

User Manual

Please read the instruction carefully before use

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

990W

Light Source:

19x40W RGBW LED

Zoom Range:

6°~40°

Movement:

Pan: 540°

Tilt: 240°

Pan/Tilt Resolution: 16bit

Dimmer/Shutter:

0~100% smooth dimming, various strobe speed

Control:

DMX Channel: 17/21/86 Channels

Control Mode: DMX512, RDM

Firmware Upgrade: Update via DMX link or USB disk

Construction:

Display: Color display

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

Power In/Out: Waterproof Power Connector in/out

Protection Rating: IP66

Features:

Pixel control, outstanding color macro effect

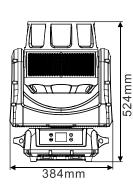
Electronic linear zoom system

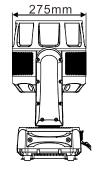
Integrated powerful beam and wash features

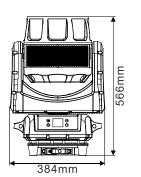
IP66 protection rating, can be used outdoors all year round

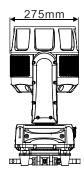
Dimension/Weight:

384x275x524mm, 24kgs 15"x10.8"x20.6"in, 53lbs 384x275x566mm, 25.8kgs (Version with clamp) 15"x10.8"x22.3"in, 57lbs (Version with clamp)







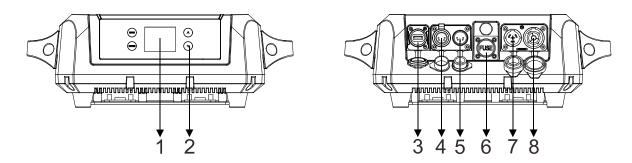


Photometric Diagram:

Distance(m)	5	10	15	20
	I	I		1
			26°)40°
	1	1	1	1
6°Lux Diameter(m)	20500 0.5	5100 1.0	2270 1.6	1280 2.1
40° Lux Diameter(m)	1280 3.6	320 7.3	140 10.8	80 14.4

3. How To Set The Unit

3.1 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
A UP	To go backward to move up in the menu
V DOWN	To go forward to move down in the menu
ENTER	To perform the desired functions

3. FIRMWARE UPGRADE: Used to upgrade fixture's firmware

4. DMX OUT:

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

5. DMX IN:

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

6. FUSE(T 15A):

To protect the unit from damage of over-voltage or short circuit

7. POWER IN:

To connect to supply power

8. POWER OUT:

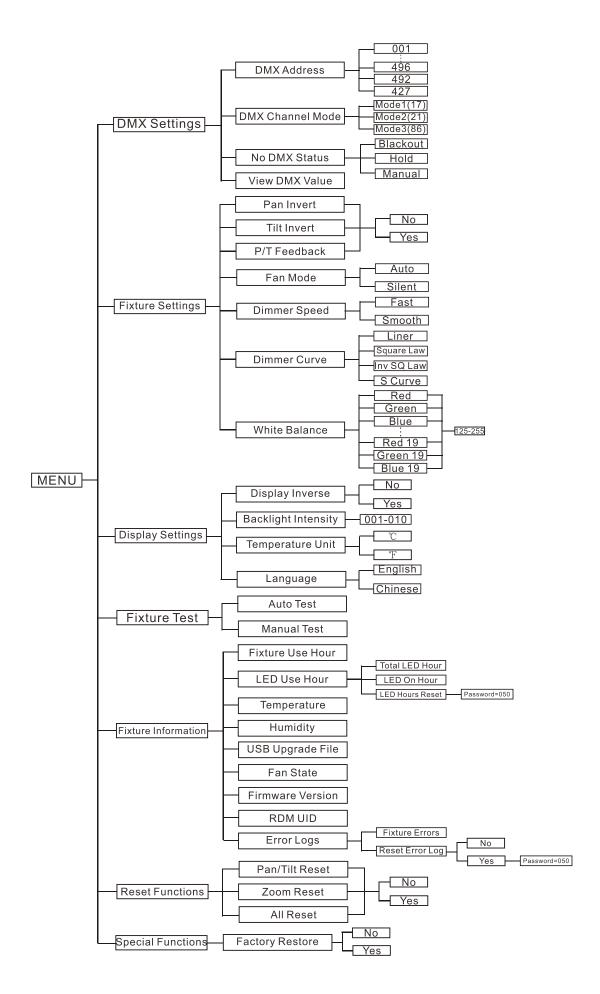
To connect to the next fixture

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 screen will be automatically locked if there is no operation for a long time, and can be unlocked by long-pressing the MENU button.

The main functions are shown below:



DMX Settings

To select DMX Settings, press the ENTER button to confirm, use the UP/DOWN button to select DMX Address, DMX Channel Mode, No DMX Status 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 **496/492/427**, 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 **Mode1(17)**, **Mode2(21)** or **Mode3(86)**, 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.

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, Fan Mode, Dimmer Speed, Dimmer Curve** or **White Balance**.

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.

Fan Mode

To select **Fan Mode**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **Auto** or **Silent**, 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.

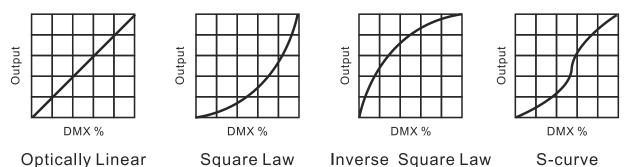
Dimmer Speed

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.

Dimmer Curve

To select **Dimmer Curve**, press the **ENTER** button confirm. Use the **DOWN/UP** button to select **Linear**, **Square law**, **Inv SQ law** or **S Curve**. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

Dimmer Modes



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.

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**, **Red2**, **Green2**, **Blue2**.....**Red19**, **Green19**, **Blue19**, 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.

Display Settings

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

Display Inverse

Select **Display Inverse**, press the **ENTER** button to confirm, present mode will blink on the display, use the **UP/DOWN** button to select **No** (normal display) or **Yes** (inverse 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, present mode will blink on the display, press the ENTER button to confirm, then use the **UP/DOWN** button to adjust the value **001-010**, 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, present mode will blink on the display, use the **UP/DOWN** button to select $^{\circ}C$ or $^{\circ}F$, 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.

Language

Select Language, press the ENTER button to confirm, present mode will blink on the display, 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 itself. Press the **MENU** button back to the last menu or exit menu mode after auto test.

Manual Test

Select **Manual Test**, press the **ENTER** button to confirm, the present channel will show on the display, use the **UP/DOWN** button to select channel, press the **ENTER** button to confirm, then use the **UP/DOWN** button to adjust the value, press the **ENTER** button to store, the fixture will run as the channel value indicates. Press the **MENU** button back to the last menu or exit menu mode idling 30 seconds.

(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, Humidity, USB Upgrade File, 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 to exit.

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Temperature

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

Humidity

Select **Humidity**, press the **ENTER** button to confirm, fixture humidity will show on the display, press the **MENU** button to exit.

USB Upgrade File

Select **USB Upgrade File**, press the **ENTER** button to confirm, USB upgrade file 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 Functions

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

Pan/Tilt Reset

To 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.

Zoom Reset

To select **Zoom Reset**, 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 position), press the **ENTER** button to store. Press the **MENU** button to exit.

All Reset

To select **All Reset**, 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 the **MENU** button to exit.

Special Functions

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 (17/21/86 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.

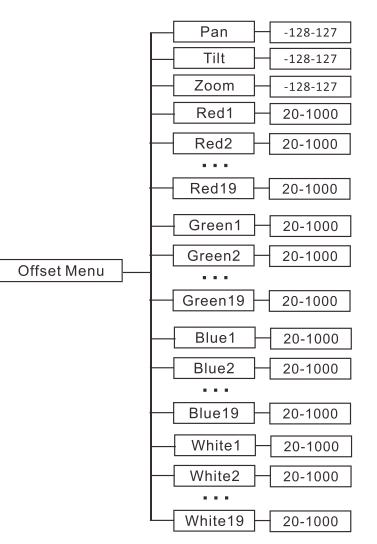
Select the PAN INVERT menu and the fixture will run the pan invert mode.

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.

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.



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 -128 to 127, 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 20 to 1000, 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 20 to 1000, press the **ENTER** button to store. Press the **MENU** button to exit.

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Red19

Enter offset mode, Select **Red19**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP/DOWN** button to offset the value from 20 to 1000, press the **ENTER** button to store. Press the **MENU** button to exit.

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 20 to 1000, press the **ENTER** button to store. Press the **MENU** button to exit.

Green2

Enter offset mode, Select **Green2**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP/DOWN** button to offset the value from 20 to 1000, press the **ENTER** button to store. Press the **MENU** button to exit.

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Green19

Enter offset mode, Select **Green19**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP/DOWN** button to offset the value from 20 to 1000, 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 20 to 1000, press the **ENTER** button to store. Press the **MENU** button to exit.

Blue2

Enter offset mode, Select **Blue2**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP/DOWN** button to offset the value from 20 to 1000, press the **ENTER** button to store. Press the **MENU** button to exit.

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Blue19

Enter offset mode, Select **Blue19**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP/DOWN** button to offset the value from 20 to 1000, 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 20 to 1000, press the **ENTER** button to store. Press the **MENU** button to exit.

White2

Enter offset mode, Select **White2**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP/DOWN** button to offset the value from 20 to 1000, press the **ENTER** button to store. Press the **MENU** button to exit.

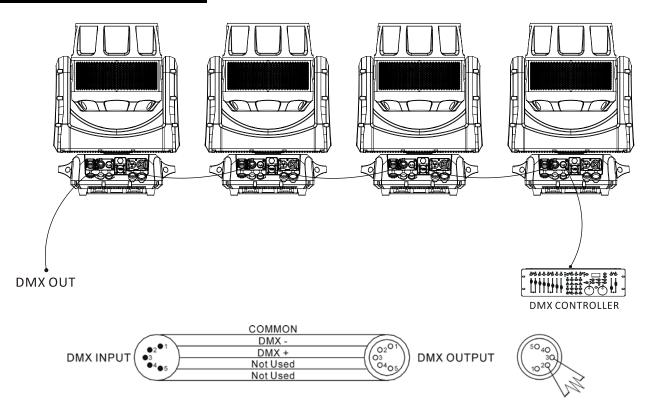
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White19

Enter offset mode, Select **White19**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP/DOWN** button to offset the value from 20 to 1000, 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 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.

Channel mode	Unit 1 Address	Unit 2 Address	Unit 3 Address	Unit 4 Address
17 channels	1	18	35	52
21 channels	1	22	43	64
86 channels	1	87	173	259

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

4.3 DMX 512 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.

17 Channels (Mode 1):

CHANNEL	VALUE	FUNCTION
1	000-255	PAN 0°→540°
2	000-255	PAN FINE
3	000-255	TILT 0°→240°
4	000-255	TILT FINE
5	000-255	ZOOM 6°→40°

	FUNCTION
000 070	Null
	Dimmer Smooth
	Dimmer Fast
	Null
	Pan/Tilt Reset
	Zoom Reset
	Null
200-209	Reset All
210-255	Null
	DIMMER
000-255	0%→100%
000-255	DIMMER FINE
	STROBE
000-007	Close
008-015	Open
016-131	Strobe effect slow to fast
032-139	Open
140-181	Fast close slow open slow to fast
182-189	Open
190-231	Fast open slow close slow to fast
	Open
	Random strobe effect slow to fast
	Open
	RED
000-255	0%→100%
	GREEN
000-255	0%→100%
	BLUE
000-255	0%→100%
	WHITE
000-255	0%→100%
	LINEAR CTO (8000K-2500K)
000	Null
001-004	8000K
005-009	7900К
010-013	7800K
014-018	7700K
019-022	7600K
023-027	7500K
028-031	7400K
	7300K
	7200K
	7100K
046-049	7000K
	000-255 000-007 008-015 016-131 032-139 140-181 182-189 190-231 232-239 240-247 248-255 000-255 000-255 000-255 000-255 000-255 000-255 000-255 000-255 000-255

050-054 6900K 055-058 6800K 059-063 6700K 064-067 6600K 068-072 6500K 073-076 6400K 077-081 6300K 082-0285 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 131-135 5100K 131-135 5100K 131-135 5100K 131-135 5000K 140-144 4900K 145-148 4800K 149-153 4700K 158-162 4500K 163-166 4400K 167-171 4300K 172-175 4200K 176-180 4100K 181-184 4000K 185-189
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 113-117 5500K 113-12 5600K 113-13 5100K 122-126 5300K 127-130 5200K 131-135 5100K 136-139 5000K 145-148 4800K 149-153 4700K 154-157 4600K 153-166 4400K 167-171 4300K 172-175 4200K 176-180 4100K 185-189 3900K 190-193 3800K 194-198 3700K 193-202 3600K 203-207 3500K 208-211
064-067 6600K 068-072 6500K 073-076 6400K 077-081 6300K 082-085 6200K 086-090 6110K 091-094 6000K 095-099 5900K 100-103 5800K 109-112 5600K 109-112 5600K 113-117 5500K 113-117 5500K 113-121 5400K 122-126 5300K 131-135 5100K 131-135 5100K 136-139 5000K 140-144 4900K 145-148 4800K 149-153 4700K 158-162 4500K 163-166 4400K 167-171 4300K 176-180 4100K 185-189 3900K 190-193 3800K 190-193 3800K 199-202 3600K 208-211 3400K
068-072 6500K 073-076 6400K 077-081 6300K 082-085 6200K 086-090 6100K 091-094 6000K 095-099 5900K 100-103 5800K 109-112 5600K 113-117 5500K 113-117 5500K 113-117 5500K 113-121 5400K 122-126 5300K 136-139 5000K 131-135 5100K 131-39 5000K 140-144 4900K 145-148 4800K 149-153 4700K 154-157 4600K 163-166 4400K 167-171 4300K 172-175 4200K 176-180 4100K 185-189 3900K 190-193 3800K 194-198 3700K 199-202 3600K 203-207 3500K
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154-1574600K158-1624500K163-1664400K167-1714300K172-1754200K176-1804100K181-1844000K185-1893900K190-1933800K194-1983700K199-2023600K203-2073500K208-2113400K
158-1624500K163-1664400K167-1714300K172-1754200K176-1804100K181-1844000K185-1893900K190-1933800K194-1983700K199-2023600K203-2073500K208-2113400K
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185-1893900K190-1933800K194-1983700K199-2023600K203-2073500K208-2113400K
190-1933800K194-1983700K199-2023600K203-2073500K208-2113400K
194-1983700K199-2023600K203-2073500K208-2113400K
199-2023600K203-2073500K208-2113400K
203-207 3500K 208-211 3400K
208-211 3400К
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
15 COLOR MACRO (32 COLOR)
15 000-007 NULL

	008-011	Color1
	012-015	Color2
	016-019	Color3
	020-023	Color4
	024-027	Color5
	028-031	Color6
	032-035	Color7
	036-039	Color8
	040-043	Color9
	044-047	Color10
	048-051	Color11
	052-055	Color12
	056-059	Color13
	060-063	Color14
	064-067	Color15
	068-071	Color16
	072-075	Color17
	076-079	Color18
	080-083	Color19
	084-087	Color20
	088-091	Color21
	092-095	Color22
	096-099	Color23
	100-103	Color24
	104-107	Color25
	108-111	Color26
	112-115	Color27
	116-119	Color28
	120-123	Color29
	120-123	Color30
	128-131	Color31
	132-135	Color32 Rotate CW Fast → Slow
	136-165	
	166-195	Rotate CCW Slow \rightarrow Fast
	196-205	Red → Green
	206-215	Red → Blue
	216-225	$Red \to White$
	226-235	Green → Blue
	236-245	Green → White
	246-255	Blue → White
		PIXEL (See "Pixel of 16 CH" in detail)
	000	No Function
	001	Open
16	002-245	Pattern1-244
	246	Built-in Mode1
	247	Built-in Mode2
	248	Built-in Mode3

	249 250	One light is on randomly Tow lights are on randomly
	251-255	Open ,
		PIXEL ROTATION
	000-031	NULL
17	032-091	Rotate CW Fast → Slow
17	092-101	NULL
	102-161	Rotate CCW Slow → Fast
	162-255	NULL

21 Channels (Mode 2):

CHANNEL	VALUE	FUNCTION
1		PAN
-	000-255	0°→540°
2	000-255	PAN FINE
3	000 255	TILT 0°→240°
	000-255	
4	000-255	TILT FINE
5	000-255	ZOOM 6°→40°
		FUNCTION
	000-079	Null
	080-089	Dimmer Smooth
	090-099	Dimmer Fast
6	100-139	Null
6	140-149	Pan/Tilt Reset
	150-159	Zoom Reset
	160-199	Null
	200-209	Reset All
	210-255	Null
-		DIMMER
7	000-255	0%→100%
8	000-255	DIMMER FINE
		STROBE
	000-007	Close
	008-015	Open
	016-131	Strobe effect slow to fast
9	032-139	Open
	140-181	Fast close slow open slow to fast
	182-189	Open
	190-231	Fast open slow close slow to fast

	232-239	Open
	240-247	Random strobe effect slow to fast
	248-255	Open
10		RED
10	000-255	0%→100%
11		GREEN
11	000-255	0%→100%
12		BLUE
16	000-255	0%→100%
13		WHITE
	000-255	0%→100%
14		RED2
14	000-255	0%→100%
15		GREEN2
	000-255	0%→100%
16		BLUE2
	000-255	0%→100%
17		WHITE2
	000-255	0%→100%
18		RED3
	000-255	0%→100%
19		GREEN3
	000-255	0%→100%
20		BLUE3
	000-255	0%→100%
21		WHITE3
£±	000-255	0%→100%

86 Channels (Mode 3):

CHANNEL	VALUE	FUNCTION
1	000-255	PAN 0°→540°
2	000-255	PAN FINE
3	000-255	TILT 0°→240°
4	000-255	TILT FINE
5	000-255	PAN/TILT SPEED Fast→Slow
6	000-255	ZOOM 6°→40°

		STROBE
	000-007	Close
	008-015	Open
	016-131	Strobe effect slow to fast
	032-139	Open
7	140-181	Fast close slow open slow to fast
/	140-181	
		Open
	190-231	Fast open slow close slow to fast
	232-239	Open De adama da de a fratador da frat
	240-247	Random strobe effect slow to fast
	248-255	Open
8		DIMMER
	000-255	0%→100%
9	000-255	DIMMER FINE
10		RED1
10	000-255	0%→100%
11		GREEN1
11	000-255	0%→100%
42		BLUE1
12	000-255	0%→100%
		WHITE1
13	000-255	0%→100%
		RED2
14	000-255	0% ~ 100%
15		GREEN2
	000-255	0%→100%
		BLUE2
16	000-255	0%→100%
		WHITE2
17	000-255	0%→100%
		RED3
18	000-255	0%→100%
		GREEN3
19	000-255	0%→100%
		BLUE3
20	000-255	0%→100%
		WHITE3
21	000-255	0%→100%
22		RED4
	000-255	0%→100%
		GREEN4
23	000-255	0%→100%
	000-233	
24		BLUE4
	000-255	0%→100%

		WHITE4
25	000-255	0%→100%
26		RED5
20	000-255	0%→100%
27		GREEN5
	000-255	0%→100%
28		BLUE5
	000-255	0%→100%
29		WHITE5
	000-255	0%→100%
30		RED6
	000-255	0%→100%
31	000.055	GREEN6
	000-255	0%→100%
32	000 355	BLUE6
	000-255	0%→100%
33	000 255	WHITE6
	000-255	0%→100%
34	000 255	RED7
	000-255	0%→100%
35	000.255	GREEN7 0%→100%
	000-255	
36	000-255	BLUE7 0%→100%
	000-233	WHITE7
37	000-255	0%→100%
	000 233	RED8
38	000-255	0%→100%
		GREEN8
39	000-255	0%→100%
		BLUE8
40	000-255	0%→100%
		WHITE8
41	000-255	0%→100%
40		RED9
42	000-255	0%→100%
43		GREEN9
	000-255	0%→100%
44		BLUE9
	000-255	0%→100%
45		WHITE9
	000-255	0%→100%
46		RED10
46	000-255	0%→100%

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		WHITE15			
69	000-255	0%→100%			
		RED16			
70	000-255	0%→100%			
		GREEN16			
71	000-255	0%→100%			
		BLUE16			
72	000-255	0%→100%			
		WHITE16			
73	000-255	0%→100%			
		RED17			
74	000-255	0%→100%			
_	1	GREEN17			
75	000-255	0%→100%			
	1	BLUE17			
76	000-255	0%→100%			
		WHITE17			
77	000-255	0%→100%			
	1	RED18			
78	000-255	0%→100%			
	1	GREEN18			
79	000-255	0%→100%			
		BLUE18			
80	000-255	0%→100%			
01		WHITE18			
81	000-255	0%→100%			
01		RED19			
82	000-255	0%→100%			
83		GREEN19			
65	000-255	0%→100%			
84		BLUE19			
04	000-255	0%→100%			
85		WHITE19			
65	000-255	0%→100%			
		FUNCTION			
	000-079	NULL			
86	080-089	Dimmer Smooth			
	090-099	Dimmer Fast			
	100-139	NULL			
	140-149	Pan Tilt Reset			
	150-159	Zoom Reset			
	160-199	NULL			
	200-209	Reset All			
	210-255	NULL			

Pixel of 16 CH:

Value: 000	Value: 001	Value: 002	Value: 003	Value: 004	Value: 005	Value:006	Value: 007
Value:008	Value:009	Value:010	Value:011	Value:012	Value:013	Value:014	Value:015
Value: 016	Value: 017	Value : 018	Value : 019	Value : 020	Value : 021	Value: 022	Value : 023
Value: 024	Value: 025	Value: 026	Value: 027	Value : 028	Value: 029	Value: 030	Value: 031
Value: 032	Value: 033	Value: 034	Value : 035	Value : 036	Value : 037	Value : 038	Value: 039
Value : 040	Value: 041	Value: 042	Value : 043	Value : 044	Value: 045	Value: 046	Value : 047
Value : 048	Value : 049	Value : 050	Value : 051	Value: 052	Value : 053	Value : 054	Value: 055
Value: 056	Value: 057	Value : 058	Value : 059	Value : 060	Value : 061	Value : 062	Value: 063
Value: 064	Value : 065	Value : 066	Value : 067	Value : 068	Value : 069	Value : 070	Value: 071
Value: 072	Value: 073	Value : 074	Value: 075	Value : 076	Value : 077	Value: 078	Value: 079
Value: 080	Value : 081	Value : 082	Value : 083	Value : 084	Value : 085	Value : 086	Value : 087

Value : 088	Value : 089	Value: 090	Value: 091	Value: 092	Value: 093	Value: 094	Value: 095
Value : 096	Value: 097	Value: 098	Value: 099	Value : 100	Value : 101	Value : 102	Value : 103
Value : 104	Value : 105	Value : 106	Value : 107	Value : 108	Value : 109	Value : 110	Value : 111
Value : 112	Value : 113	Value : 114	Value: 115	Value: 116	Value : 117	Value : 118	Value : 119
Value : 120	Value: 121	Value : 122	Value: 123	Value: 124	Value : 125	Value: 126	Value : 127
Value : 128	Value : 129	Value : 130	Value : 131	Value : 132	Value : 133	Value : 134	Value: 135
Value : 136	Value : 137	Value : 138	Value : 139	Value : 140	Value : 141	Value : 142	Value : 143
Value : 144	Value : 145	Value : 146	Value : 147	Value : 148	Value: 149	Value : 150	Value: 151
Value : 152	Value : 153	Value: 154	Value : 155	Value : 156	Value : 157	Value : 158	Value: 159
Value : 160	Value : 161	Value : 162	Value : 163	Value : 164	Value : 165	Value : 166	Value : 167
Value : 168	Value : 169	Value : 170	Value : 171	Value : 172	Value : 173	Value : 174	Value : 175

Value : 176	Value : 177	Value: 178	Value : 179	Value: 180	Value: 181	Value: 182	Value : 183
Value : 184	Value : 185	Value : 186	Value : 187	Value : 188	Value : 189	Value : 190	Value : 191
Value : 192	Value : 193	Value : 194	Value : 195	Value : 196	Value: 197	Value: 198	Value : 199
Value : 200	Value : 201	Value : 202	Value: 203	Value : 204	Value : 205	Value : 206	Value : 207
Value : 208	Value : 209	Value : 210	Value: 211	Value : 212	Value: 213	Value : 214	Value : 215
Value : 216	Value : 217	Value : 218	Value : 219	Value : 220	Value: 221	Value : 222	Value : 223
Value : 224	Value : 225	Value : 226	Value : 227	Value: 228	Value : 229	Value : 230	Value : 231
Value : 232	Value : 233	Value : 234	Value : 235	Value : 236	Value : 237	Value : 238	Value : 239
Value : 240	Value : 241	Value : 242	Value : 243	Value: 244	Value : 245		
	Value : 246			Value : 247			
	Value : 248		Value : 249 Randomly	Value: 250 Randomly	Value : 251-255		

5. 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. 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.

2. 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.

3. 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.

4. 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.

5. CPU-B/C/D/E/F/G/H 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.

6. BaseFan1/2 cannot start

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.

7. BaseFan1/2 cannot stop

Check whether the fan circuit on the motherboard breaks down.

Check whether the component is damaged.

8. LEDFan1/2 cannot start

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. LEDFan1/2 cannot stop

Check whether the fan circuit on the motherboard breaks down.

Check whether the component is damaged.

10. LEDFan1/2 speed too fast

Check whether the fan is out of order.

Check whether the fan circuit on the motherboard breaks down.

11. LEDFan1/2 speed too slow

Check whether the fan is out of order.

Check whether there are obstacles in the fan operating range.

12. HeadFan1/2/3 cannot start

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. HeadFan1/2/3 cannot stop

Check whether the fan circuit on the motherboard breaks down.

Check whether the component is damaged.

14. HeadFan1/2/3 speed too fast

Check whether the fan is out of order.

Check whether the fan circuit on the motherboard breaks down.

15. HeadFan1/2/3 speed too slow

Check whether the fan is out of order.

Check whether there are obstacles in the fan operating range.

16. ArmFan2 cannot start

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.

17. ArmFan2 cannot stop

Check whether the fan circuit on the motherboard breaks down.

Check whether the component is damaged.

18. Led Temp. Too High

Check if the fan is working properly.

Check if the fan speed is normal.

Check if the ambient temperature is abnormal.

6. 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 the 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.

7. 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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