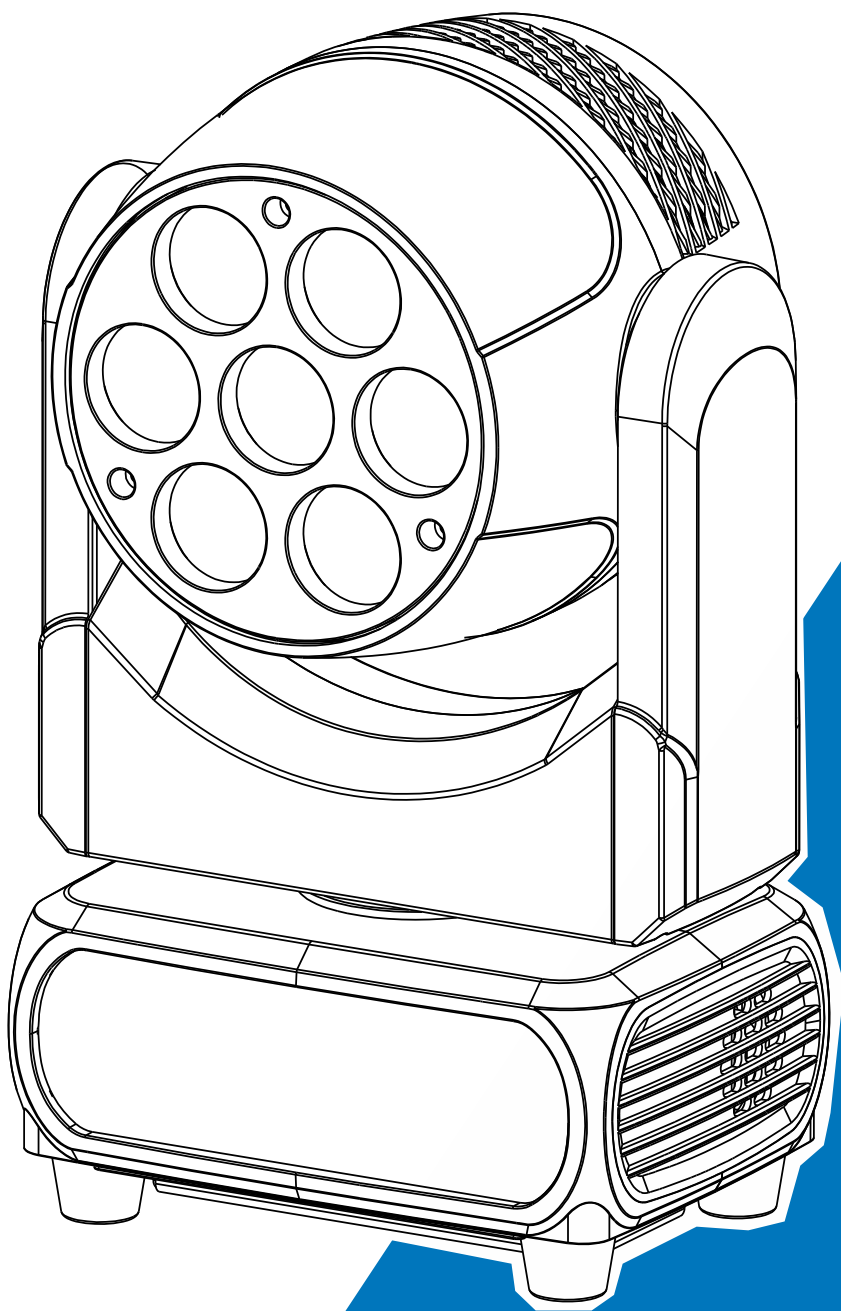




O₂xygen



User Manual

Please read the instruction carefully before use

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01/ Safety Instructions



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

WARNING

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

Important:

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

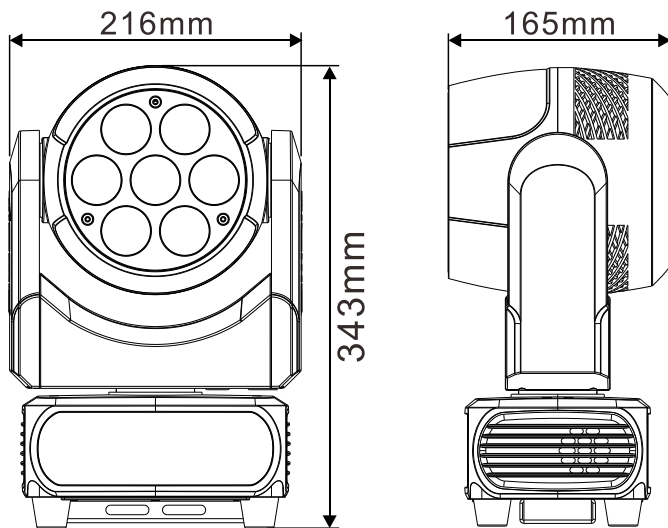
- Unpack and check carefully to ensure that there is no transportation damage before using the unit.
- This product is for indoor use only. Use only in a dry location.
- DO install and operate by qualified operator.
- DO NOT allow children to operate the fixture.
- Use safety chain when fixing the unit.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

off the mains power immediately.

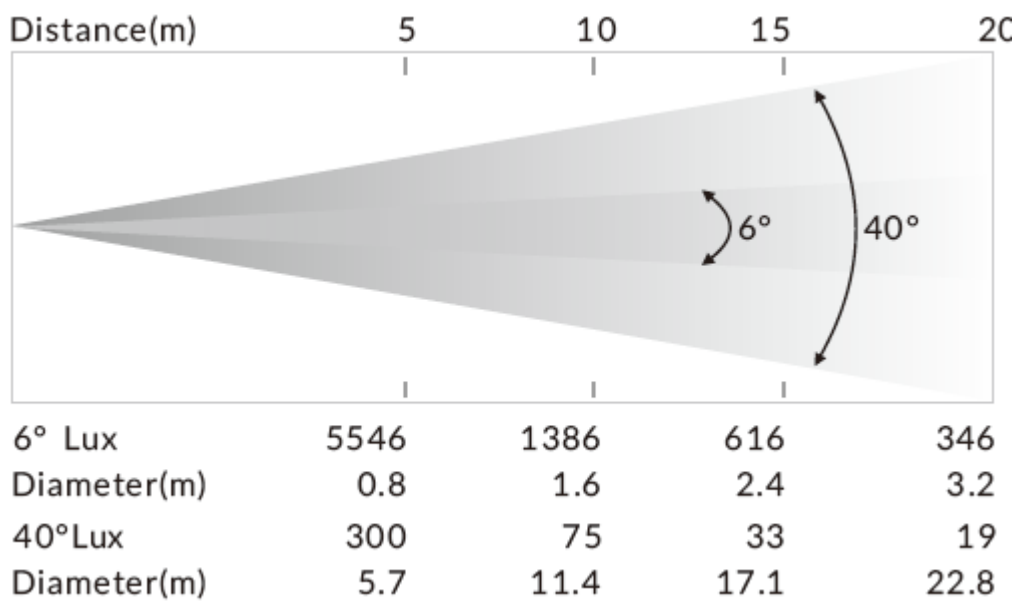
- DO NOT operate in a dirty or dusty environment. DO clean the fixture regularly.
- DO NOT touch any wire during operation as there might be a hazard of electric shock.
- Avoid entanglement of the power cord with other wires.
- The minimum distance to objects/surface must be more than 0.5 meters.
- In 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.

02/ Technical Specifications

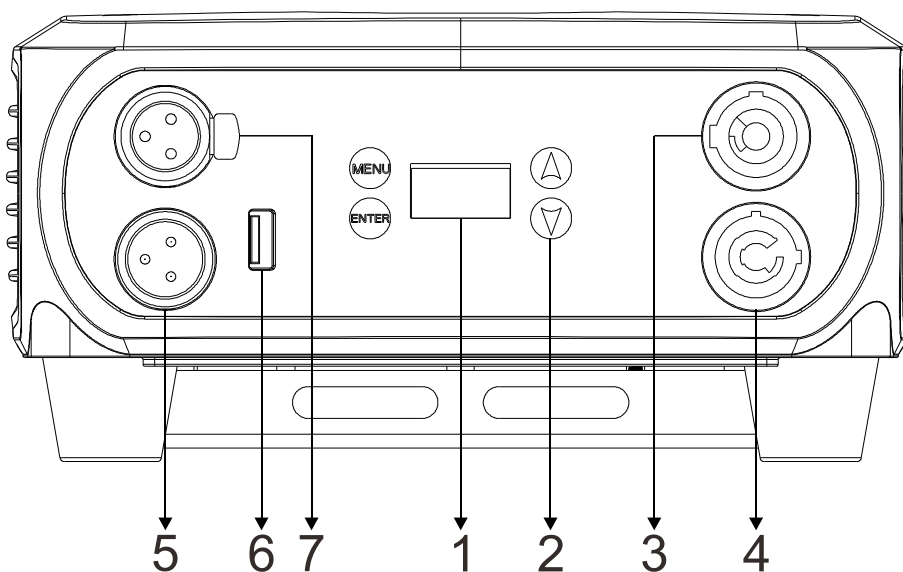
Power Voltage	100-240V~ 50/60Hz	
Power Consumption	340W	
Light Source	7x40W RGBW LED	
Color Temperature	2500K-8000K	
Beam Angle	6°-40°	
Field Angle	10°-60°	
Dimmer/Strobe	0-100% smooth dimming; outstanding strobe effect with variable speed	
Movement	Pan	540°
	Tilt	230°
	Pan/Tilt Resolution	16 bit
	Automatic pan/tilt position correction	
Control	DMX Channel	17/37 Channels
	Control Mode	DMX512
		RDM
		Primary/Secondary Mode
	Firmware Upgrade	via DMX link or USB disk
Construction	Display	OLED display
	Data In/Out	3-pin XLR (5-pin XLR is optional)
	Power In/Out	Power Connector in/out
	Protection Rating	IP20
Features	Pixel control, uniform RGBW color mixing and rainbow effect	
	Motorized liner zoom system	
	Compact design, small size, fast and silent operation	
Dimensions	216x165x343mm	8.5"x6.5"x13.5" in
Weight	5.3kgs	11.7lbs



Photometric Diagram:



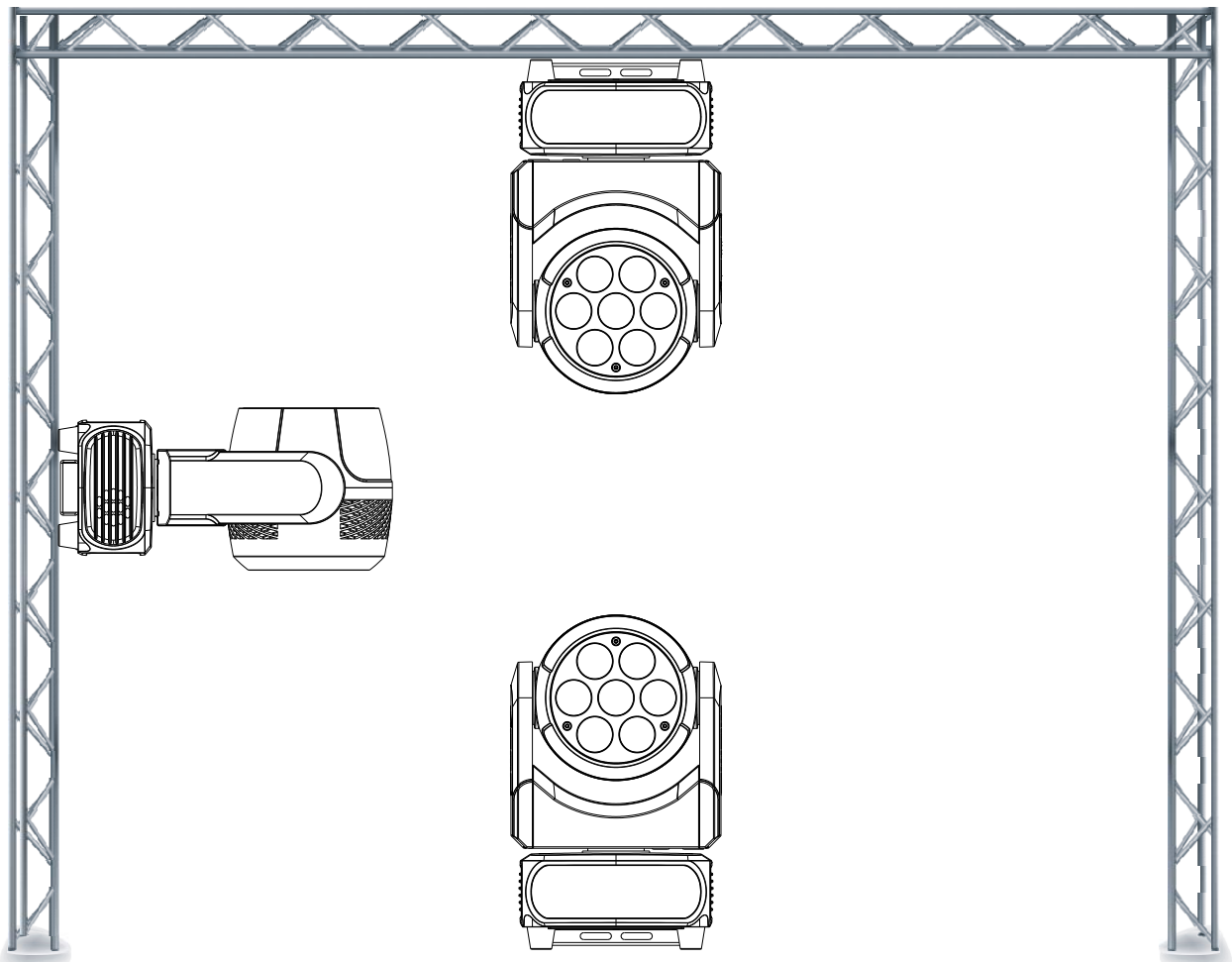
03/ Control Panel

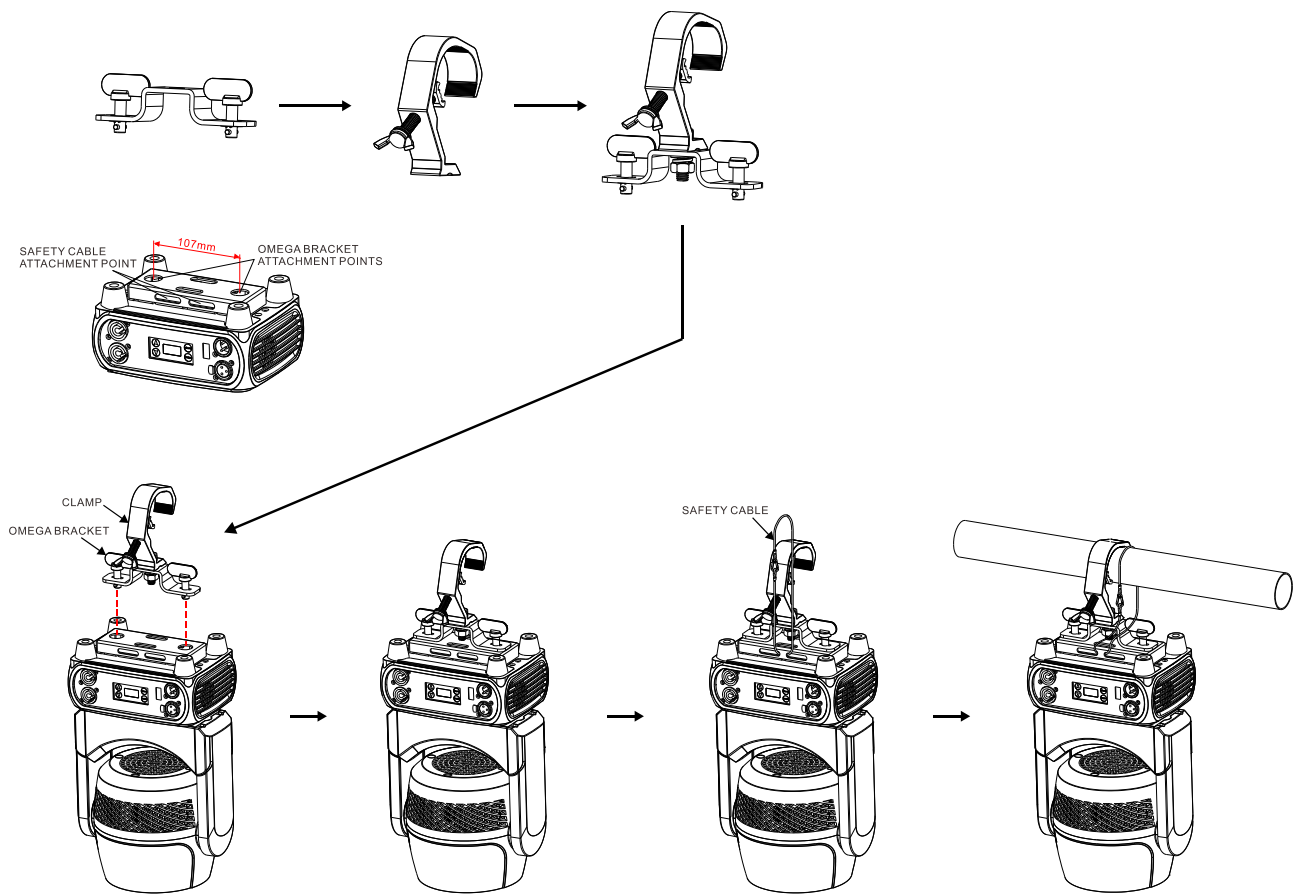


1. Display	To show the various menus and the selected function	
2. Buttons	MENU	To enter into move backward or leave the menu
	▲ UP	To go backward to move up in the menu
	▼ DOWN	To go forward to move down in the menu
	ENTER	To perform the desired functions
3. POWER OUT	To connect to the next fixture	
4. POWER IN	To connect to supply power	
5. DMX IN	For DMX512 link, use 3-pin XLR cable to link the unit and DMX controller to input DMX signal (5-pin XLR cable is optional)	
6. FIRMWARE UPGRADE	Used to upgrade fixture's firmware	
7. DMX OUT	For DMX512 link, use 3-pin XLR cable to link the next units to output DMX signal (5-pin XLR cable is optional)	

04/ Fixture Installation

- ▶ DO install and operate by qualified operator. Fixture(s) should be installed in areas outside walking paths, seating areas, or away from areas where unauthorized personnel might reach the fixture by hand. NEVER stand directly below the fixture(s) when rigging, removing or servicing.
- ▶ 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 attach a safety cable that can hold at least 12 times the weight of the fixture whenever installing this fixture in a suspended environment to ensure that the fixture will not fall if the clamp fails.
- ▶ This fixture is fully operational in three different mounting positions: hanging upside-down, mounted sideways on trussing, or set on a flat level surface. Always use and install the supplied safety cable as a safety measure to prevent accidental damage and/or injury in the event the clamp fails.





05/ How To Set The Unit

5.1 Main Functions

- ▶ To access the control menus, press the [MENU] button.
- ▶ Navigate the menu structure, using the [ENTER], [▲ UP] and [▼ DOWN] buttons.
- ▶ To select a menu option or to confirm a selection, press the [ENTER] button.
- ▶ To return to a higher level in the menu structure without making a change, press the [MENU] button, or wait 30 seconds.

The main functions are shown below:

MENU	SUBMENU	OPTIONS	
DMX Settings	DMX Address	1-496 (17 CH)	(Default=1)
		1-476 (37 CH)	
	Channel Mode	Mode 1 (17)	
		Mode 2 (37)	
	No DMX State	Hold	
		Blackout	
		Pri. Sec.	
Fixture Settings	Pan Invert	No	
		Yes	
	Tilt Invert	No	
		Yes	
	P/T Feedback	Off	
		On	
	Fan Mode	Auto	
		Silent	
	Dimmer Curve	Linear	
		Square Law	
		Inv SQ Law	
		S Curve	
	Dimmer Speed	Fast	
		Smooth	

MENU	SUBMENU	OPTIONS	
	White Balance	Red	125-255
		Green	125-255
		Blue	125-255
		Red 1	125-255
		Green 1	125-255
		Blue 1	125-255
	
		Red 7	125-255
		Green 7	125-255
		Blue 7	125-255
	Pri/Sec Mode	Secondary	
		Primary	
Display Settings	Display Invert	Off	
		On	
	Temperature Unit	°C	
		°F	
	Display Warning	Off	
		On	
	Fixture Language	English	
		Chinese	
Auto Test			
Manual Test	Pan	0-255	
	Pan Fine	0-255	
	Tilt	0-255	
	Tilt Fine	0-255	
	Zoom	0-255	
	Dimmer	0-255	
	Dimmer Fine	0-255	
	Shutter	0-255	
	Red 1	0-255	
	Green 1	0-255	
	Blue 1	0-255	
	White 1	0-255	
	
	Red 7	0-255	
	Green 7	0-255	
	Blue 7	0-255	
	White 7	0-255	

MENU	SUBMENU	OPTIONS		
	Spe. Func.	0-255		
Show Program	Set Scene Totals	0-50		
	Edit Scene Color	1-50	Red	0-255
			Green	0-255
			Blue	0-255
			White	0-255
	Fade Time	0-255		
	Hold Time	0-255		
	Pan POS	0-255		
	Tilt POS	0-255		
	Zoom POS	0-255		
Information	Temperature			
	Fan State	Head		
		Base		
	Fixture Use Hour			
	LED Use Hour			
	Upgrade File			
	Firmware Version			
Reset Functions	Pan/Tilt Reset	No		
		Yes		
	Effect Reset	No		
		Yes		
	All Reset	No		
		Yes		
Factory Restore	No			
	Yes			

DMX Settings

Enter the control menu and select **DMX Settings**, press ENTER. Use the UP/DOWN button to select **DMX Address**, **Channel Mode** or **No DMX State**.

DMX Address

Select **DMX Address**, press ENTER.

Use UP/DOWN button to select an address, confirm your selection with ENTER.

CHANNEL MODE	DMX ADDRESS
Mode 1 (17)	1-496
Mode 2 (37)	1-476

To exit the menu, press MENU, or wait 30 seconds.

Channel Mode

Select **Channel Mode**, press ENTER.

Use UP/DOWN button to select between **Mode 1 (17)** and **Mode 2 (37)**, confirm your selection with ENTER.

To exit the menu, press MENU, or wait 30 seconds.

No DMX State

Select **No DMX State**, press ENTER.

Use UP/DOWN button to select one of the following status:

Hold (The device continues to operate in the current mode with the last active DMX values until the signal returns)

Blackout (Fixture blacks out if DMX signal stops)

Pri. Sec. (Primary/Secondary Mode)

Confirm your selection with ENTER.

To exit the menu, press MENU, or wait 30 seconds.

Fixture Settings

Enter the control menu and select **Fixture Settings**, press ENTER. Use the UP/DOWN button to select **Pan Invert**, **Tilt Invert**, **P/T Feedback**, **Fan Mode**, **Dimmer Curve**, **Dimmer Speed**, **White Balance** or **Pri/Sec Mode**.

Pan Invert

Select **Pan Invert**, press ENTER.

Use UP/DOWN button to select **No** (pan invert deactivated) or **Yes** (pan invert activated), confirm your selection with ENTER.

To exit the menu, press MENU, or wait 30 seconds.

Tilt Invert

Select **Tilt Invert**, press ENTER.

Use UP/DOWN button to select **No** (tilt invert deactivated) or **Yes** (tilt invert activated), confirm your selection with ENTER.

To exit the menu, press MENU, or wait 30 seconds.

P/T Feedback

Select **P/T Feedback**, press ENTER.

Use UP/DOWN button to select **Off** (pan/tilt feedback deactivated) or **On** (pan/tilt feedback activated), confirm your selection with ENTER.

To exit the menu, press MENU, or wait 30 seconds.

Fan Mode

Select **Fan Mode**, press ENTER.

Use UP/DOWN button to select **Auto** or **Silent**, confirm your selection with ENTER.

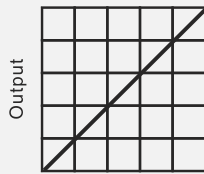
To exit the menu, press MENU, or wait 30 seconds.

Dimmer Curve

Select **Dimmer Curve**, press ENTER.

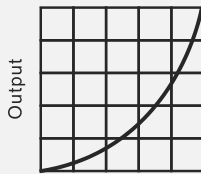
Use UP/DOWN button to select **Linear**, **Square Law**, **Inv SQ Law** or **S Curve**, confirm your selection with ENTER.

Dimmer Modes



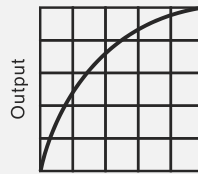
DMX %

Optically Linear



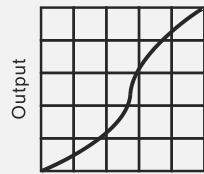
DMX %

Square Law



DMX %

Inverse Square Law



DMX %

S-curve

To exit the menu, press MENU, or wait 30 seconds.

Dimmer Speed

Select **Dimmer Speed**, press ENTER.

Use UP/DOWN button to select **Fast** or **Smooth**, confirm your selection with ENTER.

To exit the menu, press MENU, or wait 30 seconds.

White Balance

Select **White Balance**, press ENTER.

Use UP/DOWN button to select **Red**, **Green**, **Blue**, **Red 1**, **Green 1**, **Blue 1** or **Red 7**, **Green 7**, **Blue 7**, confirm your selection with ENTER.

Use UP/DOWN button to select a value between **125** and **255**, confirm your selection with ENTER.

To exit the menu, press MENU, or wait 30 seconds.

Pri/Sec Mode

Select **Pri/Sec Mode**, press ENTER.

Use UP/DOWN button to select **Secondary** or **Primary**, confirm your selection with ENTER.

To exit the menu, press MENU, or wait 30 seconds.

Display Settings

Enter the control menu and select **Display Settings**, press ENTER. Use the UP/DOWN button to select **Display Invert**, **Temperature Unit**, **Display Warning** or **Fixture Language**.

Display Invert

Select **Display Invert**, press ENTER.

Use UP/DOWN button to select **Off** (display normal) or **On** (display inverted), confirm your selection with ENTER.

To exit the menu, press MENU, or wait 30 seconds.

Temperature Unit

Select **Temperature Unit**, press ENTER.

Use UP/DOWN button to select **°C** or **°F**, confirm your selection with ENTER.

To exit the menu, press MENU, or wait 30 seconds.

Display Warning

Select **Display Warning**, press ENTER.

Use UP/DOWN button to select **Off** or **On**, confirm your selection with ENTER.

To exit the menu, press MENU, or wait 30 seconds.

Fixture Language

Select **Fixture Language**, press ENTER.

Use UP/DOWN button to select **English** or **Chinese**, confirm your selection with ENTER.

To exit the menu, press MENU, or wait 30 seconds.

Auto Test

Select **Auto Test**, press ENTER.

The device immediately performs an automatic self-test.

To end the automatic self-test and exit the menu, press MENU, or wait 30 seconds.

Manual Test

Select **Manual Test**, press ENTER.

Use UP/DOWN button to select the channel for which the manual test is to be performed, confirm your selection with ENTER.

Use UP/DOWN button to select a value, confirm your selection with ENTER.

To exit the menu, press MENU, or wait 30 seconds.

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

Show Program

Enter the control menu and select **Show Program**, press ENTER. Use the UP/DOWN button to select **Set Scene Totals**, **Edit Scene Color**, **Fade Time**, **Hold Time**, **Pan POS**, **Tilt POS** or **Zoom POS**.

Set Scene Totals

Select **Set Scene Totals**, press ENTER.

Use UP/DOWN button to select a value between **0** and **50**, confirm your selection with ENTER.

To exit the menu, press MENU, or wait 30 seconds.

Edit Scene Color

Select **Edit Scene Color**, press ENTER.

Use UP/DOWN button to select a value between **1** and **50**, confirm your selection with ENTER.

Use UP/DOWN button to select **Red**, **Green**, **Blue** or **White**, confirm your selection with ENTER.

Use UP/DOWN button to select a value between **0** and **255**, confirm your selection with ENTER.

To exit the menu, press MENU, or wait 30 seconds.

Fade Time

Select **Fade Time**, press ENTER.

Use UP/DOWN button to select a value between **0** and **255**, confirm your selection with ENTER.

To exit the menu, press MENU, or wait 30 seconds.

Hold Time

Select **Hold Time**, press ENTER.

Use UP/DOWN button to select a value between **0** and **255**, confirm your selection with ENTER.

To exit the menu, press MENU, or wait 30 seconds.

Pan POS

Select **Pan POS**, press ENTER.

Use UP/DOWN button to select a value between **0** and **255**, confirm your selection with ENTER.

To exit the menu, press MENU, or wait 30 seconds.

Tilt POS

Select **Tilt POS**, press ENTER.

Use UP/DOWN button to select a value between **0** and **255**, confirm your selection with ENTER.

To exit the menu, press MENU, or wait 30 seconds.

Zoom POS

Select **Zoom POS**, press ENTER.

Use UP/DOWN button to select a value between **0** and **255**, confirm your selection with ENTER.

To exit the menu, press MENU, or wait 30 seconds.

Information

Enter the control menu and select **Information**, press ENTER. Use the UP/DOWN button to select **Temperature**, **Fan State**, **Fixture Use Hour**, **LED Use Hour**, **Upgrade File** or **Firmware Version**.

Temperature

Select **Temperature**, press ENTER.
The device temperature is displayed.
To exit the menu, press MENU, or wait 30 seconds.

Fan State

Select **Fan State**, press ENTER.
The fan status is displayed.
To exit the menu, press MENU, or wait 30 seconds.

Fixture Use Hour

Select **Fixture Use Hour**, press ENTER.
The operating hours is displayed.
To exit the menu, press MENU, or wait 30 seconds.

LED Use Hour

Select **LED Use Hour**, press ENTER.
The LED operating hours is displayed.
To exit the menu, press MENU, or wait 30 seconds.

Upgrade File

Select **Upgrade File**, press ENTER.
The upgrade file is displayed.
To exit the menu, press MENU, or wait 30 seconds.

Firmware Version

Select **Firmware Version**, press ENTER.
The firmware version is displayed.
To exit the menu, press MENU, or wait 30 seconds.

Reset Functions

Enter the control menu and select **Reset Functions**, press ENTER. Use the UP/DOWN button to select **Pan/Tilt Reset**, **Effect Reset** or **All Reset**.

Pan/Tilt Reset

Select **Pan/Tilt Reset**, press ENTER.

Use UP/DOWN button to select **No** or **Yes** (the device will run built-in program to reset pan/tilt to their home positions), confirm your selection with ENTER.

To exit the menu, press MENU, or wait 30 seconds.

Effect Reset

Select **Effect Reset**, press ENTER.

Use UP/DOWN button to select **No** or **Yes** (the device will run built-in program to reset effect to their home positions), confirm your selection with ENTER.

To exit the menu, press MENU, or wait 30 seconds.

All Reset

Select **All Reset**, press ENTER.

Use UP/DOWN button to select **No** or **Yes** (the device will run built-in program to reset all to their home positions), confirm your selection with ENTER.

To exit the menu, press MENU, or wait 30 seconds.

Factory Restore

Select **Factory Restore**, press ENTER.

If you wish to reset the device to the factory settings, select **Yes**. If you do not wish to reset anything, select **No**. Confirm your selection with ENTER.

To exit the menu, press MENU, or wait 30 seconds.

RDM functions: Certain menus of the device and functions can be called up via the RDM protocol.

The parameter IDs are implemented as follows for different commands:

Parameter ID	Command 'Discovery'	Command 'Set'	Command 'Get'
DISC_UNIQUE_BRANCH	✓		
DISC_MUTE	✓		
DISC_UN_MUTE	✓		
DEVICE_INFO			✓
SUPPORTED_PARAMETERS			✓
SOFTWARE_VERSION_LABEL			✓
DMX_START_ADDRESS		✓	✓
IDENTIFY_DEVICE		✓	✓
DEVICE_MODEL_DESCRIPTION			✓
PARAMETER_DESCRIPTION			✓
MANUFACTURER_LABEL			✓
DEVICE_LABEL		✓	✓
FACTORY_DEFAULTS		✓	✓
BOOT_SOFTWARE_VERSION_ID			✓
BOOT_SOFTWARE_VERSION_LABEL			✓
DMX_PERSONALITY		✓	✓
DMX_PERSONALITY_DESCRIPTION			✓
SLOT_INFO			✓
SLOT_DESCRIPTION			✓
SENSOR_DEFINITION			✓
SENSOR_VALUE			✓
DEVICE_HOURS			✓
PAN_INVERT		✓	✓
TILT_INVERT		✓	✓
RESET_DEVICE		✓	

✓ -Command implemented for the respective parameter ID

5.2 Home Position Adjustment

- ▶ To access the control menus, press the [MENU] button.
- ▶ To access the offset menus, long-press the [ENTER] button.
- ▶ Navigate the offset menus, using the [ENTER], [▲ UP] and [▼ DOWN] buttons.
- ▶ To select a menu option or to confirm a selection, press the [ENTER] button.
- ▶ To return to a higher level in the menu structure without making a change, press the [MENU] button, or wait 30 seconds.

OFFSET MENU	VALUES
Pan	-128~127
Tilt	-128~127
Zoom	-128~127
Red	28~1000
Green	20~1000
Blue	20~1000
White	23~1000
Red 1	28~1000
.....
Red 7	28~1000
Green 1	20~1000
.....
Green 7	20~1000
Blue 1	20~1000
.....
Blue 7	20~1000
White 1	23~1000
.....
White 7	23~1000

Pan

Select **Pan**, press ENTER.

Use UP/DOWN button to select a value between -128 and 127, confirm your selection with ENTER.

To exit the offset menu, press MENU, or wait 30 seconds.

Tilt

Select **Tilt**, press ENTER.

Use UP/DOWN button to select a value between -128 and 127, confirm your selection with ENTER.

To exit the offset menu, press MENU, or wait 30 seconds.

Zoom

Select **Zoom**, press ENTER.

Use UP/DOWN button to select a value between -128 and 127, confirm your selection with ENTER.

To exit the offset menu, press MENU, or wait 30 seconds.

Red

Select **Red**, press ENTER.

Use UP/DOWN button to select a value between 28 and 1000, confirm your selection with ENTER.

To exit the offset menu, press MENU, or wait 30 seconds.

Green

Select **Green**, press ENTER.

Use UP/DOWN button to select a value between 20 and 1000, confirm your selection with ENTER.

To exit the offset menu, press MENU, or wait 30 seconds.

Blue

Select **Blue**, press ENTER.

Use UP/DOWN button to select a value between 20 and 1000, confirm your selection with ENTER.

To exit the offset menu, press MENU, or wait 30 seconds.

White

Select **White**, press ENTER.

Use UP/DOWN button to select a value between 23 and 1000, confirm your selection with ENTER.

To exit the offset menu, press MENU, or wait 30 seconds.

Red 1

Select **Red 1**, press ENTER.

Use UP/DOWN button to select a value between 28 and 1000, confirm your selection with ENTER.

To exit the offset menu, press MENU, or wait 30 seconds.

.....

Red 7

Select **Red 7**, press ENTER.

Use UP/DOWN button to select a value between 28 and 1000, confirm your selection with ENTER.

To exit the offset menu, press MENU, or wait 30 seconds.

Green 1

Select **Green 1**, press ENTER.

Use UP/DOWN button to select a value between 20 and 1000, confirm your selection with ENTER.

To exit the offset menu, press MENU, or wait 30 seconds.

.....

Green 7

Select **Green 7**, press ENTER.

Use UP/DOWN button to select a value between 20 and 1000, confirm your selection with ENTER.

To exit the offset menu, press MENU, or wait 30 seconds.

Blue 1

Select **Blue 1**, press ENTER.

Use UP/DOWN button to select a value between 20 and 1000, confirm your selection with ENTER.

To exit the offset menu, press MENU, or wait 30 seconds.

.....

Blue 7

Select **Blue 7**, press ENTER.

Use UP/DOWN button to select a value between 20 and 1000, confirm your selection with ENTER.

To exit the offset menu, press MENU, or wait 30 seconds.

White 1

Select **White 1**, press ENTER.

Use UP/DOWN button to select a value between 23 and 1000, confirm your selection with ENTER.

To exit the offset menu, press MENU, or wait 30 seconds.

.....

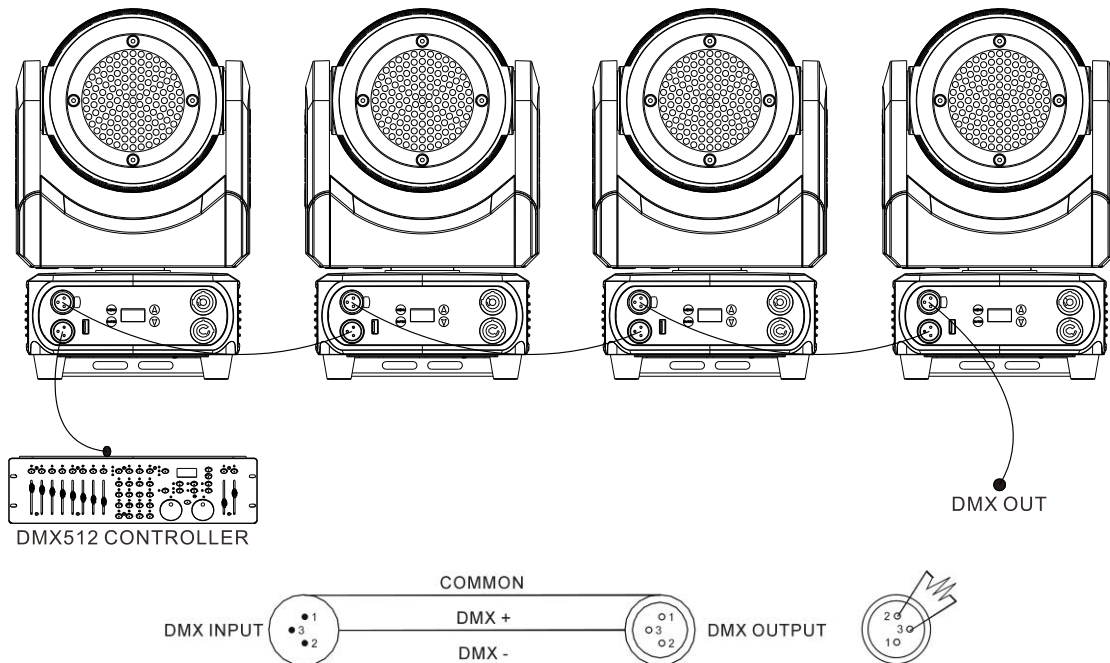
White 7

Select **White 7**, press ENTER.

Use UP/DOWN button to select a value between 23 and 1000, confirm your selection with ENTER.

To exit the offset menu, press MENU, or wait 30 seconds.

6.1 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.

6.2 Address Setting

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

Press the MENU button to access the control menus, 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 show on the display. Use the UP/DOWN button to adjust the address between 001 and 512, press the ENTER button to store. To exit the menu, press MENU, or wait 30 seconds.

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
17 channels	1	18	35	52
37 channels	1	38	75	112

6.3 DMX512 Configuration

Please control the fixture by referring to the configurations below.

Attentions:

- ▶ The unit will maintain the last condition until reset if you cut-off the DMX signal.
- ▶ 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°→230°
4	000-255	TILT FINE
5	000-255	ZOOM Narrow→Wide

6	000-255	DIMMER 0%→100%
7	000-255	DIMMER FINE
8	000-007 008-015 016-131 132-139 140-181 182-189 190-231 232-239 240-247 248-255	STROBE Close Open Strobe from Slow to Fast Open Fast Close Slow Open from Slow to Fast Open Fast Open Slow Close from Slow to Fast Open Random Strobe from Slow to Fast Open
9	000-255	RED 0%→100%
10	000-255	GREEN 0%→100%
11	000-255	BLUE 0%→100%
12	000-255	WHITE 0%→100%
13	000 001-004 005-009 010-013 014-018 019-022 023-027 028-031 032-036 037-040 041-045 046-049 050-054 055-058 059-063 064-067 068-072 073-076 077-081 082-085 086-090 091-094 095-099	CTO Null 8000K 7900K 7800K 7700K 7600K 7500K 7400K 7300K 7200K 7100K 7000K 6900K 6800K 6700K 6600K 6500K 6400K 6300K 6200K 6100K 6000K 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
14	COLOR MACRO	
	000-007	Null
	008-011	Color 1
	012-015	Color 2
	016-019	Color 3
	020-023	Color 4
	024-027	Color 5
	028-031	Color 6
	032-035	Color 7
	036-039	Color 8
	040-043	Color 9
	044-047	Color 10
	048-051	Color 11

	052-055	Color 12
	056-059	Color 13
	060-063	Color 14
	064-067	Color 15
	068-071	Color 16
	072-075	Color 17
	076-079	Color 18
	080-083	Color 19
	084-087	Color 20
	088-091	Color 21
	092-095	Color 22
	096-099	Color 23
	100-103	Color 24
	104-107	Color 25
	108-111	Color 26
	112-115	Color 27
	116-119	Color 28
	120-123	Color 29
	124-127	Color 30
	128-131	Color 31
	132-135	Color 32
	136-165	Clockwise Rotation, Fast to Slow
	166-195	Counter-Clockwise Rotation, Slow to Fast
	196-205	Red→Green Fast to Slow
	206-215	Red→Blue Fast to Slow
	216-225	Red→White Fast to Slow
	226-235	Green→Blue Fast to Slow
	236-245	Green→White Fast to Slow
	246-255	Blue→White Fast to Slow
15		PIXEL SELECT
	000-003	Open
	004-007	Pattern 1
	008-011	Pattern 2
	012-015	Pattern 3
	016-019	Pattern 4
	020-023	Pattern 5
	024-027	Pattern 6
	028-031	Pattern 7
	032-035	Pattern 8
	036-039	Pattern 9
	040-043	Pattern 10
	044-047	Pattern 11
	048-051	Pattern 12
	052-055	Pattern 13
	056-059	Pattern 14
	060-063	Pattern 15
	064-067	Pattern 16

068-071	Pattern 17
072-075	Pattern 18
076-079	Pattern 19
080-083	Pattern 20
084-087	Pattern 21
088-091	Pattern 22
092-095	Pattern 23
096-099	Pattern 24
100-103	Pattern 25
104-107	Pattern 26
108-111	Pattern 27
112-115	Pattern 28
116-119	Pattern 29
120-123	Pattern 30
124-127	Pattern 31
128-131	Pattern 32
132-135	Pattern 33
136-139	Pattern 34
140-143	Pattern 35
144-147	Pattern 36
148-151	Pattern 37
152-155	Pattern 38
156-159	Pattern 39
160-163	Pattern 40
164-167	Pattern 41
168-171	Pattern 42
172-175	Pattern 43
176-179	Pattern 44
180-183	Pattern 45
184-187	Pattern 46
188-191	Pattern 47
192-195	Pattern 48
196-199	Pattern 49
200-203	Pattern 50
204-207	Pattern 51
208-211	Pattern 52
212-215	Pattern 53
216-219	Pattern 54
220-223	Pattern 55
224-227	Pattern 56
228-231	Pattern 57
232-235	Pattern 58
236-239	Pattern 59
240-243	Pattern 60
244-247	Random (Pattern 1-7)
248-251	Pattern 61
252-255	Open

16	000-031	PIXEL ROTATION
	032-091	Null
	092-101	Clockwise Rotation, Fast to Slow
	102-161	Null
	162-255	Counter-Clockwise Rotation, Slow to Fast
17	000-079	Null
	080-089	FUNCTION
	090-099	Null
	100-139	Dimmer Speed: Smooth
	140-149	Dimmer Speed: Fast
	150-159	Null
	160-199	Pan/Tilt Reset
	200-209	Effect Reset
	210-255	Null
		Reset All
		Null

































































37 Channels (Mode 2):

CHANNEL	VALUE	FUNCTION
1	000-255	PAN 0°→540°
2	000-255	PAN FINE
3	000-255	TILT 0°→230°
4	000-255	TILT FINE
5	000-255	ZOOM Narrow→Wide
6	000-255	DIMMER 0%→100%
7	000-255	DIMMER FINE
8	000-007 008-015 016-131 132-139 140-181 182-189 190-231 232-239 240-247 248-255	STROBE Close Open Strobe from Slow to Fast Open Fast Close Slow Open from Slow to Fast Open Fast Open Slow Close from Slow to Fast Open Random Strobe from Slow to Fast Open
9	000-255	RED 1 0%→100%

10	000-255	GREEN 1 0%→100%
11	000-255	BLUE 1 0%→100%
12	000-255	WHITE 1 0%→100%
13	000-255	RED 2 0%→100%
14	000-255	GREEN 2 0%→100%
15	000-255	BLUE 2 0%→100%
16	000-255	WHITE 2 0%→100%
17	000-255	RED 3 0%→100%
18	000-255	GREEN 3 0%→100%
19	000-255	BLUE 3 0%→100%
20	000-255	WHITE 3 0%→100%
21	000-255	RED 4 0%→100%
22	000-255	GREEN 4 0%→100%
23	000-255	BLUE 4 0%→100%
24	000-255	WHITE 4 0%→100%
25	000-255	RED 5 0%→100%
26	000-255	GREEN 5 0%→100%
27	000-255	BLUE 5 0%→100%
28	000-255	WHITE 5 0%→100%
29	000-255	RED 6 0%→100%
30	000-255	GREEN 6 0%→100%
31	000-255	BLUE 6 0%→100%

32	000-255	WHITE 6 0%→100%
33	000-255	RED 7 0%→100%
34	000-255	GREEN 7 0%→100%
35	000-255	BLUE 7 0%→100%
36	000-255	WHITE 7 0%→100%
37	000-079 080-089 090-099 100-139 140-149 150-159 160-199 200-209 210-255	FUNCTION Null Dimmer Speed: Smooth Dimmer Speed: Fast Null Pan/Tilt Reset Effect Reset Null Reset All Null

LED PIXEL SELECT FOR 17-CH:

 Value: 0-3	 Value: 4-7	 Value: 8-11	 Value: 12-15	 Value: 16-19	 Value: 20-23	 Value: 24-27	 Value: 28-31
 Value: 32-35	 Value: 36-39	 Value: 40-43	 Value: 44-47	 Value: 48-51	 Value: 52-55	 Value: 56-59	 Value: 60-63
 Value: 64-67	 Value: 68-71	 Value: 72-75	 Value: 76-79	 Value: 80-83	 Value: 84-87	 Value: 88-91	 Value: 92-95
 Value: 96-99	 Value: 100-103	 Value: 104-107	 Value: 108-111	 Value: 112-115	 Value: 116-119	 Value: 120-123	 Value: 124-127
 Value: 128-131	 Value: 132-135	 Value: 136-139	 Value: 140-143	 Value: 144-147	 Value: 148-151	 Value: 152-155	 Value: 156-159
 Value: 160-163	 Value: 164-167	 Value: 168-171	 Value: 172-175	 Value: 176-179	 Value: 180-183	 Value: 184-187	 Value: 188-191
 Value: 192-195	 Value: 196-199	 Value: 200-203	 Value: 204-207	 Value: 208-211	 Value: 212-215	 Value: 216-219	 Value: 220-223
 Value: 224-227	 Value: 228-231	 Value: 232-235	 Value: 236-239	 Value: 240-243	 Value: 244-247	 Value: 248-251	 Value: 252-255

07/ Error Information

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

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.

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 damaged.

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.

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.

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.

Zoom 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.

Base Fan / Head Fan Start Err

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.

Base Fan / Head Fan Stop Err

Check whether the fan circuit on the motherboard breaks down.
Check whether the component is damaged.

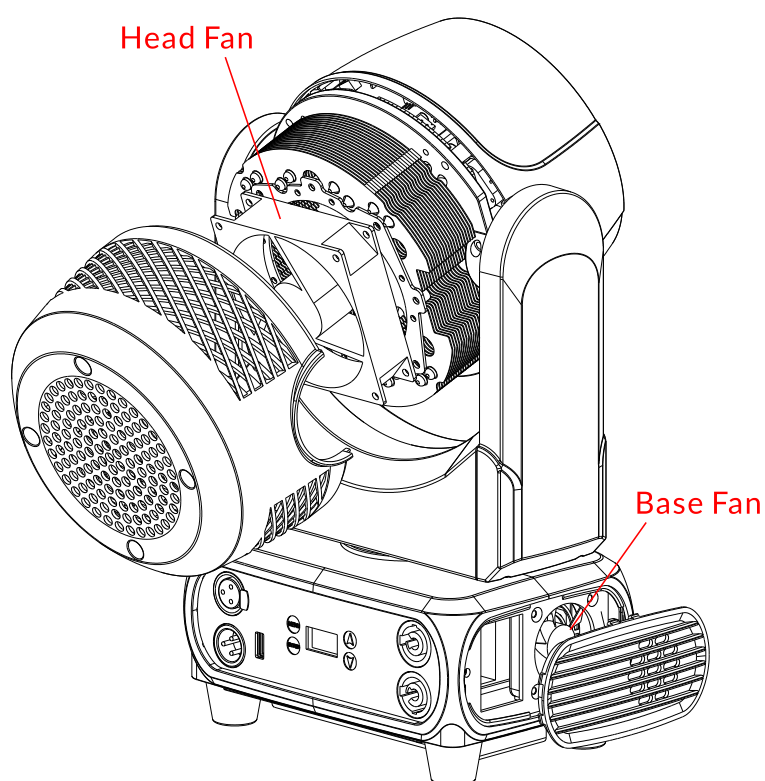
Base Fan / Head Fan Slow Err

Check whether the fan is out of order.
Check whether there are obstacles in the fan operating range.

Base Fan / Head Fan Fast Err

Check whether the fan is out of order.
Check whether the fan circuit on the motherboard breaks down.

The position of each fan of the fixture:



08/ 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

- ▶ Check the connected power.
- ▶ Measure the voltage.
- ▶ Check the power indicator to see whether it can be lit up or not.

B. Not responding to the DMX controller

- ▶ Check whether the DMX connectors and the DMX cables are connected correctly.
- ▶ Check whether the DMX address is correctly set.
- ▶ If the intermittent DMX signal problem occurs, check whether the XLR socket and the signal cable are well connected.
- ▶ Try it with another DMX controller.
- ▶ 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

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

09/ Fixture Cleaning

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

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

Declaration of Conformity

We declare that our products (lighting equipments) comply with the following specification and bears CE mark in accordance with the provision of the Electromagnetic Compatibility (EMC) Directive 2014/30/EU.

EN 55032: 2015; EN IEC 61000-3-2: 2019;
EN 61000-3-3: 2013; EN 55035: 2017.

& Harmonized Standard

EN 60598-1: 2015;
EN 60598-2-17: 2018; EN 62493: 2015.
Safety of household and similar electrical appliances
Part 1: General requirements and tests



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