ACME ®

GLAMOUR
700Z

CONTENTS

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.
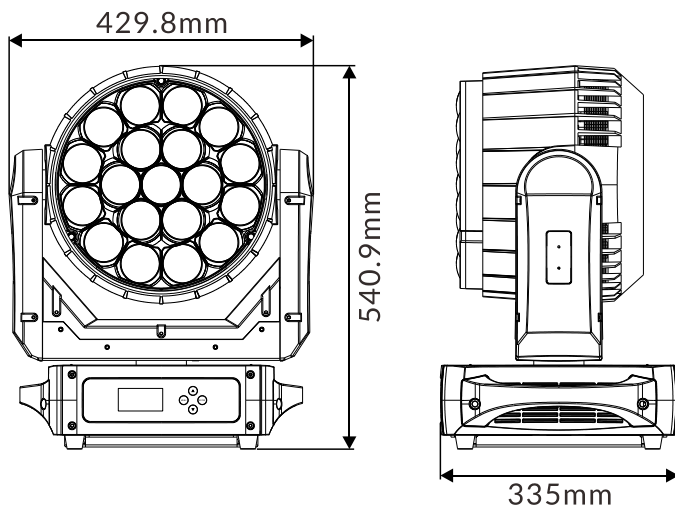
Important:

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℃. 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.
- 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.
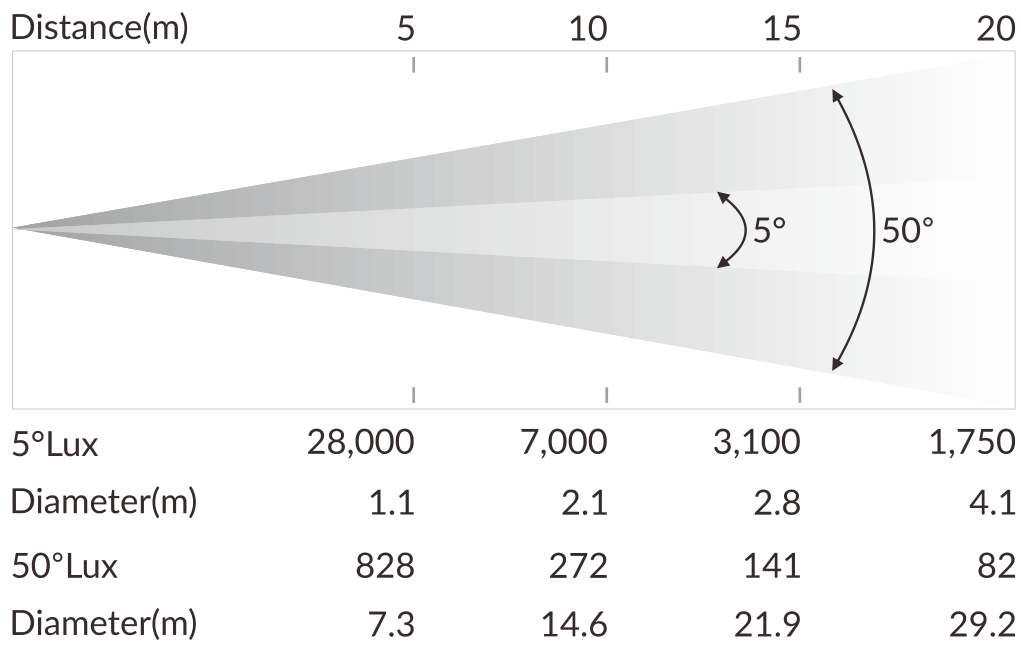
- DO NOT touch any wire during operation as there might be a hazard of electric shock.

- Avoid entanglement of the power cord with other wires.

- The minimum distance to objects/surface must be more than 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.

Power Voltage	100-240V~ 50/60Hz	
Power Consumption	680W	
Light Source	19x40W RGBW LED	
Zoom Range	5°-50°	
Dimmer/Strobe	0-100% smooth dimming; outstanding strobe effect with variable speed	
Movement	Pan	540°
	Tilt	220°
	Pan/Tilt Resolution	16 bit
	Automatic pan/tilt position correction	
Control	DMX Channel	15/27/17/15+ Channels
	Control Mode	DMX512
		RDM
	Firmware Upgrade	Firmware Upgrade via DMX link
Construction	Display	LCD display
	Data In/Out	3-pin and 5-pin XLR
	Power In/Out	Power Connector in
	Protection Rating	IP20
Features	Electronic linear zoom system	
	Outstanding color mixing effect	
	Ring control	
Dimensions	429.8x335x540.9mm	16.9"x13.2"x21.3"in
Weight	22kgs	48.5lbs

429.8mm

540.9mm

335mm

Photometric Diagram:

Distance(m)	5	10	15	20
5°Lux	28,000	7,000	3,100	1,750
Diameter(m)	1.1	2.1	2.8	4.1
50°Lux	828	272	141	82
Diameter(m)	7.3	14.6	21.9	29.2

5°

50°

03/ Control Panel
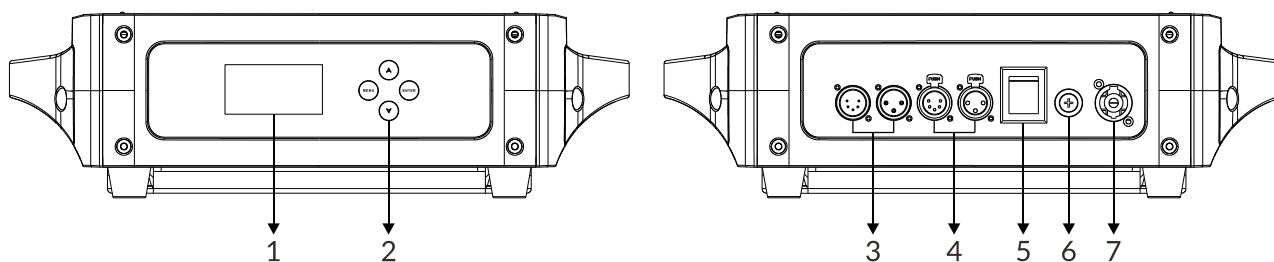
1. Display	To show the various menus and the selected function	
2. Buttons	MENU	To enter into move backward or leave the menu
	▲ UP	To go backward to move up in the menu
	▼ DOWN	To go forward to move down in the menu
	ENTER	To perform the desired functions
3. DMX IN	For DMX512 link, use 3/5-pin XLR cable to link the unit and DMX controller to input DMX signal	
4. DMX OUT	For DMX512 link, use 3/5-pin XLR cable to link the next units to output DMX signal	
5. POWER SWITCH	Turns on/off the power	
6. FUSE(T 15A)	Protects the unit from damage of over current or short circuit	
7. POWER	To connect to supply power	

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 were 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.
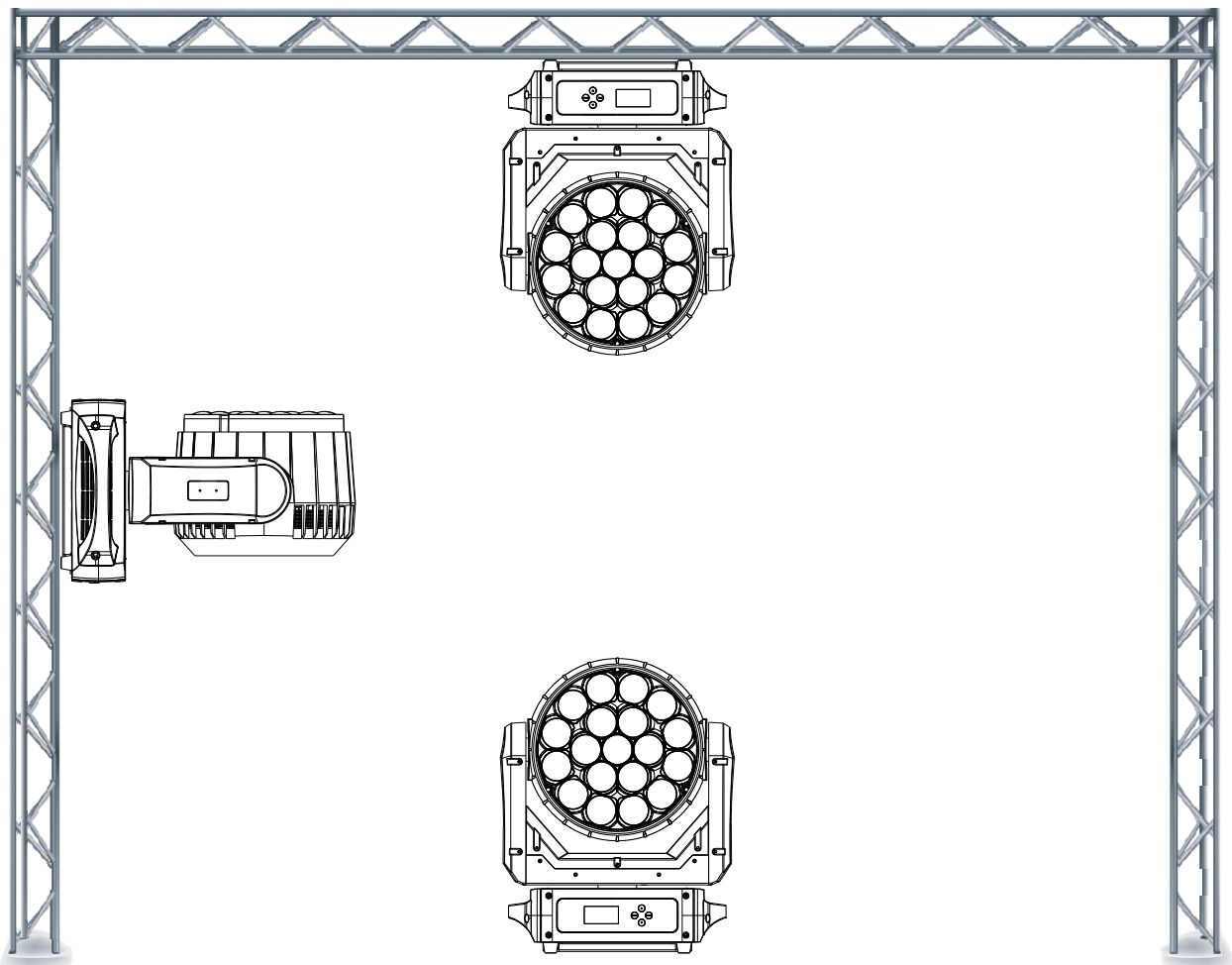
5.1 Main Functions

▶ 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	1-512	(Default=1)
	Channel Mode	Mode 1 (15)	
		Mode 2 (27)	
		Mode 3 (17)	
		Mode 4 (15+)	
	View DMX Value		
Fixture Settings	Pan Invert	No	
		Yes	
	Tilt Invert	No	
		Yes	
	P/T Feedback	No	
		Yes	
	Bl.o P/T Moving	No	
		Yes	
	White Balance	Red	125-255
		Green	125-255
		Blue	125-255
	Cooling Mode	Auto	
		Quiet	
	Dimmer Curve	Square Law	
		Inv SQ Law	
		Liner	
		S Curve	
	Dimmer Speed	Fast	
		Smooth	

MENU	SUBMENU	OPTIONS	
Display Settings	Display Invert	No	
		Yes	
	Backlight Intensity	1-10	(Default=10)
	Temperature Unit	°C	
		°F	
	Language	English	
		Chinese	
Fixture Test	Auto Test		
	Manual Test	Pan	0-255
		Pan Fine	0-255
		Tilt	0-255
		Tilt Fine	0-255
		P/T Speed	0-255
		Function	0-255
		Dimmer	0-255
		Dimmer Fine	0-255
		Shutter	0-255
		Red	0-255
		Green	0-255
		Blue	0-255
		White	0-255
		Color	0-255
		Zoom	0-255
Fixture Information	Fixture Use Hour		
	LED Use Hour	Total LED Hour	
		LED On Hour	
		LED Hours Reset	Password=050
	Firmware Version		
	Error Logs	Fixture Errors	
		Reset Error Log	No
			Yes Password=050
Reset Functions	Pan & Tilt	No	
		Yes	
	Effect	No	
		Yes	
	All	No	
		Yes	
Special Functions	Factory Settings	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 **View DMX Value.**

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 (15)	1-498
Mode 2 (27)	1-486
Mode 3 (17)	1-496
Mode 4 (15+)	1-498

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 (15), Mode 2 (27), Mode 3 (17)** and **Mode 4 (15+)**, confirm your selection with ENTER.

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

View DMX Value

Select **View DMX Value,** press ENTER.

Use UP/DOWN button to select the desired DMX channel, for which the value is to be displayed.

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, Bl.o P/T Moving, White Balance, Cooling Mode, Dimmer Curve** or **Dimmer Speed.**

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 **No** (pan/tilt feedback deactivated) or **Yes** (pan/tilt feedback activated), confirm your selection with ENTER.
>
> To exit the menu, press MENU, or wait 30 seconds.

Bl.o P/T Moving

> Select **Bl.o P/T Moving,** press ENTER.
>
> Use UP/DOWN button to select **No** (blacks out when pan/tilt move deactivated) or **Yes** (blacks out when pan/tilt move activated), 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** or **Blue**, 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.

Cooling Mode

Select **Cooling Mode,** press ENTER.

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

Dimmer Modes

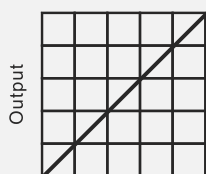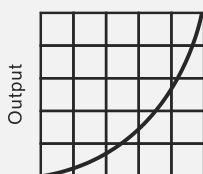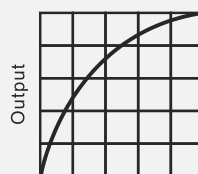| Optically Linear | Square Law | Inverse Square Law | S-curve |
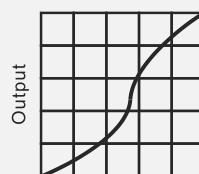
To exit the menu, press MENU, or wait 30 seconds.

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.

Display Settings

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

Display Invert

> Select **Display Invert,** press ENTER.
> Use UP/DOWN button to select **No** (display normal) or **Yes** (display inverted), confirm your selection with ENTER.
> To exit the menu, press MENU, or wait 30 seconds.

Backlight Intensity

> Select **Backlight Intensity,** press ENTER.
> Use UP/DOWN button to select a value between **1** (dark) and **10** (bright), 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.

Language

> Select **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.

Fixture Test

Enter the control menu and select **Fixture Test**, press ENTER. Use the UP/DOWN button to select **Auto Test** or **Manual Test.**

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.)

Fixture Information

Enter the control menu and select **Fixture Information**, press ENTER. Use the UP/DOWN button to select **Fixture Use Hour, LED Use Hour, Firmware Version** or **Error Logs.**

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.

Use UP/DOWN button to select **Total LED Hour** (total time) or **LED On Hour** (current switch-on time), confirm your selection with ENTER.

The total time or current switch-on time is displayed.

Use UP/DOWN button to select **LED Hours Reset**, confirm your selection with ENTER.

Use UP/DOWN button to set the password 050, confirm your selection with ENTER. The LED operating hours is reset.

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.

Error Logs

Select **Error Logs,** press ENTER.

Use UP/DOWN button to select **Fixture Errors**, confirm your selection with ENTER.

The error list is displayed.

Use UP/DOWN button to select **Reset Error Log**, confirm your selection with ENTER.

If you wish to reset the relevant error logs, select **Yes**. If you do not wish to reset anything, select **No**. Confirm your selection with ENTER.

If you select **Yes**, use UP/DOWN button to set the password 050, confirm your selection with ENTER. The relevant error logs are reset.

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, Effect** or **All.**

Pan & Tilt

> Select **Pan & Tilt,** 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

> Select **Effect,** 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

> Select **All,** 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.

Special Functions

Enter the control menu and select **Special Functions**, press ENTER. Use the UP/DOWN button to select **Factory Settings.**

Factory Settings

> Select **Factory Settings,** 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		√	√
BOOT_SOFTWARE_VERSION_ID			√
BOOT_SOFTWARE_VERSION_LABEL			√
DMX_PERSONALITY		√	√
DMX_PERSONALITY_DESCRIPTION			√
SLOT_INFO			√
SLOT_DESCRIPTION			√
SENSOR_DEFINITION			√
SENSOR_VALUE			√
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	0~255

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 0 and 255, confirm your selection with ENTER.

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

6.1 DMX512 Connection

DMX512 CONTROLLER
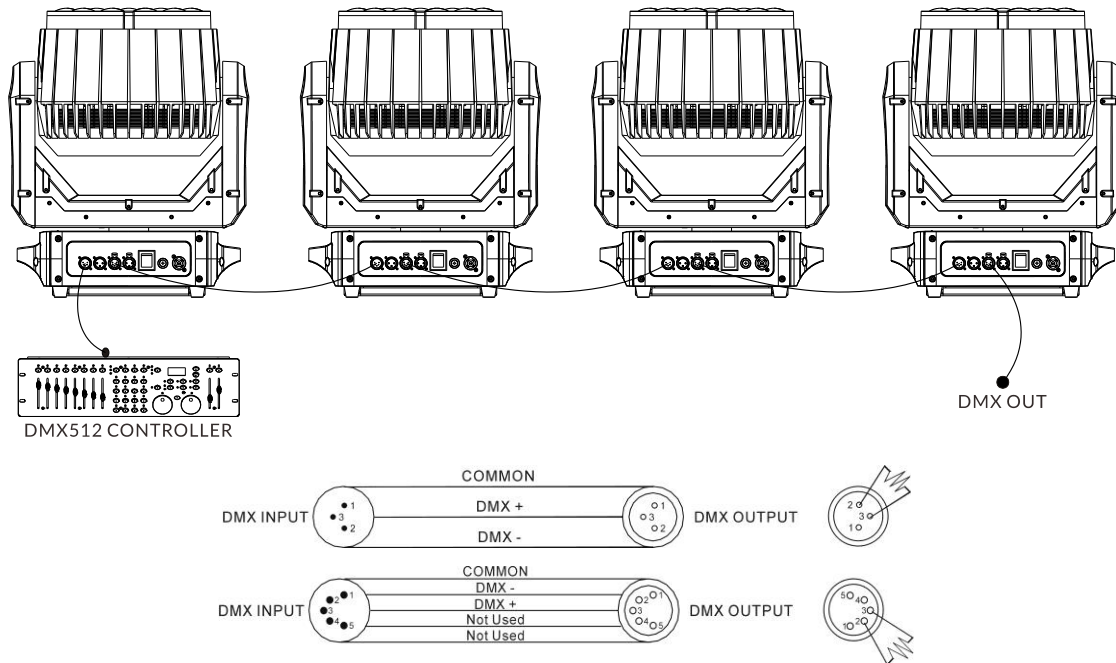
DMX OUT

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
15 channels	1	16	31	46
27 channels	1	28	55	82
17 channels	1	18	35	52
15+ channels	1	16	31	46

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.

15 Channels (Mode 1):

CHANNEL	VALUE	FUNCTION
1	000-255	**PAN** 0°→540°
2	000-255	**PAN FINE**
3	000-255	**TILT** 0°→220°
4	000-255	**TILT FINE**
5	000-255	**PAN/TILT SPEED** Fast to Slow
6	000-009 010-014 015-255	**SPECIAL FUNCTIONS** Null Reset Null
7	000-255	**DIMMER** 0%→100%
8	000-255	**DIMMER FINE**
9	000-019 020-024 025-064 065-069 070-084 085-089 090-104 105-109 110-124 125-129 130-144 145-149 150-164 165-169 170-184 185-189 190-204 205-209 210-224 225-229 230-244 245-255	**SHUTTER** Close Open Strobe 1: fast→slow Open Strobe 2: opening pulse, fast→slow Open Strobe 3: closing pulse, fast→slow Open Strobe 4: random strobe, fast→slow Open Strobe 5: random closing pulse, fast→slow Open Strobe 6: random opening pulse, fast→slow Open Strobe 7: burst pulse, fast→slow Open Strobe 8: random burst pulse, fast→slow Open Strobe 9: sine wave, fast→slow Open Strobe 10: burst, fast→slow Open
10	000-255	**RED** 0%→100%
11	000-255	**GREEN** 0%→100%

12		**BLUE**
	000-255	0%→100%
13		**WHITE**
	000-255	0%→100%
14		**COLOR MACRO**
	000-009	Null
	010-014	Color 1
	015-019	Color 2
	020-024	Color 3
	025-029	Color 4
	030-034	Color 5
	035-039	Color 6
	040-044	Color 7
	045-049	Color 8
	050-054	Color 9
	055-059	Color 10
	060-064	Color 11
	065-069	Color 12
	070-074	Color 13
	075-079	Color 14
	080-084	Color 15
	085-089	Color 16
	090-094	Color 17
	095-099	Color 18
	100-104	Color 19
	105-109	Color 20
	110-114	Color 21
	115-119	Color 22
	120-124	Color 23
	125-129	Color 24
	130-134	Color 25
	135-139	Color 26
	140-144	Color 27
	145-149	Color 28
	150-154	Color 29
	155-159	Color 30
	160-164	Color 31
	165-169	Color 32
	170-174	Color 33
	175-179	Open
	180-201	Color 33→Color 1
	202-207	Stop
	208-229	Color 1→Color 33
	230-234	Open
	235-239	Fast
	240-244	Medium
	245-249	Slow

CHANNEL	VALUE	FUNCTION
	250-255	Open
15	000-255	**ZOOM** Wide→Narrow

27 Channels (Mode 2):

CHANNEL	VALUE	FUNCTION
1	000-255	**PAN** 0°→540°
2	000-255	**PAN FINE**
3	000-255	**TILT** 0°→220°
4	000-255	**TILT FINE**
5	000-255	**PAN/TILT SPEED** Fast to Slow
6	000-255	**ZOOM** Wide→Narrow
7	000-009 010-014 015-255	**SPECIAL FUNCTIONS** Null Reset Null
8	000-255	**DIMMER** 0%→100%
9	000-255	**DIMMER FINE**
10	000-019 020-024 025-064 065-069 070-084 085-089 090-104 105-109 110-124 125-129 130-144 145-149 150-164 165-169 170-184 185-189 190-204 205-209	**SHUTTER** Close Open Strobe 1: fast→slow Open Strobe 2: opening pulse, fast→slow Open Strobe 3: closing pulse, fast→slow Open Strobe 4: random strobe, fast→slow Open Strobe 5: random closing pulse, fast→slow Open Strobe 6: random opening pulse, fast→slow Open Strobe 7: burst pulse, fast→slow Open Strobe 8: random burst pulse, fast→slow Open

	210-224	Strobe 9: sine wave, fast→slow
	225-229	Open
	230-244	Strobe 10: burst, fast→slow
	245-255	Open
11		**RED 1**
	000-255	0%→100%
12		**GREEN 1**
	000-255	0%→100%
13		**BLUE 1**
	000-255	0%→100%
14		**WHITE 1**
	000-255	0%→100%
15		**COLOR MACRO 1**
	000-009	Null
	010-017	Color 1
	018-024	Color 2
	025-032	Color 3
	033-039	Color 4
	040-047	Color 5
	048-054	Color 6
	055-061	Color 7
	062-069	Color 8
	070-076	Color 9
	077-084	Color 10
	085-091	Color 11
	092-099	Color 12
	100-106	Color 13
	107-113	Color 14
	114-121	Color 15
	122-128	Color 16
	129-136	Color 17
	137-143	Color 18
	144-151	Color 19
	152-158	Color 20
	159-165	Color 21
	166-173	Color 22
	174-180	Color 23
	181-188	Color 24
	189-195	Color 25
	196-203	Color 26
	204-210	Color 27
	211-217	Color 28
	218-225	Color 29
	226-232	Color 30
	233-240	Color 31
	241-247	Color 32
	248-255	Color 33

16	000-255	**RED 2** 0%→100%
17	000-255	**GREEN 2** 0%→100%
18	000-255	**BLUE 2** 0%→100%
19	000-255	**WHITE 2** 0%→100%
20	000-255	**COLOR MACRO 2** (Same as COLOR MACRO 1)
21	000-255	**RED 3** 0%→100%
22	000-255	**GREEN 3** 0%→100%
23	000-255	**BLUE 3** 0%→100%
24	000-255	**WHITE 3** 0%→100%
25	000-255	**COLOR MACRO 3** (Same as COLOR MACRO 1)
26	000-007 008-022 023-037 038-052 053-067 068-082 083-097 098-112 113-127 128-142 143-157 158-172 173-187 188-202 203-217 218-232 233-247 248-255	**MACRO EFFECT SELECT** Null Built-in Effect 1 Built-in Effect 2 Built-in Effect 3 Built-in Effect 4 Built-in Effect 5 Built-in Effect 6 Built-in Effect 7 Built-in Effect 8 Built-in Effect 9 Built-in Effect 10 Built-in Effect 11 Built-in Effect 12 Built-in Effect 13 Built-in Effect 14 Built-in Effect 15 Built-in Effect 16 Built-in Effect 17
27	000-255	**MACRO EFFECT SPEED** Slow to Fast

17 Channels (Mode 3):

CHANNEL	VALUE	FUNCTION
1	000-255	**PAN** 0°→540°
2	000-255	**PAN FINE**
3	000-255	**TILT** 0°→220°
4	000-255	**TILT FINE**
5	000-255	**PAN/TILT SPEED** Fast to Slow
6	000-009 010-014 015-255	**SPECIAL FUNCTIONS** Null Reset Null
7	000-255	**DIMMER** 0%→100%
8	000-255	**DIMMER FINE**
9	000-019 020-024 025-064 065-069 070-084 085-089 090-104 105-109 110-124 125-129 130-144 145-149 150-164 165-169 170-184 185-189 190-204 205-209 210-224 225-229 230-244 245-255	**SHUTTER** Close Open Strobe 1: fast→slow Open Strobe 2: opening pulse, fast→slow Open Strobe 3: closing pulse, fast→slow Open Strobe 4: random strobe, fast→slow Open Strobe 5: random closing pulse, fast→slow Open Strobe 6: random opening pulse, fast→slow Open Strobe 7: burst pulse, fast→slow Open Strobe 8: random burst pulse, fast→slow Open Strobe 9: sine wave, fast→slow Open Strobe 10: burst, fast→slow Open
10	000-255	**RED** 0%→100%
11	000-255	**GREEN** 0%→100%

12		**BLUE**
	000-255	0%→100%
13		**WHITE**
	000-255	0%→100%
14		**COLOR MACRO**
	000-009	Null
	010-014	Color 1
	015-019	Color 2
	020-024	Color 3
	025-029	Color 4
	030-034	Color 5
	035-039	Color 6
	040-044	Color 7
	045-049	Color 8
	050-054	Color 9
	055-059	Color 10
	060-064	Color 11
	065-069	Color 12
	070-074	Color 13
	075-079	Color 14
	080-084	Color 15
	085-089	Color 16
	090-094	Color 17
	095-099	Color 18
	100-104	Color 19
	105-109	Color 20
	110-114	Color 21
	115-119	Color 22
	120-124	Color 23
	125-129	Color 24
	130-134	Color 25
	135-139	Color 26
	140-144	Color 27
	145-149	Color 28
	150-154	Color 29
	155-159	Color 30
	160-164	Color 31
	165-169	Color 32
	170-174	Color 33
	175-179	Open
	180-201	Color 33→Color 1
	202-207	Stop
	208-229	Color 1→Color 33
	230-234	Open
	235-239	Fast
	240-244	Medium
	245-249	Slow

	250-255	Open
15		**ZOOM**
	000-255	Wide→Narrow
16		**MACRO EFFECT SELECT**
	000-007	Null
	008-016	Built-in Effect 1
	017-025	Built-in Effect 2
	026-034	Built-in Effect 3
	035-043	Built-in Effect 4
	044-052	Built-in Effect 5
	053-061	Built-in Effect 6
	062-070	Built-in Effect 7
	071-079	Built-in Effect 8
	080-088	Built-in Effect 9
	089-097	Built-in Effect 10
	098-106	Built-in Effect 11
	107-115	Built-in Effect 12
	116-124	Built-in Effect 13
	125-133	Built-in Effect 14
	134-142	Built-in Effect 15
	143-151	Built-in Effect 16
	152-160	Built-in Effect 17
	161-169	Built-in Effect 18
	170-178	Built-in Effect 19
	179-187	Built-in Effect 20
	188-196	Built-in Effect 21
	197-205	Built-in Effect 22
	206-214	Built-in Effect 23
	215-223	Built-in Effect 24
	224-232	Built-in Effect 25
	233-241	Built-in Effect 26
	242-250	Built-in Effect 27
	251-255	Built-in Effect 28
17		**MACRO EFFECT SPEED**
	000-127	Slow to Fast without Fade
	128-255	Slow to Fast with Fade

15+ Channels (Mode 4):

CHANNEL	VALUE	FUNCTION
1	000-255	**PAN** 0°→540°
2	000-255	**PAN FINE**
3	000-255	**TILT** 0°→220°
4	000-255	**TILT FINE**
5	000-255	**PAN/TILT SPEED** Fast to Slow
6	000-009 010-014 015-255	**SPECIAL FUNCTIONS** Null Reset Null
7	000-255	**DIMMER** 0%→100%
8	000-019 020-024 025-064 065-069 070-084 085-089 090-104 105-109 110-124 125-129 130-144 145-149 150-164 165-169 170-184 185-189 190-204 205-209 210-224 225-229 230-244 245-255	**SHUTTER** Close Open Strobe 1: fast→slow Open Strobe 2: opening pulse, fast→slow Open Strobe 3: closing pulse, fast→slow Open Strobe 4: random strobe, fast→slow Open Strobe 5: random closing pulse, fast→slow Open Strobe 6: random opening pulse, fast→slow Open Strobe 7: burst pulse, fast→slow Open Strobe 8: random burst pulse, fast→slow Open Strobe 9: sine wave, fast→slow Open Strobe 10: burst, fast→slow Open
9	000-255	**RED** 0%→100%
10	000-255	**GREEN** 0%→100%
11		**BLUE**

	000-255	0%→100%
12		**WHITE**
	000-255	0%→100%
13		**COLOR MACRO**
	000-009	Null
	010-017	Color 1
	018-024	Color 2
	025-032	Color 3
	033-039	Color 4
	040-047	Color 5
	048-054	Color 6
	055-061	Color 7
	062-069	Color 8
	070-076	Color 9
	077-084	Color 10
	085-091	Color 11
	092-099	Color 12
	100-106	Color 13
	107-113	Color 14
	114-121	Color 15
	122-128	Color 16
	129-136	Color 17
	137-143	Color 18
	144-151	Color 19
	152-158	Color 20
	159-165	Color 21
	166-173	Color 22
	174-180	Color 23
	181-188	Color 24
	189-195	Color 25
	196-203	Color 26
	204-210	Color 27
	211-217	Color 28
	218-225	Color 29
	226-232	Color 30
	233-240	Color 31
	241-247	Color 32
	248-255	Color 33
14		**ZOOM**
	000-255	Wide→Narrow
15		**MACRO EFFECT SELECT**
	000-031	Null
	032-047	Built-in Effect 1
	048-063	Built-in Effect 2
	064-079	Built-in Effect 3
	080-095	Built-in Effect 4
	096-111	Built-in Effect 5

	112-127	Built-in Effect 6
	128-143	Built-in Effect 7, Slow to Fast
	144-159	Built-in Effect 8, Slow to Fast
	160-175	Built-in Effect 9, Slow to Fast
	176-191	Built-in Effect 10, Slow to Fast
	192-207	Built-in Effect 11, Slow to Fast
	208-223	Built-in Effect 12, Slow to Fast
	224-239	Built-in Effect 13, Slow to Fast
	240-255	Built-in Effect 14, Slow to Fast

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 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 damage.

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.

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 and main fuse.

‣ 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 61000-3-2: 2014;
EN 61000-3-3: 2013; EN 55103-2: 2009.

&
Harmonized Standard

EN 60598-1: 2015; EN 60598-2-17: 1989+A2: 1991;
EN 62493: 2015.

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