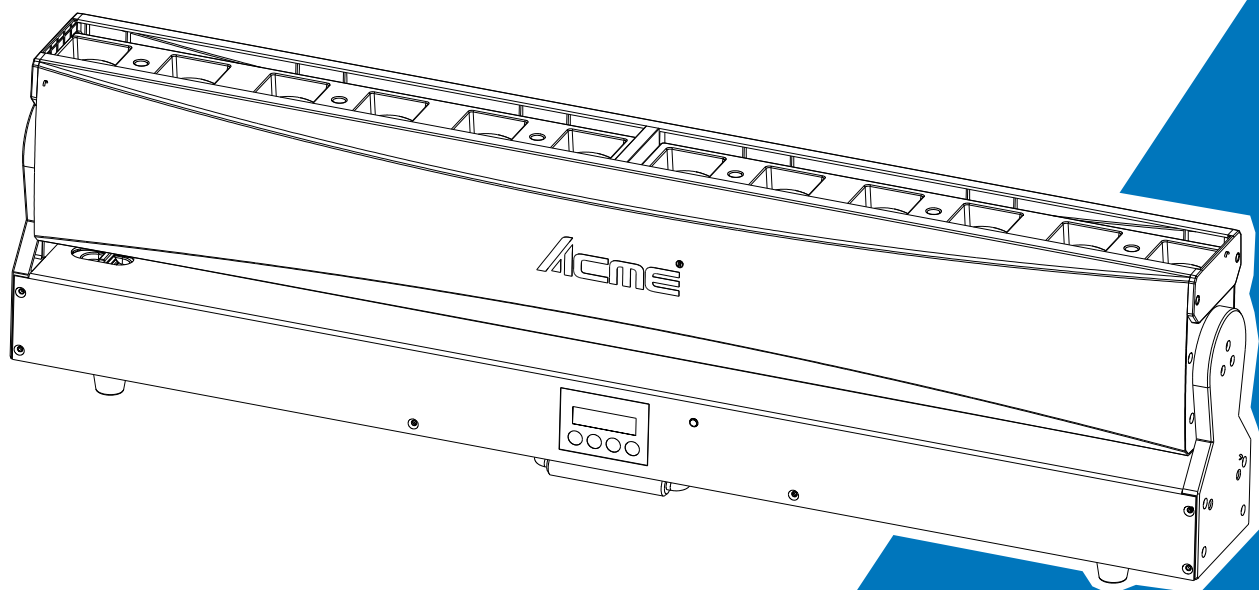




Dotline 360



User Manual

Please read the instruction carefully before use

CONTENTS

01/ Safety Information.....	2
02/ Technical Specifications	5
03/ Overview.....	6
04/ Connecting Power and Data	8
4.1 Connecting Power.....	8
4.2 Connecting Data.....	9
05/ Fixture Installation.....	10
06/ Operation.....	11
6.1 Control Menu.....	11
6.2 Home Position Adjustment	22
07/ Configuring the Device for DMX Control.....	23
7.1 Address Setting.....	23
7.2 DMX Protocol	24
08/ Error Information	28
09/ Troubleshooting	30
10/ Fixture Cleaning.....	31
11/ Approvals and Certifications	32

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.

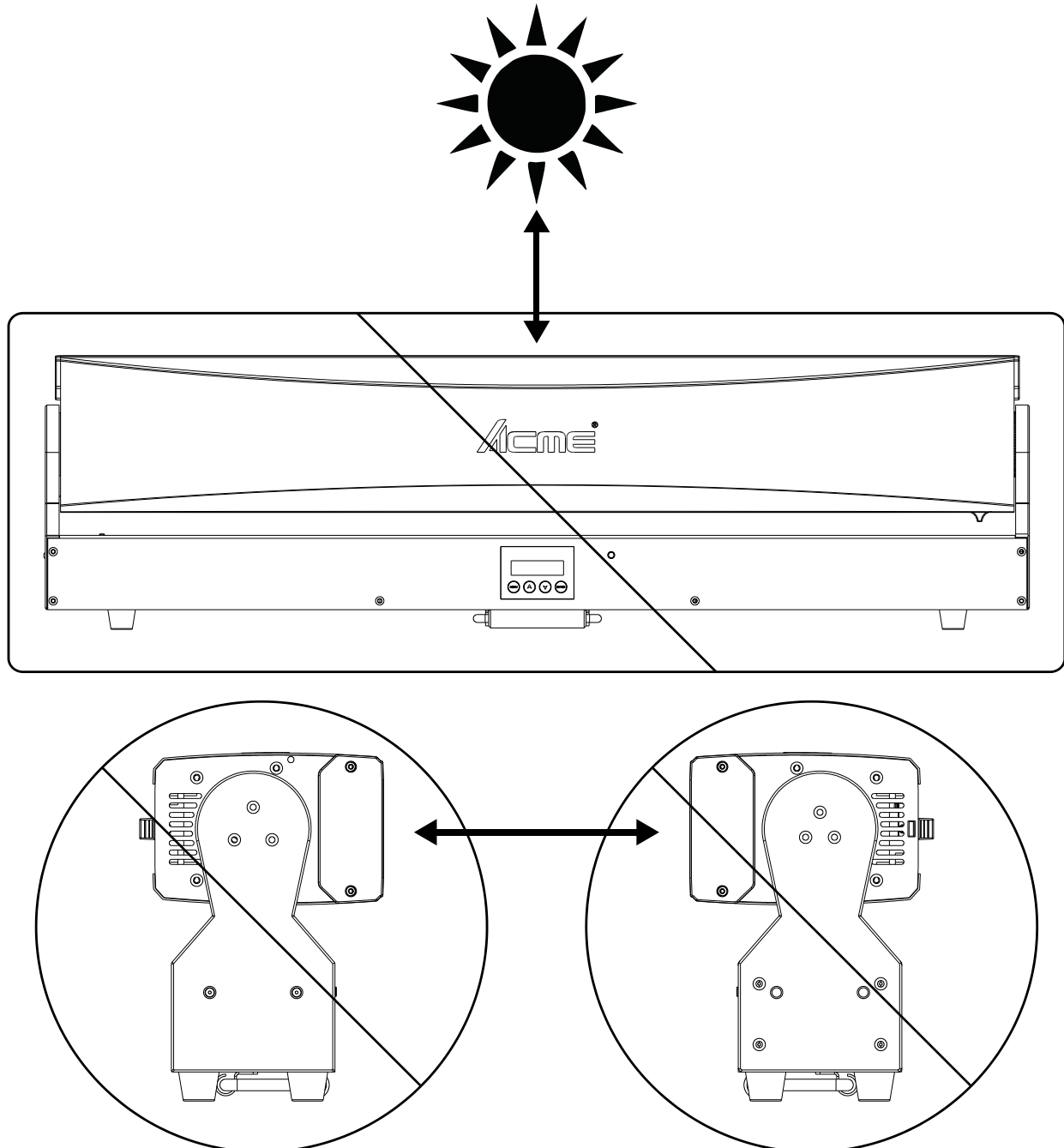
Important:

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 60°C. DO NOT touch the housing bare-handed during its operation.

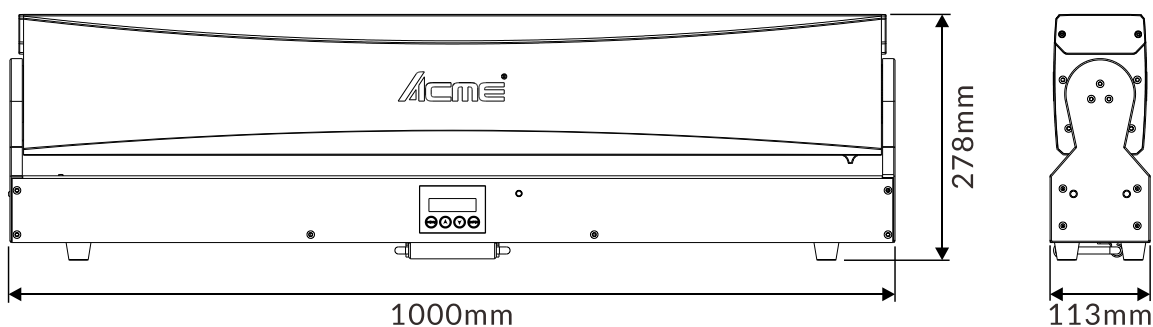
- Avoid any flammable liquids, water or metal from entering the unit. Once it happens, cut off the mains power immediately.
- DO NOT operate in a dirty or dusty environment. DO clean the fixture regularly.
- DO NOT touch any wire during operation as there might be a hazard of electric shock.
- Avoid entanglement of the power cord with other wires.
- The minimum distance to objects/surface must be more than 0.5 meters.
- 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.

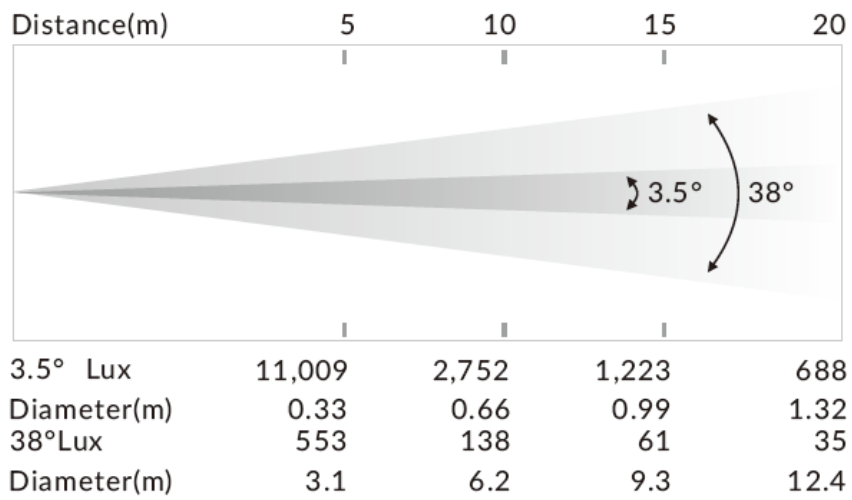
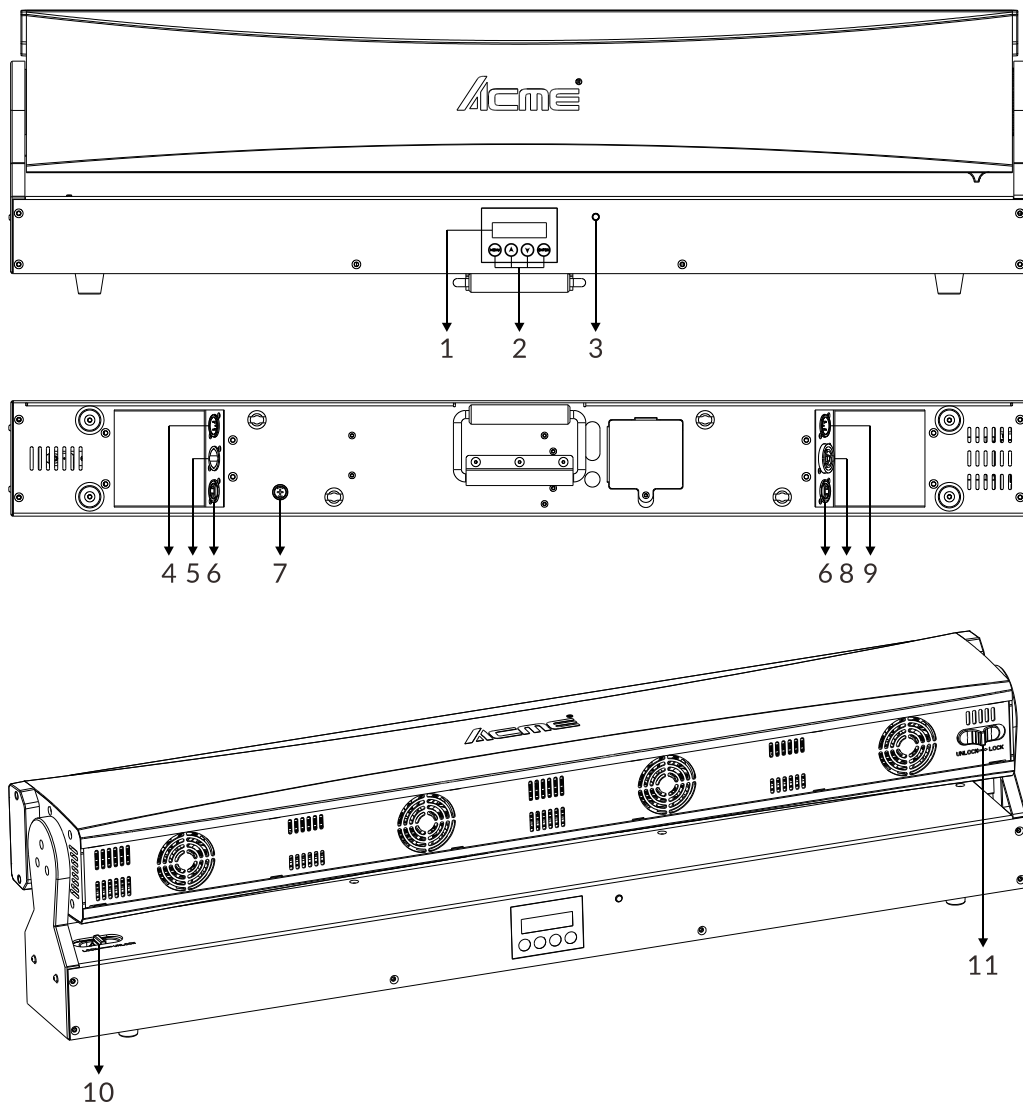
- External sources of light beams from direct sunlight or any other strong light source, which penetrate the front lens of lighting fixtures, can cause severe internal damage. DO NOT expose the fixture front lens to light beams from direct sunlight or any other strong light source from any angle while unpacking, installation, use, and extended idle times outdoors. DO NOT focus a light beam from one lighting fixture directly towards another.



02/ Technical Specifications

AC Power	100-240Vac; 50/60Hz	
Max. Power Consumption	440W	
Light Source	12x30W RGBW LED	
Zoom Range	3.5°-38°	
Tilt Movement	220°	
Control and Programming	DMX Channels	57/14/9+
	Protocols	DMX512
		RDM
		Art-Net
	Firmware Update	via DMX
Construction	Display	OLED display
	Battery backup for user setup without mains connection	
	DMX and RDM Data In/Out	5-pin XLR (optional with 3-pin XLR)
		RJ45 Connectors
	Power In/Out	Power Connector in/out
	Protection Rating	IP20
Dynamic Effects	0-100% continuous dimming and strobe effects	
	Choice of four dimming curves	
	Motorized zoom	
	Outstanding color mixing	
Dimensions	1000x113x278mm	39.4"x4.4"x10.9"
Weight	18.5 kg	40.8 lbs



Photometric Diagram:**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. OFFLINE SETTING		
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. POWER IN	To connect to supply power	
6. ETHERNET	Transfers fixture's information to a main controller	
7. FUSE(T 10A)	Protects the unit from damage of over current or short circuit	
8. POWER OUT	To connect to the next fixture	
9. DMX OUT	For DMX512 link, use 5-pin XLR cable to link the next units to output DMX signal (optional with 3-pin XLR)	
10. BUTTON 1	When splicing the fixtures, push it to the "LOCK" position	
11. BUTTON 2	Tilt lock. Push it to the "UNLOCK" position before powering up the fixture	

Using the control panel with battery power:

The fixture contains a battery that enables you to use the control panel to set up the fixture even when it is not connected to the main power supply. The battery charges during fixture operation. All of the main setup options in the control panel are accessible on battery power, but the 'Auto Test', 'Manual Mode' and 'Reset Function' are not available.

To activate the display when the fixture is not connected to power, press and hold the 'OFFLINE SETTING' button in the front panel for 3 seconds. The display extinguishes after 30 seconds with no user input. Press and hold the 'OFFLINE SETTING' button for 3 seconds again to re-activate.

04/ Connecting Power and Data

4.1 Connecting Power

To apply power, first check that the head tilt lock is released.

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

The maximum power consumption is 440W.

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	$\perp$ or $\oplus$	ground (earth)

CAUTION!

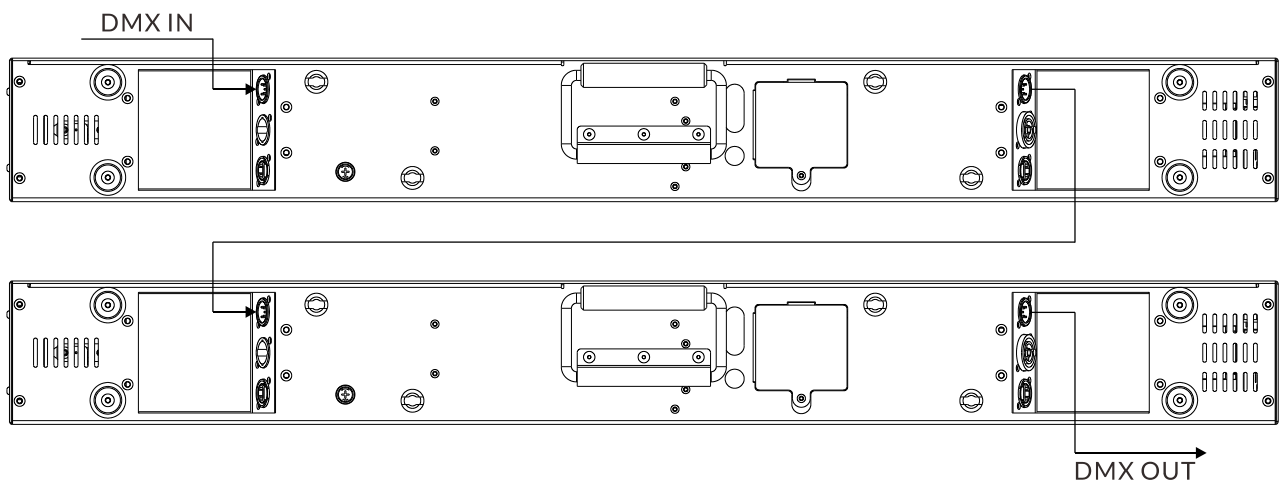
DO NOT CONNECT THE FIXTURE TO AN ELECTRICAL DIMMER SYSTEM AS DOING SO MAY CAUSE DAMAGE.

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:

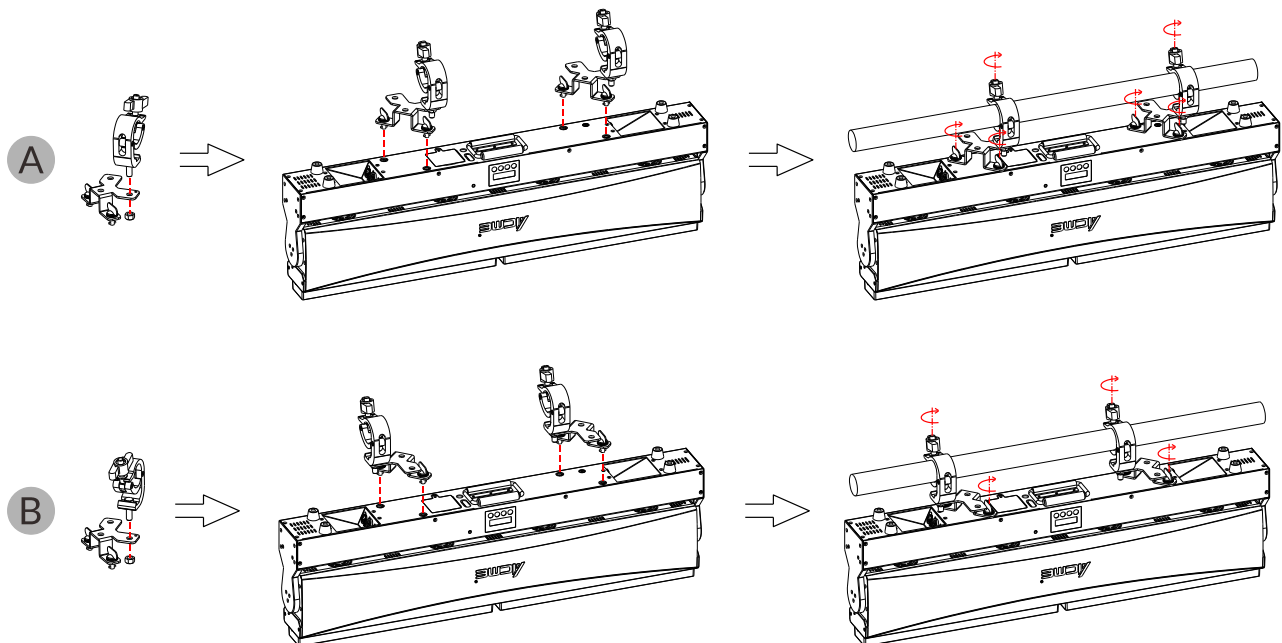
Connect the DMX data output from the controller to the fixture's data input socket. Connect the DMX output of the first fixture in the DMX chain with the DMX input of the next fixture. Always connect one output with the input of the next fixture until all fixtures are connected. Up to 32 fixtures can 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 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 standing on the floor. Always use and install a safety cable as a safety measure to prevent accidental damage and/or injury in the event the clamp fails.

Steps for installing omega brackets to the fixture:



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 Setting	Art-Net Setup	Ethernet IP Setup		IP Address		
				Subnet Mask		
		Art-Net Port Setup		Net	0-127	
				Subnet	0-15	
				Universe	0-15	
	DMX Address	1-456 (57 CH)		(Default=1)		
		1-499 (14 CH)				
		1-504 (9+ CH)				
	Channel Mode	57 CH				
		14 CH				
		9+				
	RDM Device ID					
Mode 3 DMX Addr		1-504 (9+ CH)				
Mode 3 ART Addr		1-465 (9+ CH)				
DMX Last State	Blackout					
	Hold					
	Manu					
Fixture Setting	Light Mode	Color Calibration		Disable		
				Enable		
		Max	White Balance	Red	125-255	
				Green	125-255	
				Blue	125-255	
	Dimmer Curve	Optically Linear				
		Square Law				
		Inverse Square Law				
		S Curve				

MAIN MENU	SUBMENU	CHOICES/VALUES
	Dimmer Speed	Smooth
		Fast
	Invert Tilt	Disable
		Enable
	Tilt Feedback	Disable
		Enable
	Bl. O. Tilt Moving	Disable
		Enable
	Fan Mode	Silent
		Auto
	Invert Pixel Order	Disable
		Enable
Artnet to DMX	Disable	
	Enable	
Auto Test		
Manual Mode	Tilt	0-255
	Zoom	0-255
	Dimmer	0-255
	Strobe	0-255
	Red	0-255
	Green	0-255
	Blue	0-255
	White	0-255
Display Setting	Inverse	No
		Yes
	Temperature Unit	°C
		°F
	Display Warning	Disable
		Enable
	Language	English
		Chinese
Fixture Information	LED Temperature	
	Fixture Usage Time	
	LED Light Time	
	Fan Speed	
	Firmware Version	

MAIN MENU	SUBMENU	CHOICES/VALUES
Reset Function	All	No
		Yes
	Tilt	No
		Yes
	Zoom	No
		Yes
Factory Setting	No	
	Yes	

DMX Setting

Enter the control menu and select **DMX Setting**, press ENTER. Use the UP/DOWN button to select **Art-Net Setup**, **DMX Address**, **Channel Mode**, **RDM Device ID**, **Mode 3 DMX Addr** or **Mode 3 ART Addr**.

Art-Net Setup

Select **Art-Net Setup**, press ENTER.

Use UP/DOWN button to select **Ethernet IP Setup** or **Artnet Port Setup**, confirm your selection with ENTER.

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

DMX Address

Select **DMX Address**, press ENTER.

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

CHANNEL MODE	ADDRESS
57 CH	1-456
14 CH	1-499
9+	1-504

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

Channel Mode

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

Use UP/DOWN button to select between **57 CH**, **14 CH** and **9+**, confirm your selection with ENTER.

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

RDM Device ID

Select **RDM Device ID**, press ENTER.

The RDM device ID is displayed.

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

Mode 3 DMX Addr

Select **Mode 3 DMX Addr**, press ENTER.

Use UP/DOWN button to select a DMX address from 1 to 504, confirm your selection with ENTER.

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

Mode 3 ART Addr

Select **Mode 3 ART Addr**, press ENTER.

Use UP/DOWN button to select a Artnet address from 1 to 465, confirm your selection with ENTER.

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

DMX Last State

Select **DMX Last State**, 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 Mode' menu)

Confirm your selection with ENTER.

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

Fixture Setting

Enter the control menu and select **Fixture Setting**, press ENTER. Use the UP/DOWN button to select **Light Mode**, **Dimmer Curve**, **Dimmer Speed**, **Invert Tilt**, **Tilt Feedback**, **Bl. O. Tilt Moving**, **Fan Mode**, **Invert Pixel Order** or **Artnet to DMX**.

Light Mode

Select **Light Mode**, press ENTER.

Use UP/DOWN button to select **Color Calibration** or **Max**, confirm your selection with ENTER.

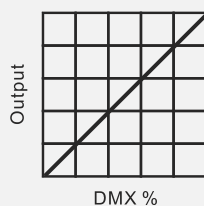
To exit the menu, press MENU, or wait 30 seconds.

Dimmer Curve

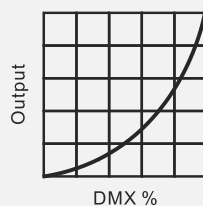
Select **Dimmer Curve**, press ENTER.

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

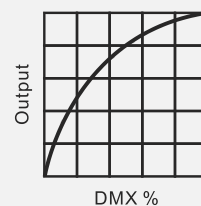
Dimmer Modes



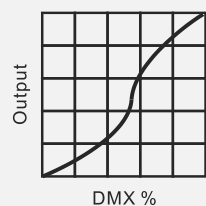
Optically Linear



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 **Smooth** or **Fast**, confirm your selection with ENTER.

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

Invert Tilt

Select **Invert Tilt**, press ENTER.

Use UP/DOWN button to select **Disable** (tilt invert deactivated) or **Enable** (tilt invert activated), confirm your selection with ENTER.

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

Tilt Feedback

Select **Tilt Feedback**, press ENTER.

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

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

Bl. O. Tilt Moving

Select **Bl. O. Tilt Moving**, press ENTER.

Use UP/DOWN button to select **Disable** (blacks out while tilt move deactivated) or **Enable** (blacks out while tilt move 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 **Silent** or **Auto**, confirm your selection with ENTER.

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

Invert Pixel Order

Select **Invert Pixel Order**, press ENTER.

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

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

Artnet to DMX

Select **Artnet to DMX**, press ENTER.

Use UP/DOWN button to select **Disable** or **Enable**, 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.

Manual Mode

Select **Manual Mode**, 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.)

Display Setting

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

Inverse

Select **Inverse**, 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.

Display Warning

Select **Display Warning**, press ENTER.

Use UP/DOWN button to select **Disable** or **Enable**, 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 Information

Enter the control menu and select **Fixture Information**, press ENTER. Use the UP/DOWN button to select **LED Temperature**, **Fixture Usage Time**, **LED Light Time**, **Fan Speed** or **Firmware Version**.

LED Temperature

Select **LED Temperature**, press ENTER.

The device temperature is displayed.

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

Fixture Usage Time

Select **Fixture Usage Time**, press ENTER.

The operating hours is displayed.

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

LED Light Time

Select **LED Light Time**, press ENTER.

The LED operating hours is displayed.

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

Fan Speed

Select **Fan Speed**, press ENTER.

The fan speed 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 Function

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

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.

Tilt

Select **Tilt**, press ENTER.

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

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

Zoom

Select **Zoom**, press ENTER.

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

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

Factory Setting

Select **Factory Setting**, 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			✓
TILT_INVERT		✓	✓
PAN_TILT_FEEDBACK		✓	✓
RESET_DEVICE		✓	
CURVE		✓	✓
CURVE_DESCRIPTION			✓
DMX_STATE		✓	✓
DIMMER_SPEED		✓	✓
COOLING_MODE		✓	✓
BLACKOUT_WHEN_PANTILT_MOVE		✓	✓
INVERT_PIXEL_ORDER		✓	✓

✓ -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 [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
Motor Offset	Tilt Offset		-128~127
	Zoom 1 Offset		-128~127
	Zoom 2 Offset		-128~127
White Balance	White Balance 1	Red	125~255
		Green	125~255
	White Balance 12	Blue	125~255

Motor Offset

Select **Motor Offset**, press ENTER.

Use UP/DOWN button to select **Tilt Offset**, **Zoom 1 Offset** or **Zoom 2 Offset**, confirm your selection with 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.

White Balance

Select **White Balance**, press ENTER.

Use UP/DOWN button to select **White Balance 1**, **White Balance 2**,..... or **White Balance 12**, confirm your selection with 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 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 57 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 58. As the first fixture uses all the first 57 DMX channels, the next available channel is 58 ($57+1=58 >> 58$).

See the chart below for more details:

Channel Mode	Unit 1 Address	Unit 2 Address	Unit 3 Address	Unit 4 Address	Unit xxx Address
57 channels	1	58	105	162	
14 channels	1	15	29	43	
9+ channels (Controlled by DMX)	1	10	19	28	
9+ channels (Controlled by Art-Net)	1	49	97	145	

7.2 DMX Protocol

CHANNEL			VALUE	FUNCTION
57ch	14ch	9+ch		
		Controlled by DMX		
1	1	1	000-255	Tilt 0°→220°
2	2	2	000-255	Tilt Fine
3		3	000-007 008-247 248-255	Tilt Speed Auto Speed Slow to Fast Auto Speed
	3		000-255	Zoom 0%→100%
4		4	000-255	Zoom 1 0%→100%
5		5	000-255	Zoom 2 0%→100%
6	4	6	000-255	Dimmer 0%→100%
7	5	7	000-255	Dimmer Fine
8	6	8	000-031 032-063 064-095 096-127 128-159 160-191 192-223 224-255	Strobe Closed Open Strobe from fast to slow Open Pulse-effect in sequences Open Random strobe from slow to fast Open
	7		000-008 009-038 039-068 069-098 099-128 129-158 159-187 188-255	Macro Null Macro 1 Macro 2 Macro 3 Macro 4 Macro 5 Macro 6 Macro 7
	8		000-255	Foreground Color 0%→100%
	9		000-255	Background Color 0%→100%

57	14	9	000-040	Special Function (To activate following functions, stop in DMX value for at least 3 seconds.) Null Fan Mode: Silent Fan Mode: Auto Blackout when tilt moving enable Blackout when tilt moving disable Reset All Reset Tilt Reset Zoom Dimmer Speed: Smooth Dimmer Speed: Fast Invert Pixel Order: No Invert Pixel Order: Yes Null
			041-050	
			051-060	
			061-080	
			081-100	
			101-120	
			121-140	
			141-160	
			161-180	
			181-200	
			201-220	
			221-240	
			241-255	
	10		000-255	RED (All) 0%→100%
	11		000-255	GREEN (All) 0%→100%
	12		000-255	BLUE (All) 0%→100%
	13		000-255	WHITE (All) 0%→100%
		Controlled by Art-Net		
9		1	000-255	LED1 RED 0%→100%
10		2	000-255	LED1 GREEN 0%→100%
11		3	000-255	LED1 BLUE 0%→100%
12		4	000-255	LED1 WHITE 0%→100%
13		5	000-255	LED2 RED 0%→100%
14		6	000-255	LED2 GREEN 0%→100%
15		7	000-255	LED2 BLUE 0%→100%
16		8	000-255	LED2 WHITE 0%→100%
17		9	000-255	LED3 RED 0%→100%
18		10	000-255	LED3 GREEN 0%→100%

19		11	000-255	LED3 BLUE 0%→100%
20		12	000-255	LED3 WHITE 0%→100%
21		13	000-255	LED 4RED 0%→100%
22		14	000-255	LED4 GREEN 0%→100%
23		15	000-255	LED4 BLUE 0%→100%
24		16	000-255	LED4 WHITE 0%→100%
25		17	000-255	LED5 RED 0%→100%
26		18	000-255	LED5 GREEN 0%→100%
27		19	000-255	LED5 BLUE 0%→100%
28		20	000-255	LED5 WHITE 0%→100%
29		21	000-255	LED6 RED 0%→100%
30		22	000-255	LED6 GREEN 0%→100%
31		23	000-255	LED6 BLUE 0%→100%
32		24	000-255	LED6 WHITE 0%→100%
33		25	000-255	LED7 RED 0%→100%
34		26	000-255	LED7 GREEN 0%→100%
35		27	000-255	LED7 BLUE 0%→100%
36		28	000-255	LED7 WHITE 0%→100%
37		29	000-255	LED8 RED 0%→100%
38		30	000-255	LED8 GREEN 0%→100%
39		31	000-255	LED8 BLUE 0%→100%
40		32	000-255	LED8 WHITE 0%→100%

41		33	000-255	LED9 RED 0%→100%
42		34	000-255	LED9 GREEN 0%→100%
43		35	000-255	LED9 BLUE 0%→100%
44		36	000-255	LED9 WHITE 0%→100%
45		37	000-255	LED10 RED 0%→100%
46		38	000-255	LED10 GREEN 0%→100%
47		39	000-255	LED10 BLUE 0%→100%
48		40	000-255	LED10WHITE 0%→100%
49		41	000-255	LED11 RED 0%→100%
50		42	000-255	LED11 GREEN 0%→100%
51		43	000-255	LED11 BLUE 0%→100%
52		44	000-255	LED11 WHITE 0%→100%
53		45	000-255	LED12 RED 0%→100%
54		46	000-255	LED12 GREEN 0%→100%
55		47	000-255	LED12 BLUE 0%→100%
56		48	000-255	LED12 WHITE 0%→100%

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.

CPU-B/C/D/E/F 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.

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 damaged.

Tilt Encoder 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 1/2 Reset Error

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

Check whether there are obstacles in the zoom operating range.

Check whether the Hall element on the zoom is damaged.

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

Check whether the motor on the zoom is damaged.

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

Fan 1/2/3/4/5 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.

Check whether the fan circuit on the motherboard breaks down.

Check whether the component is damaged.

Check whether the fan is out of order.

Temperature 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.

Temp. is too High

Check if the fan is working properly.

Check if the fan speed is normal.

Check if the ambient temperature is abnormal.

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.
Tilt is skipping / shuddering	Tilt lock is not released.	Release the tilt lock.
	Obstacles are within the required tilt clearance.	Inspect and remove any obstacles constraining free operation of the 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.

11/ Approvals and Certifications

This product has been tested and found to comply with the following standards:

- 2014/30/EU - Electromagnetic Compatibility (EMC)
- 2014/35/EU - Low Voltage Directive (LVD)



The information in this document is subject to change without notice.

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