153	4700K
	154-157	4600K
	158-162	4500K
	163-166	4400K
	167-171	4300K
	172-175	4200K
	176-180	4100K
	181-184	4000K
	185-189	3900K
	190-193	3800K
	194-198	3700K
	199-202	3600K
	203-207	3500K
	208-211	3400K
	212-216	3300K
	217-220	3200K
	221-225	3100K
	226-229	3000K
	230-234	2900K
	235-238	2800K
	239-243	2700K
	244-247	2600K
	248-255	2500K
13		**COLOR MACRO**
	000-009	Open
	010-014	LEE 790-Moroccan Pink
	015-019	LEE 157-Pink
	020-024	LEE 332-Special Rose Pink
	025-029	LEE 328-Follies Pink
	030-034	LEE 345-Fuchsia Pink
	035-039	LEE 194-Surprise Pink
	040-044	LEE 181-Congo Blue
	045-049	LEE 071-Tokyo Blue
	050-054	LEE 120-Deep Blue
	055-059	LEE 079-Just Blue

	060-064	LEE 132-Medium Blue
	065-069	LEE 200-Double CT Blue
	070-074	LEE 161-State Blue
	075-079	LEE 201-Full CT Blue
	080-084	LEE 202-Half CT Blue
	085-089	LEE 117-Steel Blue
	090-094	LEE 353-Lighter Blue
	095-099	LEE 118-Light Blue
	100-104	LEE 116-Medium Blue Green
	105-109	LEE 124-Dark Green
	110-114	LEE 139-Primary Green
	115-119	LEE 089-Moss Green
	120-124	LEE 122-Fern Green
	125-129	LEE 738-JAS Green
	130-134	LEE 088-Lime Green
	135-139	LEE 100-Spring Yellow
	140-144	LEE 104-Deep Amber
	145-149	LEE 179-Chrome Orange
	150-154	LEE 105-Orange
	155-159	LEE 021-Gold Amber
	160-164	LEE 778-Millennium Gold
	165-169	LEE 135-Deep Gold Amber
	170-174	LEE 164-Flame Red
	175-179	Open
	180-201	Clockwise Rotation, Fast to Slow
	202-207	Stop
	208-229	Counter-clockwise Rotation, Slow to Fast
	230-234	Open
	235-239	Random Color: Fast
	240-244	Random Color: Medium
	245-249	Random Color: Slow
	250-255	Open
14		**ZOOM**
	000-255	46°→2.8°
15	000-255	**ZOOM FINE**
16		**STROBE**
	000-007	Close
	008-015	Open
	016-131	Strobe, Slow to Fast
	132-139	Open
	140-181	Fast Close Slow Open
	182-189	Open
	190-231	Fast Open Slow Close
	232-239	Open
	240-247	Random Strobe
	248-255	Open

17		**DIMMER**
	000-255	0%→100%

18	000-255	**DIMMER FINE**

19		**INTENSITY**
	000-005	Blackout
	006-255	Flash Intensity, minimum to maximum

20		**DURATION**
	000-255	Flash Duration, minimum to maximum

21		**RATE**
	000-005	No Flash
	006-255	Flash Rate, Slow to Fast

22		**EFFECTS**
	000-005	No Effect
	006-050	Ramp Up
	051-100	Ramp Down
	101-150	Ramp Up-Down
	151-200	Lightning
	201-255	Random

23		**FUNCTION**
	000-029	No Function
	030-039	Dimmer Curve Linear
	040-049	Dimmer Curve Square Law
	050-059	Dimmer Curve Inv SQ Law
	060-069	Dimmer Curve S
	070-079	No Function
	080-089	No Function
	090-099	No Function
	100-109	Led Frequency Setting Enable
	110-119	Led Frequency Setting Disable
	120-139	No Function
	140-149	Pan/Tilt Reset
	150-159	Zoom Reset
	160-199	No Function
	200-209	All Reset
	210-219	Dimmer Speed: Fast
	220-229	Dimmer Speed: Smooth
	230-255	No Function

35+ Channels Mode (Controlled by DMX):

CHANNEL	VALUE	FUNCTION
1	000-255	**PAN** 0°→540°
2	000-255	**PAN FINE**
3	000-255	**TILT** 0°→450°
4	000-255	**TILT FINE**
5	000-127 128-189 190-193 194-255	**PAN INFINITY** Pan Position CCW Rotation, Fast to Slow Stop CW Rotation, Slow to Fast
6	000-127 128-189 190-193 194-255	**TILT INFINITY** Tilt Position CW Rotation, Fast to Slow Stop CCW Rotation, Slow to Fast
7	000-255	**PAN/TILT SPEED** Fast to Slow
8	000-255	**LED WHITE1** 0%→100%
9	000-255	**LED WHITE2** 0%→100%
10	000-255	**LED WHITE3** 0%→100%
11	000-255	**LED WHITE4** 0%→100%
12	000-255	**LED WHITE5** 0%→100%
13	000-255	**LED WHITE6** 0%→100%
14	000-255	**LED WHITE7** 0%→100%
15	000-255	**LED WHITE8** 0%→100%
16	000-255	**LED WHITE9** 0%→100%
17	000-255	**LED WHITE10** 0%→100%
18	000-255	**LED WHITE11** 0%→100%

19		LED WHITE12
	000-255	0%→100%

20		LED WHITE13
	000-255	0%→100%

21		LED WHITE14
	000-255	0%→100%

22		LED WHITE15
	000-255	0%→100%

23		LED WHITE16
	000-255	0%→100%

24		LED WHITE17
	000-255	0%→100%

25		LED WHITE18
	000-255	0%→100%

26		INTENSITY
	000-005	Blackout
	006-255	Flash Intensity, minimum to maximum

27		DURATION
	000-255	Flash Duration, minimum to maximum

28		RATE
	000-005	No Flash
	006-255	Flash Rate, Slow to Fast

29		EFFECTS
	000-005	No Effect
	006-050	Ramp Up
	051-100	Ramp Down
	101-150	Ramp Up-Down
	151-200	Lightning
	201-255	Random

30		ZOOM
	000-255	46°→2.8°

31	000-255	ZOOM FINE

32		STROBE
	000-007	Close
	008-015	Open
	016-131	Strobe, Slow to Fast
	132-139	Open
	140-181	Fast Close Slow Open
	182-189	Open
	190-231	Fast Open Slow Close
	232-239	Open
	240-247	Random Strobe
	248-255	Open

33		DIMMER

36C

	000-255	0%→100%
34	000-255	**DIMMER FINE**
35		**FUNCTION**
	000-029	No Function
	030-039	Dimmer Curve Linear
	040-049	Dimmer Curve Square Law
	050-059	Dimmer Curve Inv SQ Law
	060-069	Dimmer Curve S
	070-079	No Function
	080-089	No Function
	090-099	No Function
	100-109	Led Frequency Setting Enable
	110-119	Led Frequency Setting Disable
	120-139	No Function
	140-149	Pan/Tilt Reset
	150-159	Zoom Reset
	160-199	No Function
	200-209	All Reset
	210-219	Dimmer Speed: Fast
	220-229	Dimmer Speed: Smooth
	230-255	No Function

35+ Channels Mode (Controlled by Artnet):

CHANNEL	VALUE	FUNCTION
1	000-255	**RED1** 0%→100%
2	000-255	**GREEN1** 0%→100%
3	000-255	**BLUE1** 0%→100%
4	000-255	**WHITE1** 0%→100%
5	000-255	**RED2** 0%→100%
6	000-255	**GREEN2** 0%→100%
7	000-255	**BLUE2** 0%→100%
8	000-255	**WHITE2** 0%→100%
9		**RED3**

	000-255	0%→100%
10		**GREEN3**
	000-255	0%→100%
11		**BLUE3**
	000-255	0%→100%
12		**WHITE3**
	000-255	0%→100%
13		**RED4**
	000-255	0%→100%
14		**GREEN4**
	000-255	0%→100%
15		**BLUE4**
	000-255	0%→100%
16		**WHITE4**
	000-255	0%→100%
17		**RED5**
	000-255	0%→100%
18		**GREEN5**
	000-255	0%→100%
19		**BLUE5**
	000-255	0%→100%
20		**WHITE5**
	000-255	0%→100%

27 Channels (Mode 5):

CHANNEL	VALUE	FUNCTION
1		**PAN**
	000-255	0°→540°
2	000-255	**PAN FINE**
3		**TILT**
	000-255	0°→450°
4	000-255	**TILT FINE**
5		**PAN INFINITY**
	000-127	Pan Position
	128-189	CCW Rotation, Fast to Slow
	190-193	Stop
	194-255	CW Rotation, Slow to Fast
6		**TILT INFINITY**
	000-127	Tilt Position
	128-189	CW Rotation, Fast to Slow
	190-193	Stop

	194-255	CCW Rotation, Slow to Fast
7	000-255	**PAN/TILT SPEED** Fast to Slow
8	000-255	**RED ALL** 0%→100%
9	000-255	**GREEN ALL** 0%→100%
10	000-255	**BLUE ALL** 0%→100%
11	000-255	**WHITE ALL** 0%→100%
12		**CTO(8000K-2500K)**
	000	Null
	001-004	8000K
	005-009	7900K
	010-013	7800K
	014-018	7700K
	019-022	7600K
	023-027	7500K
	028-031	7400K
	032-036	7300K
	037-040	7200K
	041-045	7100K
	046-049	7000K
	050-054	6900K
	055-058	6800K
	059-063	6700K
	064-067	6600K
	068-072	6500K
	073-076	6400K
	077-081	6300K
	082-085	6200K
	086-090	6100K
	091-094	6000K
	095-099	5900K
	100-103	5800K
	104-108	5700K
	109-112	5600K
	113-117	5500K
	118-121	5400K
	122-126	5300K
	127-130	5200K
	131-135	5100K
	136-139	5000K
	140-144	4900K
	145-148	4800K

	149-153	4700K
	154-157	4600K
	158-162	4500K
	163-166	4400K
	167-171	4300K
	172-175	4200K
	176-180	4100K
	181-184	4000K
	185-189	3900K
	190-193	3800K
	194-198	3700K
	199-202	3600K
	203-207	3500K
	208-211	3400K
	212-216	3300K
	217-220	3200K
	221-225	3100K
	226-229	3000K
	230-234	2900K
	235-238	2800K
	239-243	2700K
	244-247	2600K
	248-255	2500K
13		**COLOR MACRO**
	000-009	Open
	010-014	LEE 790-Moroccan Pink
	015-019	LEE 157-Pink
	020-024	LEE 332-Special Rose Pink
	025-029	LEE 328-Follies Pink
	030-034	LEE 345-Fuchsia Pink
	035-039	LEE 194-Surprise Pink
	040-044	LEE 181-Congo Blue
	045-049	LEE 071-Tokyo Blue
	050-054	LEE 120-Deep Blue
	055-059	LEE 079-Just Blue
	060-064	LEE 132-Medium Blue
	065-069	LEE 200-Double CT Blue
	070-074	LEE 161-State Blue
	075-079	LEE 201-Full CT Blue
	080-084	LEE 202-Half CT Blue
	085-089	LEE 117-Steel Blue
	090-094	LEE 353-Lighter Blue
	095-099	LEE 118-Light Blue
	100-104	LEE 116-Medium Blue Green
	105-109	LEE 124-Dark Green
	110-114	LEE 139-Primary Green
	115-119	LEE 089-Moss Green

	120-124	LEE 122-Fern Green
	125-129	LEE 738-JAS Green
	130-134	LEE 088-Lime Green
	135-139	LEE 100-Spring Yellow
	140-144	LEE 104-Deep Amber
	145-149	LEE 179-Chrome Orange
	150-154	LEE 105-Orange
	155-159	LEE 021-Gold Amber
	160-164	LEE 778-Millennium Gold
	165-169	LEE 135-Deep Gold Amber
	170-174	LEE 164-Flame Red
	175-179	Open
	180-201	Clockwise Rotation, Fast to Slow
	202-207	Stop
	208-229	Counter-clockwise Rotation, Slow to Fast
	230-234	Open
	235-239	Random Color: Fast
	240-244	Random Color: Medium
	245-249	Random Color: Slow
	250-255	Open
		PIXEL
	000-004	Open
	005-009	Pattern 1
	010-014	Pattern 2
	015-019	Pattern 3
	020-024	Pattern 4
	025-029	Pattern 5
	030-034	Pattern 1+2
	035-039	Pattern 2+3
	040-044	Pattern 3+4
	045-049	Pattern 4+5
	050-054	Pattern 1+3
	055-059	Pattern 2+4
14	060-064	Pattern 3+5
	065-069	Pattern 1+4
	070-074	Pattern 2+5
	075-079	Pattern 1+2+5
	080-084	Pattern 1+2+4
	085-089	Pattern 1+2+3
	090-094	Pattern 2+3+4
	095-099	Pattern 3+4+5
	100-104	Pattern 1+4+5
	105-109	Pattern 1+2+5
	110-114	Pattern 1+2+4+5
	115-119	Pattern 1+2+3+4
	120-124	Pattern 2+3+4+5
	125-129	Pattern 1+3+4+5

	130-134	Pattern 1+2+3+4+5
	135-139	Built-in Mode1
	140-144	Built-in Mode2
	145-149	Built-in Mode3
	150-154	Built-in Mode4
	155-159	Built-in Mode5
	160-164	Built-in Mode6
	165-169	Built-in Mode7
	170-174	Built-in Mode8
	175-179	Built-in Mode9
	180-184	Built-in Mode10
	185-189	Built-in Mode11
	190-194	Built-in Mode12
	195-199	Built-in Mode13
	200-204	Built-in Mode14
	205-209	Built-in Mode15
	210-214	Built-in Mode16
	215-219	Built-in Mode17
	220-224	Built-in Mode18
	225-229	Built-in Mode19
	230-234	Built-in Mode20
	235-239	Randomly Light Up a Pixel
	240-244	Randomly Light Up two Pixels
	245-255	No Function
15		**PIXEL SPEED**
	000-127	No Function
	128-189	Fast to Slow
	190-193	Stop
	194-255	Slow to Fast
16		**INTENSITY**
	000-005	Blackout
	006-255	Flash Intensity, minimum to maximum
17		**DURATION**
	000-255	Flash Duration, minimum to maximum
18		**RATE**
	000-005	No Flash
	006-255	Flash Rate, Slow to Fast
19		**EFFECTS 1**
	000-005	No Effect
	006-050	Ramp Up
	051-100	Ramp Down
	101-150	Ramp Up-Down
	151-200	Lightning
	201-255	Random
20		**EFFECTS 2**
	000-004	No Function

	005-009	Show 1
	010-014	Show 2
	015-019	Show 3
	020-024	Show 4
	025-029	Show 5
	030-034	Show 6
	035-039	Show 7
	040-044	Show 8
	045-049	Show 9
	050-054	Show 10
	055-059	Show 11
	060-064	Show 12
	065-069	Show 13
	070-074	Show 14
	075-079	Show 15
	080-084	Show 16
	085-089	Show 17
	090-094	Show 18
	095-099	Show 19
	100-104	Show 20
	105-109	Show 21
	110-114	Show 22
	115-119	Show 23
	120-124	Show 24
	125-129	Show 25
	130-134	Show 26
	135-139	Show 27
	140-144	Show 28
	145-149	Show 29
	150-154	Show 30
	155-159	Show 31
	160-164	Show 32
	165-169	Show 33
	170-174	Show 34
	175-179	Show 35
	180-184	Show 36
	185-189	Show 37
	190-194	Show 38
	195-199	Show 39
	200-204	Show 40
	205-209	Show 41
	210-214	Show 42
	215-219	Show 43
	220-224	Show 44
	225-229	Show 45
	230-234	Show 46
	235-239	Randomly Light Up a Pixel

	240-244	Randomly Light Up two Pixels
	245-255	No Function
		PIXEL SPEED
21	000-127	No Function
	128-189	Fast to Slow
	190-193	Stop
	194-255	Slow to Fast
22		**ZOOM**
	000-255	46°→2.8°
23	000-255	**ZOOM FINE**
		STROBE
	000-007	Close
	008-015	Open
	016-131	Strobe, Slow to Fast
	132-139	Open
24	140-181	Fast Close Slow Open
	182-189	Open
	190-231	Fast Open Slow Close
	232-239	Open
	240-247	Random Strobe
	248-255	Open
25		**DIMMER**
	000-255	0%→100%
26	000-255	**DIMMER FINE**
		FUNCTION
	000-029	No Function
	030-039	Dimmer Curve Linear
	040-049	Dimmer Curve Square Law
	050-059	Dimmer Curve Inv SQ Law
	060-069	Dimmer Curve S
	070-079	No Function
	080-089	No Function
	090-099	No Function
27	100-109	Led Frequency Setting Enable
	110-119	Led Frequency Setting Disable
	120-139	No Function
	140-149	Pan/Tilt Reset
	150-159	Zoom Reset
	160-199	No Function
	200-209	All Reset
	210-219	Dimmer Speed: Fast
	220-229	Dimmer Speed: Smooth
	230-255	No Function

70 Channels (Mode 6):

CHANNEL	VALUE	FUNCTION
1	000-255	**PAN** 0°→540°
2	000-255	**PAN FINE**
3	000-255	**TILT** 0°→450°
4	000-255	**TILT FINE**
5	000-127 128-189 190-193 194-255	**PAN INFINITY** Pan Position CCW Rotation, Fast to Slow Stop CW Rotation, Slow to Fast
6	000-127 128-189 190-193 194-255	**TILT INFINITY** Tilt Position CW Rotation, Fast to Slow Stop CCW Rotation, Slow to Fast
7	000-255	**PAN/TILT SPEED** Fast to Slow
8	000-255	**RED1** 0%→100%
9	000-255	**GREEN1** 0%→100%
10	000-255	**BLUE1** 0%→100%
11	000-255	**WHITE1** 0%→100%
12	000-007 008-015 016-131 132-139 140-181 182-189 190-231 232-239 240-247 248-255	**STROBE1** Close Open Strobe, Slow to Fast Open Fast Close Slow Open Open Fast Open Slow Close Open Random Strobe Open
13	000-255	**DIMMER1** 0%→100%
14	000-255	**DIMMER FINE1**

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15		RED2
	000-255	0%→100%

16		GREEN2
	000-255	0%→100%

17		BLUE2
	000-255	0%→100%

18		WHITE2
	000-255	0%→100%

19		STROBE2
	000-007	Close
	008-015	Open
	016-131	Strobe, Slow to Fast
	132-139	Open
	140-181	Fast Close Slow Open
	182-189	Open
	190-231	Fast Open Slow Close
	232-239	Open
	240-247	Random Strobe
	248-255	Open

20		DIMMER2
	000-255	0%→100%

21	000-255	DIMMER FINE2

22		RED3
	000-255	0%→100%

23		GREEN3
	000-255	0%→100%

24		BLUE3
	000-255	0%→100%

25		WHITE3
	000-255	0%→100%

26		STROBE3
	000-007	Close
	008-015	Open
	016-131	Strobe, Slow to Fast
	132-139	Open
	140-181	Fast Close Slow Open
	182-189	Open
	190-231	Fast Open Slow Close
	232-239	Open
	240-247	Random Strobe
	248-255	Open

27		DIMMER3
	000-255	0%→100%

28	000-255	DIMMER FINE3

29		RED4
	000-255	0%→100%

30		GREEN4
	000-255	0%→100%

31		BLUE4
	000-255	0%→100%

32		WHITE4
	000-255	0%→100%

33		STROBE4
	000-007	Close
	008-015	Open
	016-131	Strobe, Slow to Fast
	132-139	Open
	140-181	Fast Close Slow Open
	182-189	Open
	190-231	Fast Open Slow Close
	232-239	Open
	240-247	Random Strobe
	248-255	Open

34		DIMMER4
	000-255	0%→100%

35	000-255	DIMMER FINE4

36		RED5
	000-255	0%→100%

37		GREEN5
	000-255	0%→100%

38		BLUE5
	000-255	0%→100%

39		WHITE5
	000-255	0%→100%

40		STROBE5
	000-007	Close
	008-015	Open
	016-131	Strobe, Slow to Fast
	132-139	Open
	140-181	Fast Close Slow Open
	182-189	Open
	190-231	Fast Open Slow Close
	232-239	Open
	240-247	Random Strobe
	248-255	Open

41		DIMMER5
	000-255	0%→100%

42	000-255	DIMMER FINE5

43	000-255	**LED WHITE1** 0%→100%
44	000-255	**LED WHITE2** 0%→100%
45	000-255	**LED WHITE3** 0%→100%
46	000-255	**LED WHITE4** 0%→100%
47	000-255	**LED WHITE5** 0%→100%
48	000-255	**LED WHITE6** 0%→100%
49	000-255	**LED WHITE7** 0%→100%
50	000-255	**LED WHITE8** 0%→100%
51	000-255	**LED WHITE9** 0%→100%
52	000-255	**LED WHITE10** 0%→100%
53	000-255	**LED WHITE11** 0%→100%
54	000-255	**LED WHITE12** 0%→100%
55	000-255	**LED WHITE13** 0%→100%
56	000-255	**LED WHITE14** 0%→100%
57	000-255	**LED WHITE15** 0%→100%
58	000-255	**LED WHITE16** 0%→100%
59	000-255	**LED WHITE17** 0%→100%
60	000-255	**LED WHITE18** 0%→100%
61	000-004	**PIXEL** Open
	005-009	Pattern 1
	010-014	Pattern 2
	015-019	Pattern 3
	020-024	Pattern 4
	025-029	Pattern 5
	030-034	Pattern 1+2

	035-039	Pattern 2+3
	040-044	Pattern 3+4
	045-049	Pattern 4+5
	050-054	Pattern 1+3
	055-059	Pattern 2+4
	060-064	Pattern 3+5
	065-069	Pattern 1+4
	070-074	Pattern 2+5
	075-079	Pattern 1+2+5
	080-084	Pattern 1+2+4
	085-089	Pattern 1+2+3
	090-094	Pattern 2+3+4
	095-099	Pattern 3+4+5
	100-104	Pattern 1+4+5
	105-109	Pattern 1+2+5
	110-114	Pattern 1+2+4+5
	115-119	Pattern 1+2+3+4
	120-124	Pattern 2+3+4+5
	125-129	Pattern 1+3+4+5
	130-134	Pattern 1+2+3+4+5
	135-139	Built-in Mode1
	140-144	Built-in Mode2
	145-149	Built-in Mode3
	150-154	Built-in Mode4
	155-159	Built-in Mode5
	160-164	Built-in Mode6
	165-169	Built-in Mode7
	170-174	Built-in Mode8
	175-179	Built-in Mode9
	180-184	Built-in Mode10
	185-189	Built-in Mode11
	190-194	Built-in Mode12
	195-199	Built-in Mode13
	200-204	Built-in Mode14
	205-209	Built-in Mode15
	210-214	Built-in Mode16
	215-219	Built-in Mode17
	220-224	Built-in Mode18
	225-229	Built-in Mode19
	230-234	Built-in Mode20
	235-239	Randomly Light Up a Pixel
	240-244	Randomly Light Up two Pixels
	245-255	No Function
62		**PIXEL SPEED**
	000-127	No Function
	128-189	Fast to Slow
	190-193	Stop

	194-255	Slow to Fast
		BACKGROUND COLOR
	000-009	Open
	010-014	LEE 790-Moroccan Pink
	015-019	LEE 157-Pink
	020-024	LEE 332-Special Rose Pink
	025-029	LEE 328-Follies Pink
	030-034	LEE 345-Fuchsia Pink
	035-039	LEE 194-Surprise Pink
	040-044	LEE 181-Congo Blue
	045-049	LEE 071-Tokyo Blue
	050-054	LEE 120-Deep Blue
	055-059	LEE 079-Just Blue
	060-064	LEE 132-Medium Blue
	065-069	LEE 200-Double CT Blue
	070-074	LEE 161-State Blue
	075-079	LEE 201-Full CT Blue
	080-084	LEE 202-Half CT Blue
	085-089	LEE 117-Steel Blue
	090-094	LEE 353-Lighter Blue
	095-099	LEE 118-Light Blue
	100-104	LEE 116-Medium Blue Green
63	105-109	LEE 124-Dark Green
	110-114	LEE 139-Primary Green
	115-119	LEE 089-Moss Green
	120-124	LEE 122-Fern Green
	125-129	LEE 738-JAS Green
	130-134	LEE 088-Lime Green
	135-139	LEE 100-Spring Yellow
	140-144	LEE 104-Deep Amber
	145-149	LEE 179-Chrome Orange
	150-154	LEE 105-Orange
	155-159	LEE 021-Gold Amber
	160-164	LEE 778-Millennium Gold
	165-169	LEE 135-Deep Gold Amber
	170-174	LEE 164-Flame Red
	175-179	Open
	180-201	Clockwise Rotation, Fast to Slow
	202-207	Stop
	208-229	Counter-clockwise Rotation, Slow to Fast
	230-234	Open
	235-239	Random Color: Fast
	240-244	Random Color: Medium
	245-249	Random Color: Slow
	250-255	Open
64		**INTENSITY**

	000-005	Blackout
	006-255	Flash Intensity, minimum to maximum
65		**DURATION**
	000-255	Flash Duration, minimum to maximum
66		**RATE**
	000-005	No Flash
	006-255	Flash Rate, Slow to Fast
67		**EFFECTS**
	000-005	No Effect
	006-050	Ramp Up
	051-100	Ramp Down
	101-150	Ramp Up-Down
	151-200	Lightning
	201-255	Random
68		**ZOOM**
	000-255	46°→2.8°
69	000-255	**ZOOM FINE**
70		**FUNCTION**
	000-029	No Function
	030-039	Dimmer Curve Linear
	040-049	Dimmer Curve Square Law
	050-059	Dimmer Curve Inv SQ Law
	060-069	Dimmer Curve S
	070-079	No Function
	080-089	No Function
	090-099	No Function
	100-109	Led Frequency Setting Enable
	110-119	Led Frequency Setting Disable
	120-139	No Function
	140-149	Pan/Tilt Reset
	150-159	Zoom Reset
	160-199	No Function
	200-209	All Reset
	210-219	Dimmer Speed: Fast
	220-229	Dimmer Speed: Smooth
	230-255	No Function

55 Channels (Mode 7):

CHANNEL	VALUE	52C	FUNCTION
1	000-255		**PAN** 0°→540°
2	000-255		**PAN FINE**
3	000-255		**TILT** 0°→450°
4	000-255		**TILT FINE**
5	000-127 128-189 190-193 194-255		**PAN INFINITY** Pan Position CCW Rotation, Fast to Slow Stop CW Rotation, Slow to Fast
6	000-127 128-189 190-193 194-255		**TILT INFINITY** Tilt Position CW Rotation, Fast to Slow Stop CCW Rotation, Slow to Fast
7	000-255		**PAN/TILT SPEED** Fast to Slow
8	000-255		**RED1** 0%→100%
9	000-255		**GREEN1** 0%→100%
10	000-255		**BLUE1** 0%→100%
11	000-255		**WHITE1** 0%→100%
12	000-255		**RED2** 0%→100%
13	000-255		**GREEN2** 0%→100%
14	000-255		**BLUE2** 0%→100%
15	000-255		**WHITE2** 0%→100%
16	000-255		**RED3** 0%→100%
17	000-255		**GREEN3** 0%→100%
18	000-255		**BLUE3** 0%→100%

19	000-255	WHITE3 0%→100%
20	000-255	RED4 0%→100%
21	000-255	GREEN4 0%→100%
22	000-255	BLUE4 0%→100%
23	000-255	WHITE4 0%→100%
24	000-255	RED5 0%→100%
25	000-255	GREEN5 0%→100%
26	000-255	BLUE5 0%→100%
27	000-255	WHITE5 0%→100%
28	000-255	LED WHITE1 0%→100%
29	000-255	LED WHITE2 0%→100%
30	000-255	LED WHITE3 0%→100%
31	000-255	LED WHITE4 0%→100%
32	000-255	LED WHITE5 0%→100%
33	000-255	LED WHITE6 0%→100%
34	000-255	LED WHITE7 0%→100%
35	000-255	LED WHITE8 0%→100%
36	000-255	LED WHITE9 0%→100%
37	000-255	LED WHITE10 0%→100%
38	000-255	LED WHITE11 0%→100%
39	000-255	LED WHITE12 0%→100%
40	000-255	LED WHITE13 0%→100%

41	000-255	**LED WHITE14** 0%→100%
42	000-255	**LED WHITE15** 0%→100%
43	000-255	**LED WHITE16** 0%→100%
44	000-255	**LED WHITE17** 0%→100%
45	000-255	**LED WHITE18** 0%→100%
46	000-005 006-255	**INTENSITY** Blackout Flash Intensity, minimum to maximum
47	000-255	**DURATION** Flash Duration, minimum to maximum
48	000-005 006-255	**RATE** No Flash Flash Rate, Slow to Fast
49	000-005 006-050 051-100 101-150 151-200 201-255	**EFFECTS** No Effect Ramp Up Ramp Down Ramp Up-Down Lightning Random
50	000-255	**ZOOM** 46°→2.8°
51	000-255	**ZOOM FINE**
52	000-007 008-015 016-131 132-139 140-181 182-189 190-231 232-239 240-247 248-255	**STROBE** Close Open Strobe, Slow to Fast Open Fast Close Slow Open Open Fast Open Slow Close Open Random Strobe Open
53	000-255	**DIMMER** 0%→100%
54	000-255	**DIMMER FINE**
55	000-029	**FUNCTION** No Function

	030-039	Dimmer Curve Linear
	040-049	Dimmer Curve Square Law
	050-059	Dimmer Curve Inv SQ Law
	060-069	Dimmer Curve S
	070-079	No Function
	080-089	No Function
	090-099	No Function
	100-109	Led Frequency Setting Enable
	110-119	Led Frequency Setting Disable
	120-139	No Function
	140-149	Pan/Tilt Reset
	150-159	Zoom Reset
	160-199	No Function
	200-209	All Reset
	210-219	Dimmer Speed: Fast
	220-229	Dimmer Speed: Smooth
	230-255	No Function

6. Error Information

Error codes are shown continuously in the display when the fixture fails and they will not disappear until the fixture is repaired.

1. CPU-B/C/D Error

Check whether the 485 (DATA) leads on the PCB board are installed in place or disconnected.

Check whether the related 485 (DATA) signal circuit on the PCB board is damaged.

2. Pan Reset Error

Check whether the position of the pan where the magnet is installed falls off or is damaged.

Check whether there are obstacles in the pan operating range.

Check whether the Hall element on the pan is damaged.

Check whether the lead connecting the Hall element on the pan and the PCB board is in poor contact or disconnected.

Check whether the motor on the pan is damaged.

Check whether the related circuit of the motor drive board on the pan is damage.

3. Pan Encode Error

Check whether the encoder on the pan is damaged.

Check whether the lead connecting the encoder on the pan and the PCB board is in poor contact or disconnected.

4. Tilt Reset Error

Check whether the position of the tilt where the magnet is installed falls off or is damaged.

Check whether there are obstacles in the tilt operating range.

Check whether the Hall element on the tilt is damaged.

Check whether the lead connecting the Hall element on the tilt and the PCB board is in poor contact or disconnected.

Check whether the motor on the tilt is damaged.

Check whether the related circuit of the motor drive board on the tilt is damage.

5. Tilt Encode Error

Check whether the encoder on the tilt is damaged.

Check whether the lead connecting the encoder on the tilt and the PCB board is in poor contact or disconnected.

6. Zoom Reset Error

Check whether the position of the zoom where the magnet is installed falls off or is damaged.

Check whether there are obstacles in the zoom operating range.

Check whether the Hall element on the zoom is damaged.

Check whether the lead connecting the Hall element on the zoom and the PCB board is in poor contact or disconnected.

Check whether the motor on the zoom is damaged.

Check whether the related circuit of the motor drive board on the zoom is damage.

7. LED Temp.1/2 Error

Check whether the temperature detecting board is normal.

Check whether the components of the temperature detecting board are damaged.

Check whether the lead on the temperature detecting board is installed in place or disconnected.

8. BaseFan1/2 Start Error

Check whether the fan is not running.

Check whether the fan leads are installed in place or disconnected.

Check whether the fan is damaged.

Check whether there are obstacles in the fan operating range.

9. BaseFan1/2 Stop Error

Check whether the fan circuit on the motherboard breaks down.

Check whether the component is damaged.

10. BaseFan1/2 Too Slow

Check whether the fan is out of order.

Check whether there are obstacles in the fan operating range.

11. BaseFan1/2 Too Fast

Check whether the fan is out of order.

Check whether the fan circuit on the motherboard breaks down.

12. HeadFan 1/2/3/4/5 Start Error

Check whether the fan is not running.

Check whether the fan leads are installed in place or disconnected.

Check whether the fan is damaged.

Check whether there are obstacles in the fan operating range.

13. HeadFan 1/2/3/4/5 Stop Error

Check whether the fan circuit on the motherboard breaks down.

Check whether the component is damaged.

14. HeadFan 1/2/3/4/5 Too Slow

Check whether the fan is out of order.

Check whether there are obstacles in the fan operating range.

15. HeadFan 1/2/3/4/5 Too Fast

Check whether the fan is out of order.

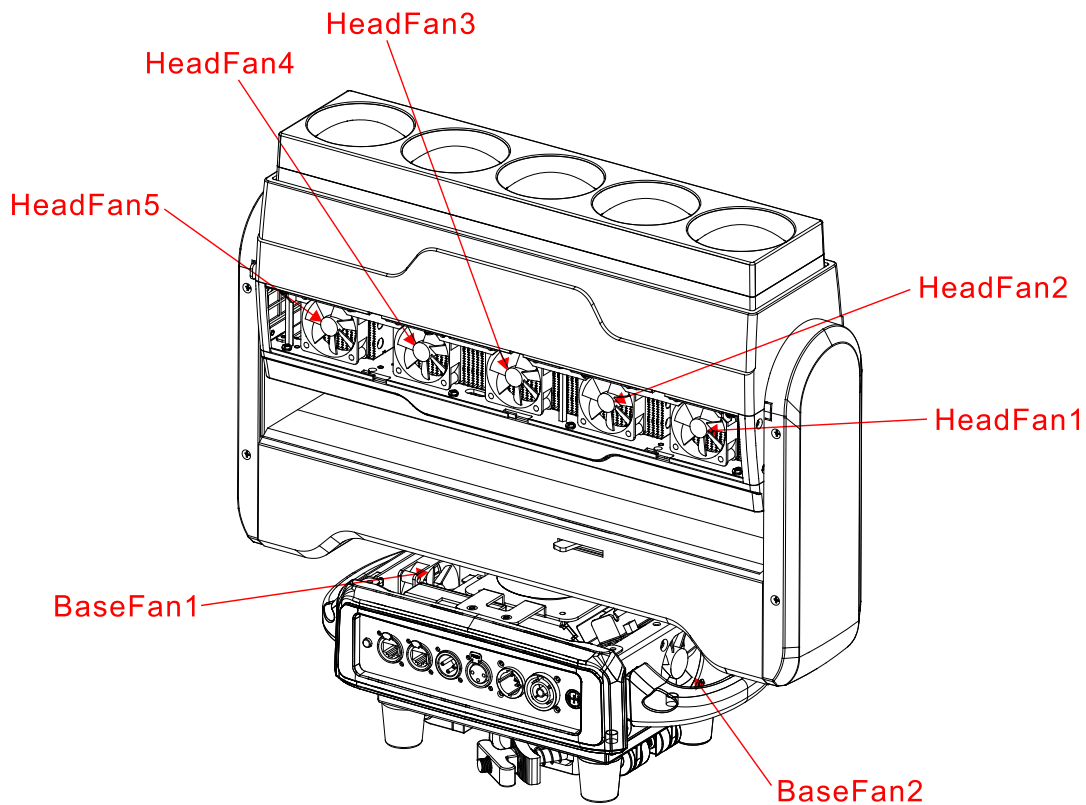Check whether the fan circuit on the motherboard breaks down.

16. LED Too Hot Off

When the fixture temperature of beam mode reaches 75℃, it will automatically turn off to protect the fixture.

When the fixture temperature of strobe mode reaches 100℃, it will automatically turn off to protect the fixture.

17. LED Timeout Use

The position of each fan of the fixture:

7. 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.

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.

8. 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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