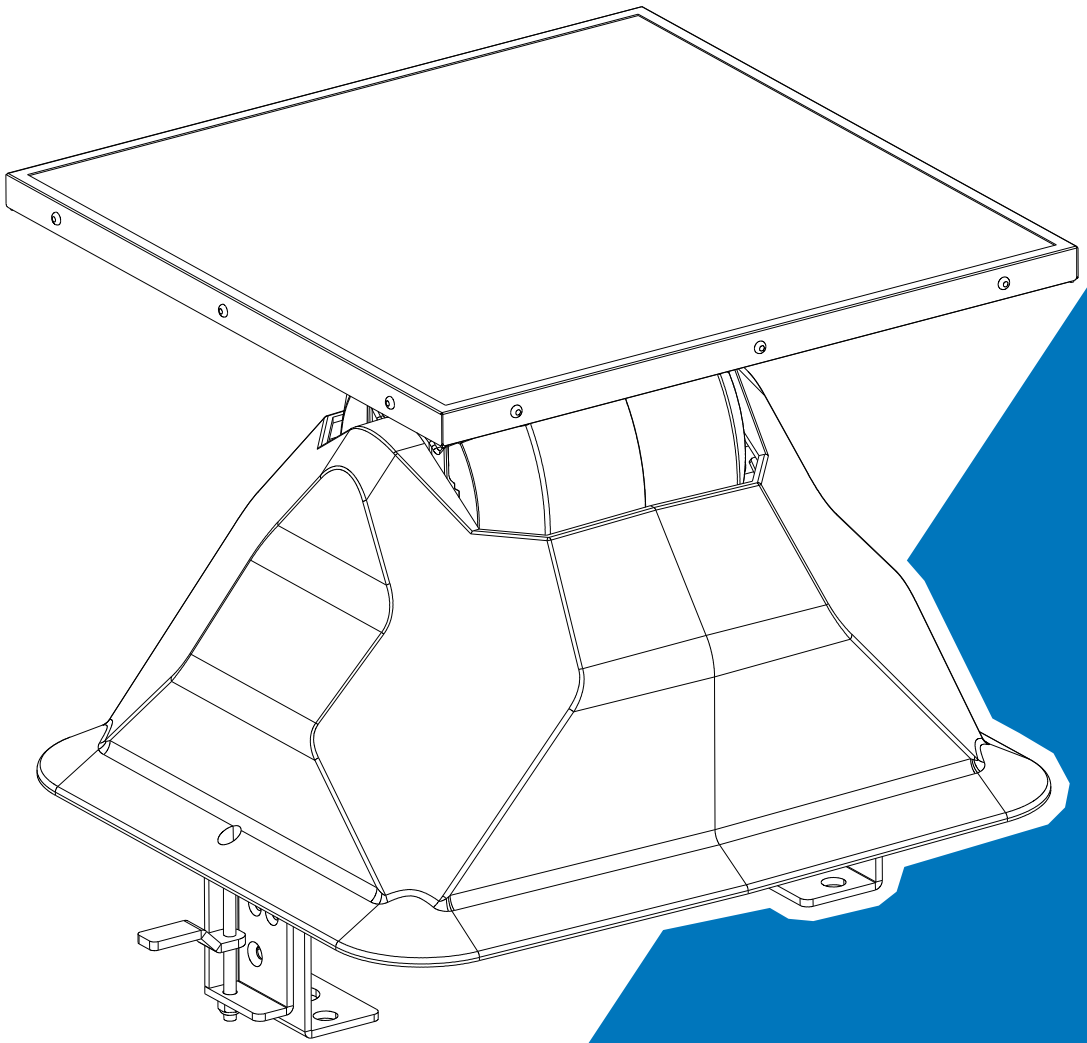
ACME®

BIG BANG



User Manual

Please read the instruction carefully before use

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01/ Safety Information



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

WARNING

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

Important:

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

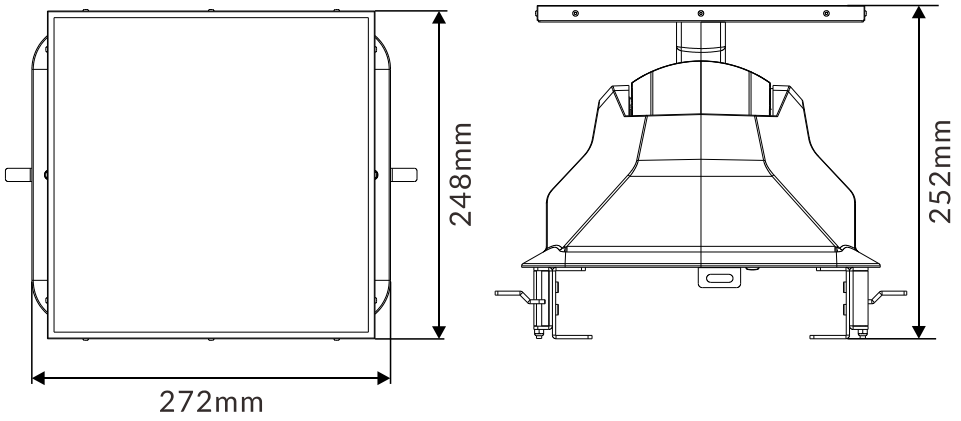
- Unpack and check carefully to ensure that there is no transportation damage before using the unit.
- This product is for indoor use only. Use only in a dry location.
- DO install and operate by qualified operator.
- DO NOT allow children to operate the fixture.
- Use safety chain when fixing the unit. Handle the unit by carrying its base instead of head only.
- The unit must be installed in a location with adequate ventilation, at least 50cm from adjacent surfaces.
- Be sure that no ventilation slots is blocked, otherwise the unit will be overheated.
- Before operation, ensure that you are connecting this product to the proper voltage in accordance with the specifications in this manual or on the product's specification label.
- It's important to ground the yellow/green conductor to earth in order to avoid electric shock.
- Minimum ambient temperature TA: 0˚C. Maximum ambient temperature TA: 40˚C. Do not operate this product at a lower or higher temperature.
- DO NOT connect the device to any dimmer pack.
- Keep flammable materials away from the fixture while operating to avoid fire hazard.
- Make sure the power cord is not crimped or damaged; replace it immediately if damaged.
- Unit's surface temperature may reach up to 75˚C. DO NOT touch the housing bare-handed during its operation.

- Avoid any flammable liquids, water or metal from entering the unit. Once it happens, cut off the mains power immediately.
- DO NOT operate in a dirty or dusty environment. DO clean the fixture regularly.
- DO NOT touch any wire during operation as there might be a hazard of electric shock.
- Avoid entanglement of the power cord with other wires.
- The minimum distance to objects/surface must be more than 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.

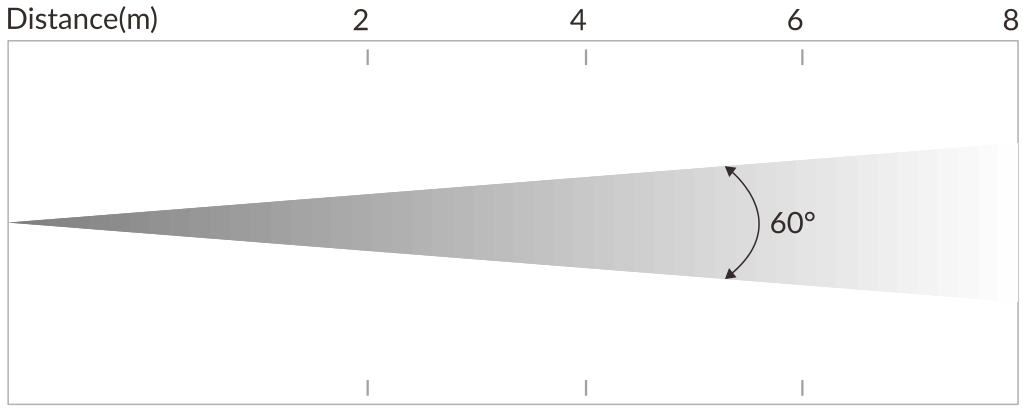
02/ Technical Specifications

AC Power	100-240Vac; 50/60Hz	
Max. Power Consumption	115W	
Light Source	441x0.2W RGB LED	
Beam Angle	60°	
Field Angle	116°	
Movement	Pan	74°
	Tilt	74°
	16 bit movement resolution	
Control and Programming	DMX Channels	156/16
	Protocols	DMX512
		RDM
	Operational Modes	DMX Control
		Sound Active
		Show Mode
	Firmware Update	via DMX
Construction	Display	LCD display
	DMX and RDM Data In/Out	5-pin XLR (optional with 3-pin XLR)
	Power In/Out	Power Connector in
	Protection Rating	IP20
Dynamic Effects	Compact design, light in weight	
	49 RGB LED zones with individual control	
	0-100% continuous dimming and strobe effects	
	Choice of four dimming curves	
	Outstanding color mixing	
	Multiple built-in show modes	
	Intelligent sound control, lighting effect changes with the music rhythm	
	Available in ceiling installation, side-wall hanging or truss hanging with clamps	

Dimensions	272x248x252mm	10.7”x9.8”x9.9”
Weight	4.5 kg	9.9 lbs

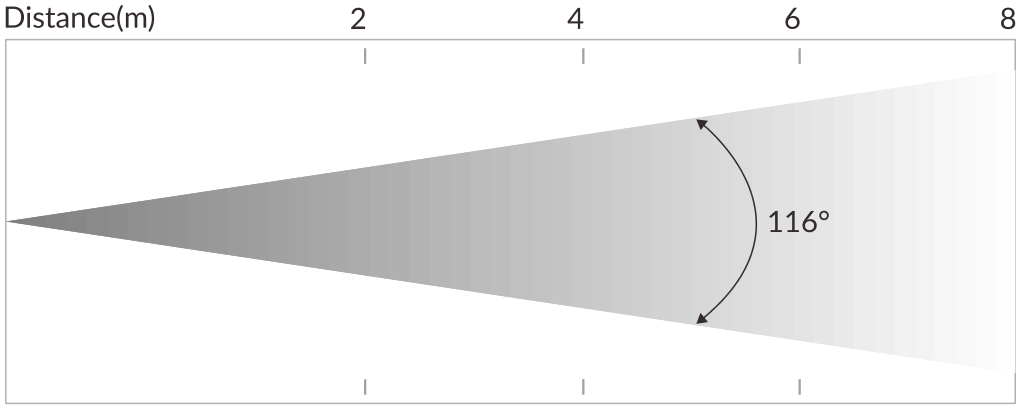


Photometric Diagram (Beam Angle):



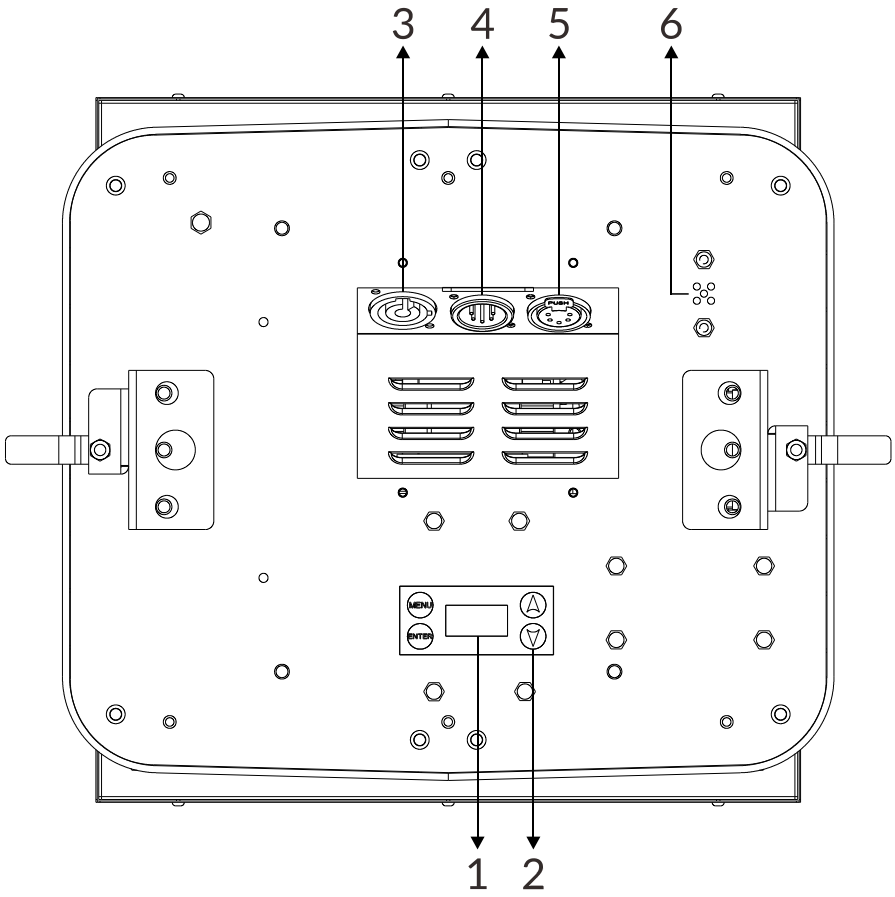
60° Lux	274	78	34	16
Diameter(m)	3.3	6.6	9.9	13.2

Photometric Diagram (Field Angle):



116° Lux	274	78	34	16
Diameter(m)	6.4	12.8	19.2	25.6

03/ Overview



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	To connect to supply power	
4. DMX IN	For DMX512 link, use 5-pin XLR cable to link the unit and DMX controller to input DMX signal (optional with 3-pin XLR)	
5. DMX OUT	For DMX512 link, use 5-pin XLR cable to link the next units to output DMX signal (optional with 3-pin XLR)	
6. MIC	Picks up the beat of the music in sound active mode	

04/ Connecting Power and Data

4.1 Connecting Power

This fixture can operate on any 100-240Vac; 50/60Hz AC mains power supply.

The maximum power consumption is 115W.

The fixture must be grounded/earthed and able to be isolated from AC power. The AC power supply must incorporate a fuse or circuit breaker for fault protection.

Wiring and connection work must be carried out by a qualified electrician.

The power cable color coding is given in the figure below:

Wire	Color (US)	Wire	Color (EU)	Symbol	Conductor
	black		brown	L	live
	white		blue	N	neutral
	green		yellow/green	⏚ or ⏚	ground (earth)

CAUTION!

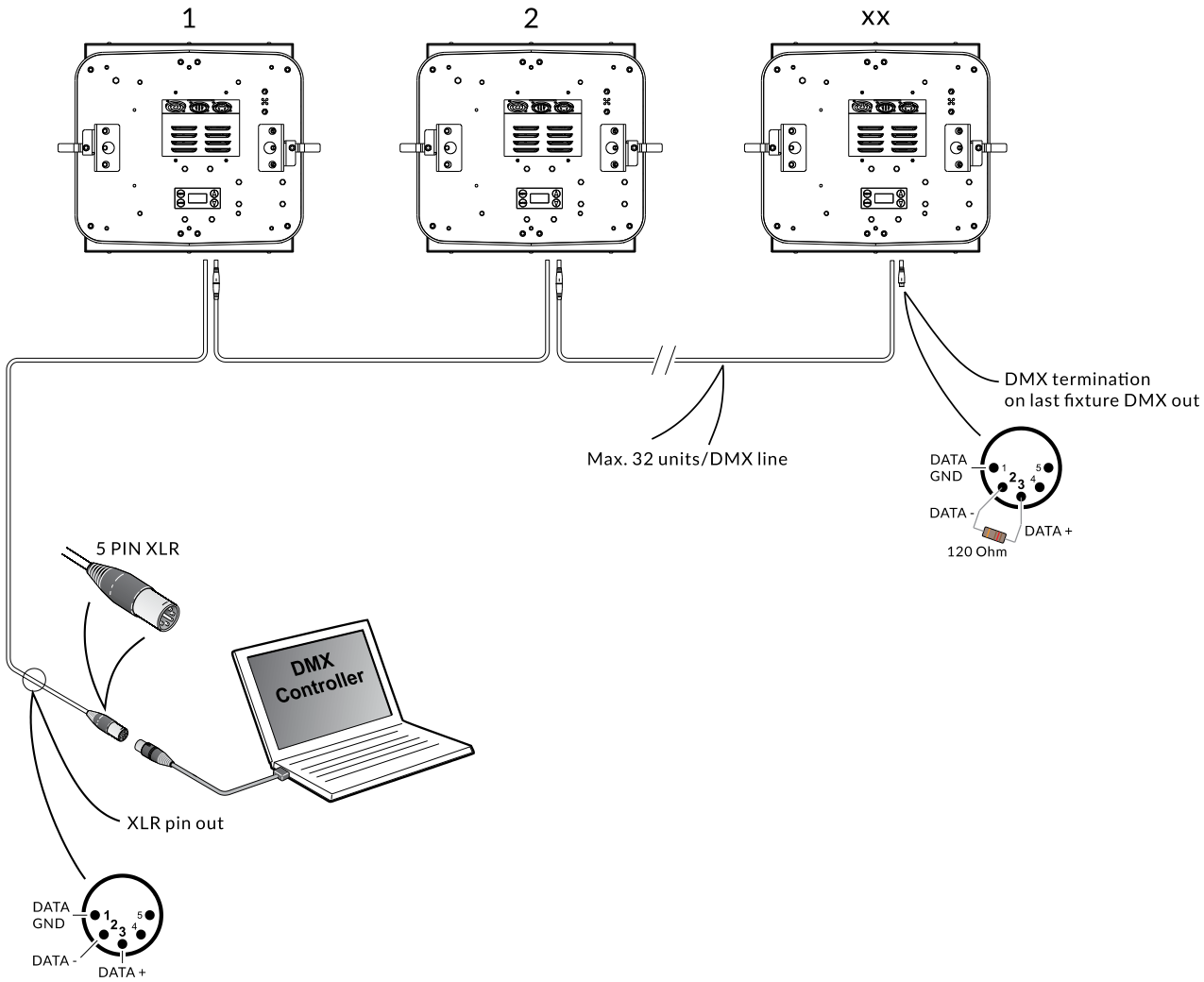
DO NOT CONNECT THE FIXTURE TO AN ELECTRICAL DIMMER SYSTEM AS DOING SO MAY CAUSE DAMAGE.

4.2 Connecting Data

The fixture is equipped with 5-pin (or 3-pin) XLR sockets for DMX input and output. Use a high-quality DMX cable designed for RS-485 and 5-pin (or 3-pin) XLR-plugs and connectors in order to connect the controller with the fixture or one fixture with another.

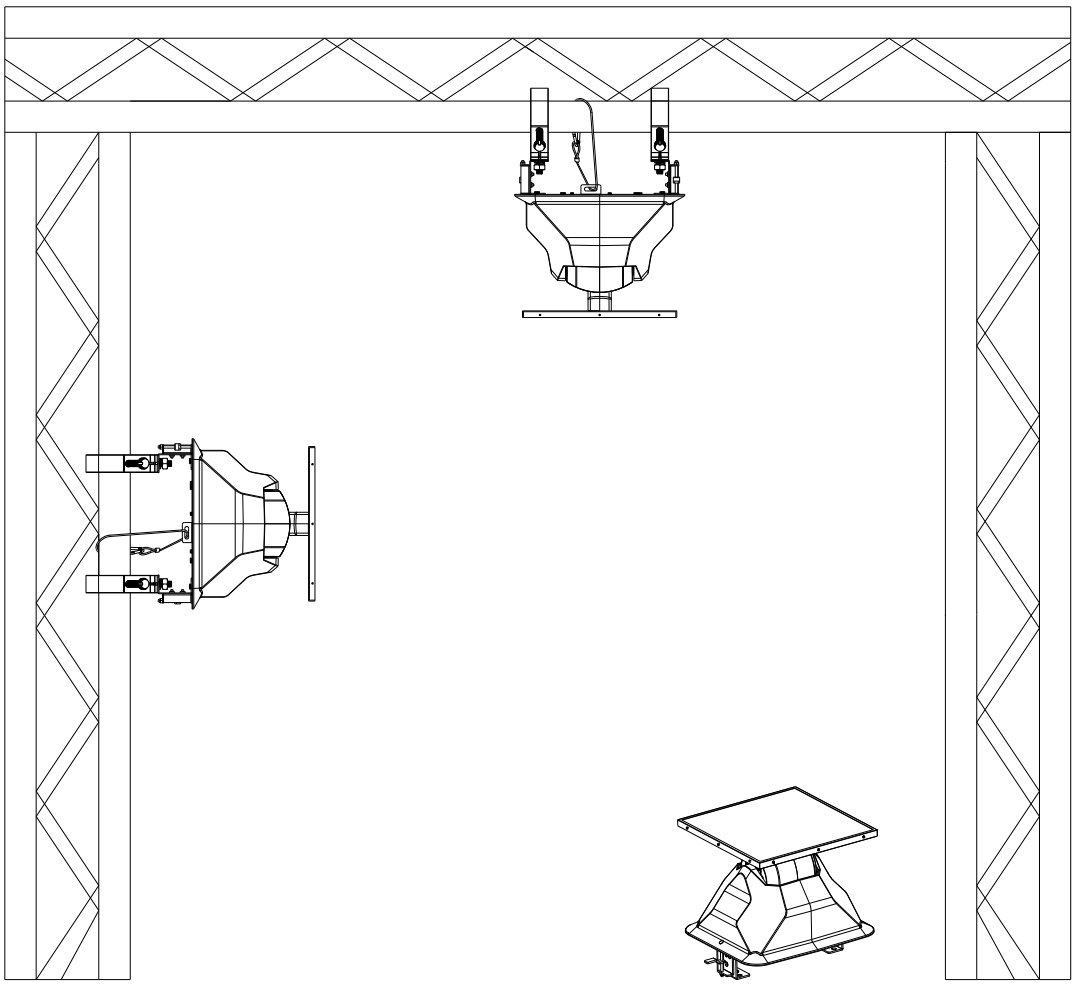
Building a serial DMX chain:

Connect the DMX data output from the controller to the fixture's data input socket. Connect the DMX output of the first fixture in the DMX chain with the DMX input of the next fixture. Always connect one output with the input of the next fixture until all fixtures are connected. Up to 32 fixtures can be connected to the same DMX link. Terminate the DMX out cable of the last fixture in the data link with a 120 ohm DMX terminator.



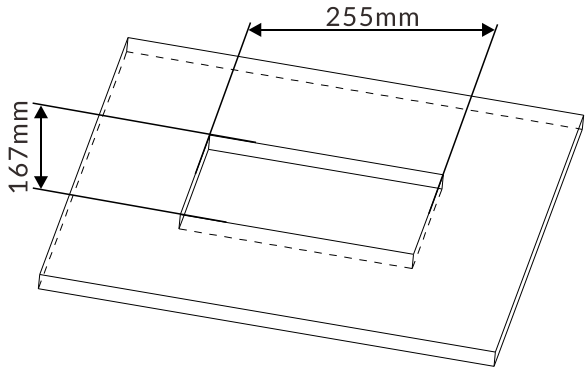
05/ Fixture Installation

- 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 four different mounting positions: hanging upside-down, mounted sideways on trussing, standing on the floor, or embedding in the ceiling. Always use and install a safety cable as a safety measure to prevent accidental damage and/or injury in the event the clamp fails.

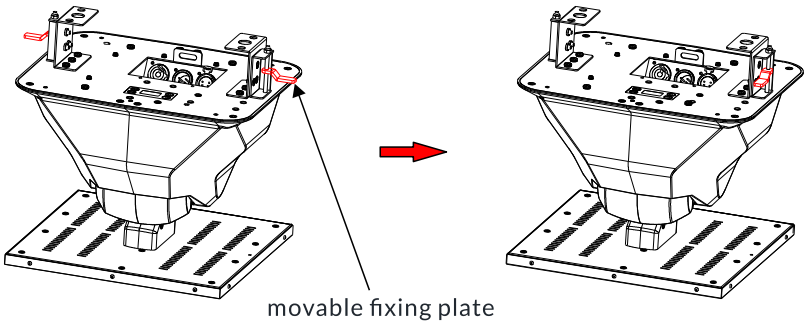


Embedding the fixture in the ceiling:

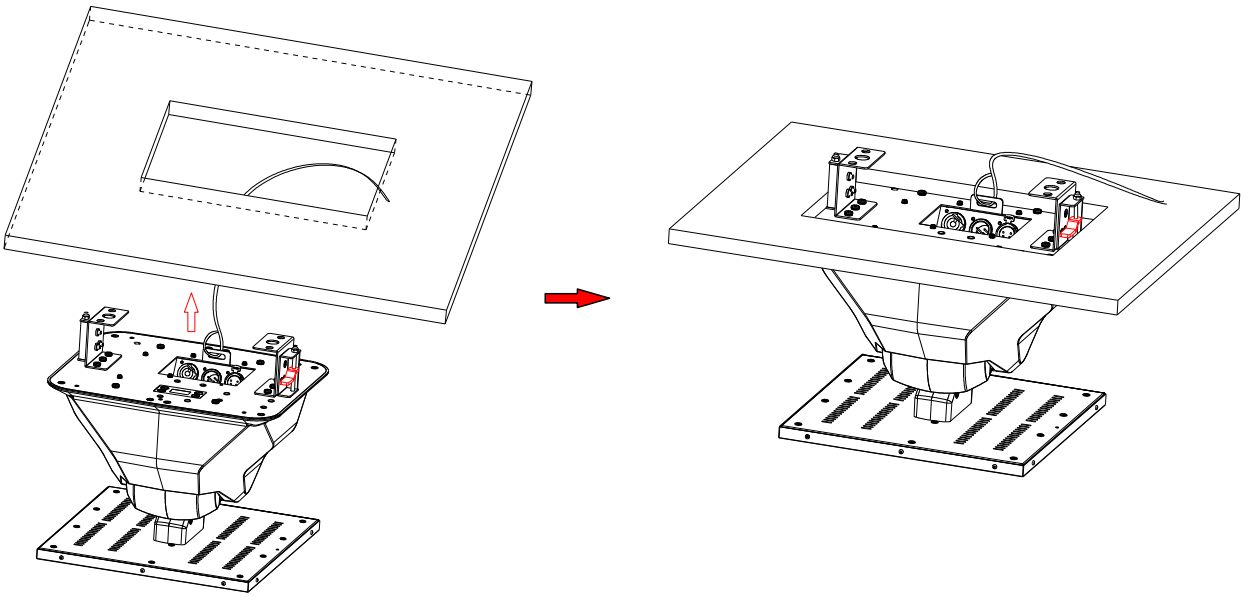
1. Drill a rectangular hole with a length of 255mm and a width of 167mm in the ceiling. (The ceiling thickness ranges from 6mm to 29mm).



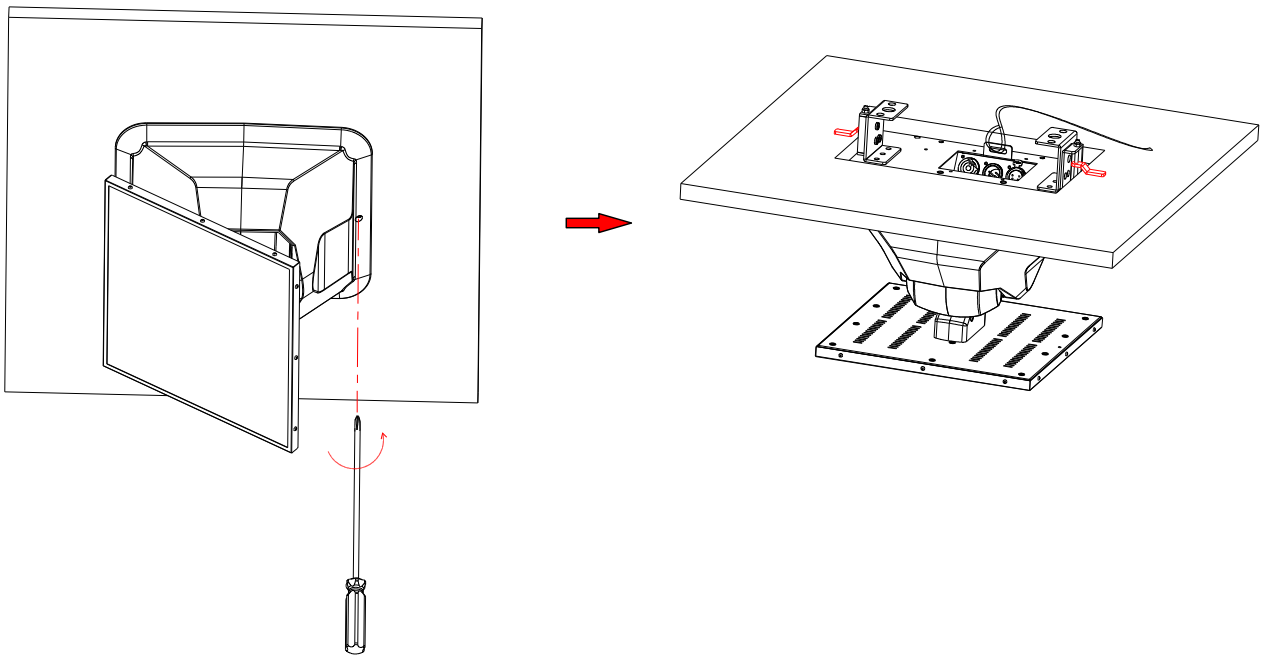
2. Adjust the two movable fixing plates of the fixture inward and stick to the fixture shell.



3. Install the safety cable and push the fixture from the bottom to the ceiling to be flush with the ceiling surfacing.



4. Screw the two screws clockwise to open the movable fixing plates outwards until they press against the back of the ceiling.



06/ Operation

6.1 Control Menu

- 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:

MAIN MENU	SUBMENU	CHOICES/VALUES	
DMX Settings	DMX Address	1-357 (156 CH)	(Default=1)
		1-497 (16 CH)	
	DMX Channel Mode	156 CH	
		16 CH	
	No DMX Status	Blackout	
		Hold	
		Manual	
		Show	
	View DMX Value		
Fixture Settings	Pan Invert	No	
		Yes	
	Tilt Invert	No	
		Yes	
	Dimmer Curve	Linear	
		Square Law	
		Inv SQ Law	
		S Curve	
	Dimmer Speed	Fast	
		Smooth	
	White Balance	Red	125-255
		Green	125-255
		Blue	125-255
		Red 1	125-255
		Green 1	125-255
		Blue 1	125-255
		.....	.....

MAIN MENU	SUBMENU	CHOICES/VALUES			
		Red 49	125-255		
		Green 49	125-255		
		Blue 49	125-255		
	Pri. Sec. Mode	Primary			
		Secondary 1			
		Secondary 2			
	Show Mode	Show 1			
		Show 2			
		Show 3			
		Show 4			
	Sound State	On			
		Off			
	Sound Sense	0-100	(Default=90)		
	Invert Pixel	No			
		Yes			
Display Settings	Display Invert	No			
		Yes			
	Temperature Unit	°C			
		°F			
	Language	English			
		Chinese			
Fixture Test	Auto Test	Single			
		Cycle			
	Manual Test	Mode 1		Mode 2	
		Clear	No/Yes	Clear	No/Yes
		Pan	0-255	Pan	0-255
		Tilt	0-255	Tilt	0-255
		Strobe	0-255	Red	0-255
		Dimmer	0-255	Green	0-255
		Red 1	0-255	Blue	0-255
		Green 1	0-255	Color Mac	0-255
		Blue 1	0-255	Strobe	0-255
		.....	.....	Dimmer	0-255
		Red 49	0-255	Color Dim	0-255
		Green 49	0-255	Mode	0-255
		Blue 49	0-255	Effect	0-255

MAIN MENU	SUBMENU	CHOICES/VALUES	
Information	Fixture Use Hour		
	LED Use Hour	Total LED Hour	
		LED On Hour	
		LED Hours Reset	Password=050
	Temperature	Current	
		Max temp	
	Firmware Version		
	RDM UID		
	Error Logs	Fixture Errors	
		Reset Error Log	No
			Yes Password=050
Reset Functions	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, DMX Channel Mode, No DMX Status** 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
156 CH	1-357
16 CH	1-497

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

DMX Channel Mode

Select **DMX Channel Mode,** press ENTER.

Use UP/DOWN button to select between **156 CH** and **16 CH**, confirm your selection with ENTER.

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

No DMX Status

Select **No DMX Status,** press ENTER.
Use UP/DOWN button to select one of the following status:
Blackout (Fixture blacks out if DMX signal stops)
Hold (The device continues to operate in the current mode with the last active DMX values until the signal returns)
Manual (The device accepts the DMX value stored in the 'Manual Test' menu)
Show (Show Mode)
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, Dimmer Curve, Dimmer Speed, White Balance, Pri. Sec. Mode, Show Mode, Sound State, Sound Sense** or **Invert Pixel.**

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.

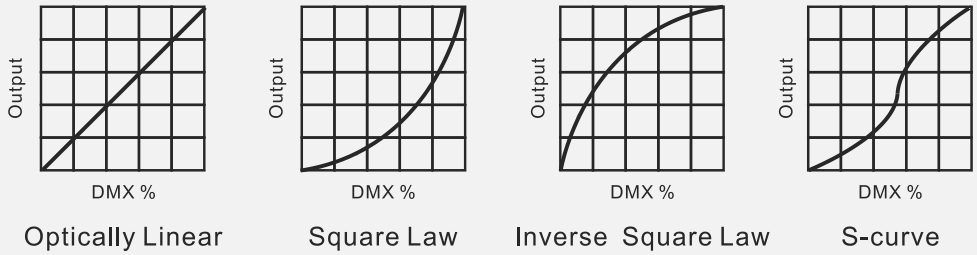
To exit the menu, press MENU, or wait 30 seconds.

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



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 49, Green 49, Blue 49**, 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 **Primary, Secondary 1** or **Secondary 2**, confirm your selection with ENTER.
To exit the menu, press MENU, or wait 30 seconds.

Show Mode

Select **Show Mode,** press ENTER.
Use UP/DOWN button to select **Show 1, Show 2, Show 3** or **Show 4**, confirm your selection with ENTER.
To exit the menu, press MENU, or wait 30 seconds.

Sound State

Select **Sound State,** press ENTER.
Use UP/DOWN button to select **On** or **Off**, confirm your selection with ENTER.
To exit the menu, press MENU, or wait 30 seconds.

Sound Sense

Select **Sound Sense,** press ENTER.
Use UP/DOWN button to select a value between **0** and **100**, confirm your selection with ENTER.
To exit the menu, press MENU, or wait 30 seconds.

Invert Pixel

Select **Invert Pixel,** press ENTER.
Use UP/DOWN button to select **No** or **Yes**, 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** 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.

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.
Use UP/DOWN button to select **Single** (the device immediately performs a single automatic self-test) or **Cycle** (the device immediately performs a cyclic automatic self-test), confirm your selection with ENTER.
To exit the menu, press MENU.

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.
(The device returns to its original DMX state after the manual test. The test values are saved automatically when the device is switched off.)

Information

Enter the control menu and select **Information**, press ENTER. Use the UP/DOWN button to select **Fixture Use Hour, LED Use Hour, Temperature, Firmware Version, RDM UID** 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.

Temperature

Select **Temperature,** press ENTER.
The device temperature 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.

RDM UID

Select **RDM UID,** press ENTER.
The RDM UID 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 **All Reset.**

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			√
LAMP_HOURS			√
PAN_INVERT		√	√
TILT_INVERT		√	√
RESET_DEVICE		√	
CURVE		√	√
SHOW_MODE		√	√
PRIMARY_SECONDARY		√	√
DMX_STATE		√	√
DIMMER_SPEED		√	√
SOUND_MODE		√	√
SOUND_SENSE		√	√

√ -Command implemented for the respective parameter ID

6.2 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 [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
Red	0~1000
Green	0~1000
Blue	0~1000
Red 1	0~1000
Green 1	0~1000
Blue 1	0~1000
.....	.....
Red 49	0~1000
Green 49	0~1000
Blue 49	0~1000

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.

Red

Select **Red,** press ENTER.
Use UP/DOWN button to select a value between 0 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 0 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 0 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 0 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 0 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 0 and 1000, confirm your selection with ENTER.
To exit the offset menu, press MENU, or wait 30 seconds.

.....

Red 49

Select **Red 49,** press ENTER.
Use UP/DOWN button to select a value between 0 and 1000, confirm your selection with ENTER.
To exit the offset menu, press MENU, or wait 30 seconds.

Green 49

Select **Green 49,** press ENTER.
Use UP/DOWN button to select a value between 0 and 1000, confirm your selection with ENTER.
To exit the offset menu, press MENU, or wait 30 seconds.

Blue 49

Select **Blue 49,** press ENTER.
Use UP/DOWN button to select a value between 0 and 1000, confirm your selection with ENTER.
To exit the offset menu, press MENU, or wait 30 seconds.

07/ Configuring the Device for DMX Control

7.1 Address Setting

All fixtures should be given a DMX starting address when operating with a DMX controller, in order to ensure that the correct fixture responds to the correct control signal. Incorrect settings will result in unpredictable responses from the lighting controller.

You can set the same starting address for all fixtures or a group of fixtures, or set different addresses for each individual fixture.

Setting all fixtures to the same DMX address will cause all fixtures to react in the same way. In this case, please note that changing the settings of one channel will affect all the fixtures simultaneously.

If you set each fixture to a different DMX address, each unit will “listen” starting at the channel number you have set, based on the quantity of DMX channels of each fixture. That means changing the settings of one channel will only affect the selected fixture.

For example, if the first fixture is set to 156 ch DMX mode with a start DMX address of 1, the following fixture in the DMX chain should then be set to a DMX address of 157. As the first fixture uses all the first 156 DMX channels, the next available channel is 157 (156+1=157 >> 157).

See the chart below for more details:

Channel Mode	Unit 1 Address	Unit 2 Address	Unit 3 Address	Unit 4 Address	Unit xxx Address
156 channels	1	157	313	469	/
16 channels	1	17	33	49	.....

7.2 DMX Protocol

156 Channels (Mode 1):

CHANNEL	VALUE	FUNCTION
1	000-255	**PAN** 0°→74°
2	000-255	**PAN FINE**
3	000-255	**TILT** 0°→74°
4	000-255	**TILT FINE**
5	000-255	**PAN/TILT SPEED** Fast to Slow
6	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 Open Slow Close from Slow to Fast Open Slow Open Fast Close from Slow to Fast Sound-activated Strobe Random Strobe from Slow to Fast Open
7	000-255	**DIMMER** 0%→100%
8	000-255	**DIMMER FINE**
9	000-029 030-039 040-049 050-059 060-069 070-159 160-169 170-179 180-199 200-209 210-219 220-229 230-255	**SPECIAL FUNCTION** (To activate following functions, stop in DMX value for at least 3 seconds.) Null Dimmer Curve: Linear Dimmer Curve: Square Law Dimmer Curve: Inverse Square Law Dimmer Curve: S Curve Null Invert Pixel Order: Yes Invert Pixel Order: No Null All Reset Dimmer Speed: Fast Dimmer Speed: Smooth Null
10		**RED 1**

	000-255	0%→100%
11	000-255	**GREEN 1** 0%→100%
12	000-255	**BLUE 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	**RED 3** 0%→100%
17	000-255	**GREEN 3** 0%→100%
18	000-255	**BLUE 3** 0%→100%
19	000-255	**RED 4** 0%→100%
20	000-255	**GREEN 4** 0%→100%
21	000-255	**BLUE 4** 0%→100%
22	000-255	**RED 5** 0%→100%
23	000-255	**GREEN 5** 0%→100%
24	000-255	**BLUE 5** 0%→100%
25	000-255	**RED 6** 0%→100%
26	000-255	**GREEN 6** 0%→100%
27	000-255	**BLUE 6** 0%→100%
28	000-255	**RED 7** 0%→100%
29	000-255	**GREEN 7** 0%→100%
30	000-255	**BLUE 7** 0%→100%
31	000-255	**RED 8** 0%→100%

32	000-255	**GREEN 8** 0%→100%
33	000-255	**BLUE 8** 0%→100%
34	000-255	**RED 9** 0%→100%
35	000-255	**GREEN 9** 0%→100%
36	000-255	**BLUE 9** 0%→100%
37	000-255	**RED 10** 0%→100%
38	000-255	**GREEN 10** 0%→100%
39	000-255	**BLUE 10** 0%→100%
40	000-255	**RED 11** 0%→100%
41	000-255	**GREEN 11** 0%→100%
42	000-255	**BLUE 11** 0%→100%
43	000-255	**RED 12** 0%→100%
44	000-255	**GREEN 12** 0%→100%
45	000-255	**BLUE 12** 0%→100%
46	000-255	**RED 13** 0%→100%
47	000-255	**GREEN 13** 0%→100%
48	000-255	**BLUE 13** 0%→100%
49	000-255	**RED 14** 0%→100%
50	000-255	**GREEN 14** 0%→100%
51	000-255	**BLUE 14** 0%→100%
52	000-255	**RED 15** 0%→100%
53	000-255	**GREEN 15** 0%→100%

54	000-255	**BLUE 15** 0%→100%
55	000-255	**RED 16** 0%→100%
56	000-255	**GREEN 16** 0%→100%
57	000-255	**BLUE 16** 0%→100%
58	000-255	**RED 17** 0%→100%
59	000-255	**GREEN 17** 0%→100%
60	000-255	**BLUE 17** 0%→100%
61	000-255	**RED 18** 0%→100%
62	000-255	**GREEN 18** 0%→100%
63	000-255	**BLUE 18** 0%→100%
64	000-255	**RED 19** 0%→100%
65	000-255	**GREEN 19** 0%→100%
66	000-255	**BLUE 19** 0%→100%
67	000-255	**RED 20** 0%→100%
68	000-255	**GREEN 20** 0%→100%
69	000-255	**BLUE 20** 0%→100%
70	000-255	**RED 21** 0%→100%
71	000-255	**GREEN 21** 0%→100%
72	000-255	**BLUE 21** 0%→100%
73	000-255	**RED 22** 0%→100%
74	000-255	**GREEN 22** 0%→100%
75	000-255	**BLUE 22** 0%→100%

76	000-255	**RED 23** 0%→100%
77	000-255	**GREEN 23** 0%→100%
78	000-255	**BLUE 23** 0%→100%
79	000-255	**RED 24** 0%→100%
80	000-255	**GREEN 24** 0%→100%
81	000-255	**BLUE 24** 0%→100%
82	000-255	**RED 25** 0%→100%
83	000-255	**GREEN 25** 0%→100%
84	000-255	**BLUE 25** 0%→100%
85	000-255	**RED 26** 0%→100%
86	000-255	**GREEN 26** 0%→100%
87	000-255	**BLUE 26** 0%→100%
88	000-255	**RED 27** 0%→100%
89	000-255	**GREEN 27** 0%→100%
90	000-255	**BLUE 27** 0%→100%
91	000-255	**RED 28** 0%→100%
92	000-255	**GREEN 28** 0%→100%
93	000-255	**BLUE 28** 0%→100%
94	000-255	**RED 29** 0%→100%
95	000-255	**GREEN 29** 0%→100%
96	000-255	**BLUE 29** 0%→100%
97	000-255	**RED 30** 0%→100%

98	000-255	GREEN 30 0%→100%
99	000-255	BLUE 30 0%→100%
100	000-255	RED 31 0%→100%
101	000-255	GREEN 31 0%→100%
102	000-255	BLUE 31 0%→100%
103	000-255	RED 32 0%→100%
104	000-255	GREEN 32 0%→100%
105	000-255	BLUE 32 0%→100%
106	000-255	RED 33 0%→100%
107	000-255	GREEN 33 0%→100%
108	000-255	BLUE 33 0%→100%
109	000-255	RED 34 0%→100%
110	000-255	GREEN 34 0%→100%
111	000-255	BLUE 34 0%→100%
112	000-255	RED 35 0%→100%
113	000-255	GREEN 35 0%→100%
114	000-255	BLUE 35 0%→100%
115	000-255	RED 36 0%→100%
116	000-255	GREEN 36 0%→100%
117	000-255	BLUE 36 0%→100%
118	000-255	RED 37 0%→100%
119	000-255	GREEN 37 0%→100%

120	000-255	**BLUE 37** 0%→100%
121	000-255	**RED 38** 0%→100%
122	000-255	**GREEN 38** 0%→100%
123	000-255	**BLUE 38** 0%→100%
124	000-255	**RED 39** 0%→100%
125	000-255	**GREEN 39** 0%→100%
126	000-255	**BLUE 39** 0%→100%
127	000-255	**RED 40** 0%→100%
128	000-255	**GREEN 40** 0%→100%
129	000-255	**BLUE 40** 0%→100%
130	000-255	**RED 41** 0%→100%
131	000-255	**GREEN 41** 0%→100%
132	000-255	**BLUE 41** 0%→100%
133	000-255	**RED 42** 0%→100%
134	000-255	**GREEN 42** 0%→100%
135	000-255	**BLUE 42** 0%→100%
136	000-255	**RED 43** 0%→100%
137	000-255	**GREEN 43** 0%→100%
138	000-255	**BLUE 43** 0%→100%
139	000-255	**RED 44** 0%→100%
140	000-255	**GREEN 44** 0%→100%
141	000-255	**BLUE 44** 0%→100%

142	000-255	**RED 45** 0%→100%
143	000-255	**GREEN 45** 0%→100%
144	000-255	**BLUE 45** 0%→100%
145	000-255	**RED 46** 0%→100%
146	000-255	**GREEN 46** 0%→100%
147	000-255	**BLUE 46** 0%→100%
148	000-255	**RED 47** 0%→100%
149	000-255	**GREEN 47** 0%→100%
150	000-255	**BLUE 47** 0%→100%
151	000-255	**RED 48** 0%→100%
152	000-255	**GREEN 48** 0%→100%
153	000-255	**BLUE 48** 0%→100%
154	000-255	**RED 49** 0%→100%
155	000-255	**GREEN 49** 0%→100%
156	000-255	**BLUE 49** 0%→100%

16 Channels (Mode 2):

CHANNEL	VALUE	FUNCTION
1	000-255	**PAN** 0°→74°
2	000-255	**PAN FINE**
3	000-255	**TILT** 0°→74°
4	000-255	**TILT FINE**
5	000-255	**PAN/TILT SPEED** Fast to Slow
6	000-255	**RED** 0%→100%
7	000-255	**GREEN** 0%→100%
8	000-255	**BLUE** 0%→100%
9	000-009 010-014 015-019 020-024 025-029 030-034 035-039 040-044 045-049 050-054 055-059 060-064 065-069 070-074 075-079 080-084 085-089 090-094 095-099 100-104 105-109 110-114 115-119 120-124 125-129 130-134 135-139	**COLOR MACRO** Open LEE 790-Moroccan Pink LEE 157-Pink LEE 332-Special Rose Pink LEE 328-Follies Pink LEE 345-Fuchsia Pink LEE 194-Surprise Pink LEE 181-Congo Blue LEE 071-Tokyo Blue LEE 120-Deep Blue LEE 079-Just Blue LEE 132-Medium Blue LEE 200-Double CT Blue LEE 161-State Blue LEE 201-Full CT Blue LEE 202-Half CT Blue LEE 117-Steel Blue LEE 353-Lighter Blue LEE 118-Light Blue LEE 116-Medium Blue Green LEE 124-Dark Green LEE 139-Primary Green LEE 089-Moss Green LEE 122-Fern Green LEE 738-JAS Green LEE 088-Lime Green LEE 100-Spring Yellow

	140-144	LEE 104-Deep Amber
	145-149	LEE 179-Chrome Orange
	150-154	LEE 105-Orange
	155-159	LEE 021-Gold Amber
	160-164	LEE 778-Millennium Gold
	165-169	LEE 135-Deep Gold Amber
	170-174	LEE 164-Flame Red
	175-179	Open
	180-201	Clockwise Rotation, Fast to Slow
	202-207	Stop
	208-229	Counter-clockwise Rotation, Slow to Fast
	230-234	Open
	235-239	Random Color: Fast
	240-244	Random Color: Medium
	245-249	Random Color: Slow
	250-255	Open
10		**STROBE**
	000-007	Close
	008-015	Open
	016-131	Strobe from Slow to Fast
	132-139	Open
	140-181	Fast Open Slow Close from Slow to Fast
	182-189	Open
	190-231	Slow Open Fast Close from Slow to Fast
	232-239	Sound-activated Strobe
	240-247	Random Strobe from Slow to Fast
	248-255	Open
11		**DIMMER**
	000-255	0%→100%
12	000-255	**DIMMER FINE**
13		**BACKGROUND DIMMER**
	000-255	0%→100%
14		**EFFECT MODE**
	000-014	Blackout
	015-047	Blackout
	048-095	Macro Effect (see channel 15-1)
	096-135	Number 1 to 9 (see channel 15-2)
	136-175	Letter A to Z (see channel 15-3)
	176-215	Blackout
	216-255	Blackout
15-1		**MARCO EFFECT**
	000-007	Null
	008-015	Effect 1
	016-023	Effect 2
	024-031	Effect 3
	032-039	Effect 4

	040-047	Effect 5
	048-055	Effect 6
	056-063	Effect 7
	064-071	Effect 8
	072-079	Effect 9
	080-087	Effect 10
	088-095	Effect 11
	096-103	Effect 12
	104-111	Effect 13
	112-119	Effect 14
	120-127	Effect 15
	128-135	Effect 16
	136-143	Effect 17
	144-151	Effect 18
	152-159	Effect 19
	160-167	Effect 20
	168-175	Effect 21
	176-183	Effect 22
	184-191	Effect 23
	192-199	Effect 24
	200-207	Effect 25
	208-215	Effect 26
	216-223	Effect 27
	224-231	Effect 28
	232-247	Random Effect
	248-255	Null
15-2		**NUMBER 1 to 9**
	000-025	Null
	026-048	Number-0
	049-071	Number-1
	072-094	Number-2
	095-117	Number-3
	118-140	Number-4
	141-163	Number-5
	164-186	Number-6
	187-209	Number-7
	210-232	Number-8
	233-255	Number-9
15-3		**LETTER A to Z**
	000-021	Null
	022-030	Letter-A
	031-039	Letter-B
	040-048	Letter-C
	049-057	Letter-D
	058-066	Letter-E
	067-075	Letter-F
	076-084	Letter-G

	085-093	Letter-H
	094-102	Letter-I
	103-111	Letter-J
	112-120	Letter-K
	121-129	Letter-L
	130-138	Letter-M
	139-147	Letter-N
	148-156	Letter-O
	157-165	Letter-P
	166-174	Letter-Q
	175-183	Letter-R
	184-192	Letter-S
	193-201	Letter-T
	202-210	Letter-U
	211-219	Letter-V
	220-228	Letter-W
	229-237	Letter-X
	238-246	Letter-Y
	247-255	Letter-Z
16		**SPECIAL FUNCTION** (To activate following functions, stop in DMX value for at least 3 seconds.)
	000-029	Null
	030-039	Dimmer Curve: Linear
	040-049	Dimmer Curve: Square Law
	050-059	Dimmer Curve: Inverse Square Law
	060-069	Dimmer Curve: S Curve
	070-159	Null
	160-169	Invert Pixel Order: Yes
	170-179	Invert Pixel Order: No
	180-199	Null
	200-209	All Reset
	210-219	Dimmer Speed: Fast
	220-229	Dimmer Speed: Smooth
	230-255	Null

08/ Error Information

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

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.

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.

LED Temp. Error

Check whether the temperature detecting board is normal.
Check whether the components of the temperature detecting board are damaged.
Check whether the lead on the temperature detecting board is installed in place or disconnected.

LED Timeout Use

LED Too Hot Off

When the fixture temperature reaches 81℃, it will automatically turn off to protect the fixture.

09/ Troubleshooting

Problem	Potential cause(s)	Remedies
Fixture does not respond or appears to be off.	No power to the fixture.	Confirm that the power is switched on and cables are plugged in.
	No output from PSU.	Replace the PSU.
Fixture suddenly turned off.	Power was turned off.	Check the power supply, switches and breakers.
Light output cuts out intermittently.	Fixture is too hot.	Check fixture's stored error messages for more information. Allow fixture to cool. Clean fixture. Reduce ambient temperature.
Fixture suddenly stopped responding.	DMX cables were disconnected.	Inspect DMX cables.
Fixture operates irregularly / abnormal.	Incorrect DMX address or DMX mode.	Inspect and enter the correct DMX address or mode.
	DMX link is not terminated.	Install a XLR 120ohm DMX termination at the end of the DMX link.
	Bad data link.	Replace or repair defective cables and/or connections.
	One of the fixtures is defective and is disturbing data transmission on the link.	Track and isolate the corrupted fixture. Have the fixture serviced by a qualified technician.
Pan / tilt is skipping / shuddering	Obstacles are within the required pan / tilt clearance.	Inspect and remove any obstacles constraining free operation of the pan / tilt.
	The Hall element is damaged.	Replace the Hall element.
	The magnetic steel fell out.	Replace the magnetic steel.

10/ Fixture Cleaning

Regular cleaning is very important for fixture life and performance. Buildup of dust, dirt, smoke particles, fog fluid residues, etc. degrades the fixture's light output and cooling ability. Cleaning schedules for lighting fixtures vary greatly depending on the operating environment. It is therefore impossible to specify precise cleaning intervals for the fixture. Environmental factors that may result in a need for frequent cleaning include:

- Use of smoke or fog machines.
- High airflow rates (near air conditioning vents, for example).
- Airborne dust (from stage effects, building structures and fittings or the natural environment at outdoor events, for example).

If one or more of these factors is present, inspect fixtures within their first few hours of operation to see whether cleaning is necessary. Check again at frequent intervals. This procedure will allow you to assess cleaning requirements in your particular situation.

Follow these precautions when cleaning the fixture:

- Work in a clean, dry, well-lit area.
- Use gentle pressure only. A soft lint-free cloth dampened with a solution of water and a mild detergent is recommended, under no circumstances should alcohol, solvents or abrasives be used! Use care when cleaning optical components: surfaces are fragile and easily scratched.