Swift1925Z Aura LED Moving Head Beam Wash Light User Manual

Swift Aura LED Moving Head Zoom Light

Swift 1925Z

CE RoHS

User Manual

📖Please read this user manual before using this product!

Keep it for further reference!

http://www.vangaalight.com

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Swift1925Z Aura LED Moving Head Beam Wash Light User Manual

Ⅰ GENERAL

Thank you for using our product! Please read this manual carefully and completely. For technical reference in future, please keep this user manual well. This user manual contains all installation and operation information of this Aura LED Moving Head Wash Light, it's very useful for user to install and operate the light. Please strictly abide by the relevant instruction for the installation and operation.

This light has very beautiful appearance. Our Swift LED Moving Head is a very small and smart light. But the brightness is very powerful. It owns very good light beam, and very wonderful color mixing effect. As a SWIFT light, it's small, but it runs extremely fast. This light is very suitable for bar, disco, stage, theatre, decoration etc.

This light meets the following criteria:

GB7000.1-2007/IEC60598-1:2003

GB7000.217-2008/IEC60598-2-17:1984+A2:1990

Once receiving a fixture, carefully unpack the carton, check the contents to ensure that all parts are presented, and have been received in a good condition. Notify the shipper immediately and retain packing material for inspection if any parts appear damaged from shipping or the carton itself shows, sign of mishandling. Save the carton and all packing materials. In the event that a fixture must be returned to the factory, it is important that the fixture be returned in the original factory box and packing.

Swift 1925Z-N---------1pc

Signal Cable---------1pc

Power Cable --------1pc

User Manual---------1pc

Ⅱ SAFETY INFORMATION

※Important

Every person involved with the installation, operation and maintenance of this device has to be qualified and follow the instructions of this manual. Manufacturer will not with responsibility for those operations which are not according to this Instruction.

- Verify that the voltage matches the rated voltage.
- When the voltage is 110V , Do not connect more than 10 lightings in total to AC mains power in one interconnected daisy chain
- When the voltage is 220V , Do not connect more than 20 lightings in total to AC mains power in one interconnected daisy chain
- Before using the fixture, check that all power distribution equipment and cables are in perfect condition and rated for the current requirements of all connected devices.
- Always ground (earth) the fixture electrically.
- Avoiding hit the Light when you are move or install the light.
- The minimum distance between light-output and the illuminated surface must be more than 0.5 meters. Keep all combustible materials (for example fabric, wood, paper) at least 0.2 meters away from the fixture.
- Do not expose the fixture to rain or moisture.
- Avoid looking directly into the light source (especially those who suffer from epileptic fits)
- Maximum ambient temperature (Ta) is 40°C. Do not operate fixture at temperatures higher than this.
- The Maximum surface temperature is 50°C
- When suspending the fixture above ground level, verify that the structure can hold at least 10 times the weight of all installed devices.
- Verify that all external covers and rigging hardware are securely fastened and use an approved means of secondary attachment such as a safety cable.

To determine the power requirements for a particular fixture, see the label affixed

to the back plate of the fixture or refer to the fixtures specifications chart. A fixture listed current rating is its average current draw under normal conditions. All fixtures must be directly powered off a switched circuit and cannot be run off a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer source voltage matches the fixtures requirement. Check the fixture or device carefully to make sure that if a voltage selection switch exists that it sets to the correct line voltage you will use.

Warning! Verify that the voltage select switch on your unit matches the line voltage applied. Damage to your fixture may result if the line voltage applied does not match the voltage indicated on the voltage selector switch. All fixtures must be connected to circuits with a suitable Earth ground.

Ⅲ OPERATION INSTRUCTIONS

- The moving head is an LED wash light for onsite decoration purpose.
- Don’t turn on the fixture if it’s been through severe temperature difference like after transportation because it might damage the light due to the environment changes. So make sure to operate the fixture until it is in normal temperature.
- This light should be keep away from strong shaking during any transportation or movement.
- Don’t pull up the light by only the head, or it might cause damages to the mechanical parts.
- Don’t expose the fixture in overheat, moisture or environment with too much dust when installing it. And don’t lay any power cables on the floor. Or it might cause electronic shock to the people.
- Make sure the installation place is in good safety condition before installing the

fixture.

- Make sure to put the safety chain and check whether the screws are screwed properly when installing the fixture.
- Make sure the lens are in good condition. It's recommended to replace the units if there are any damages or severe scratch.
- Make sure the fixture is operated by qualified personnel who knows the fixture before using.
- Keep the original packages if any second shipment is needed.
- Don't try to change the fixtures without any instruction by the manufacturer or the appointed repairing agencies.
- It is not in warranty range if there are any malfunctions from not following the user manual to operate or any illegal operation, like shock short circuit, electronic shock, lamp broke, etc.

Ⅳ FEATURES AND SPECIFICATION

◇ Extremely small, fast and powerful LED moving beam.

◇ DMX Channels: 14CH, 27CH channels mode

◇ Operation modes: DMX512, Master/Slave

◇ Great built-in lighting shows under Master/Slave mode

◇ Blue LCD display for easy navigation

◇ Perfect for stage, theatre, TV studio, rental and discotheques

Voltage: AC 100V~240V, 50/60Hz

Power consumption: 500W

LED: 19 X 25W RGBW LED

Dimension: 348X264X381mm

Weight: 9.2Kgs

Beam angel: 10°~60°

Ⅴ DIMENSION

Unit: mm

Ⅵ INSTALLATION AND CONNECTION

1. Installation

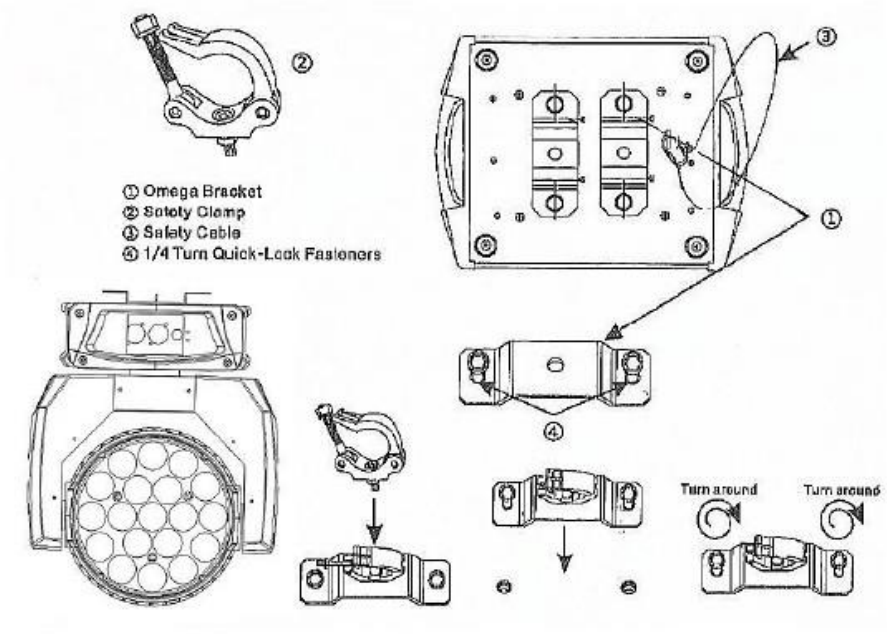
Be sure to install this product should be at least 0.5 m from the flammable materials

Screw one clamp each via a M12 screw and nut onto the Omega holders.

Insert the quick-lock fasteners of the first Omega holder into the respective holes on the bottom of the device. Tighten the quick-lock fasteners fully clockwise. Install the second

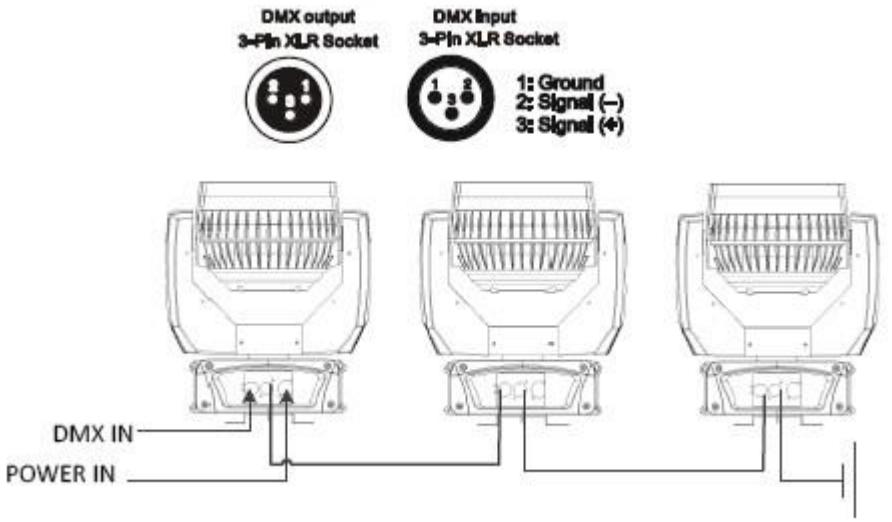
Omega holder.

Pull the safety-rope through the holes on the bottom of the base and over the trussing system or a safe fixation spot. Insert the end in the cabinet and tighten the safety screw. Please refer to the picture below:



2. DMX connection

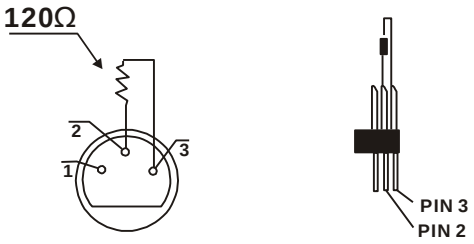
Connect the provided XLR cable to the female 3-pin XLR output of your controller and the other side to the male 3-pin XLR input of the moving head. You can chain multiple Moving head together through serial linking. The cable needed should be two core, screened cable with XLR input and output connectors. Please refer to the diagram below.



Address 31 Address16 Address 1

DMX-512 CONNECTION WITH DMX TERMINATOR

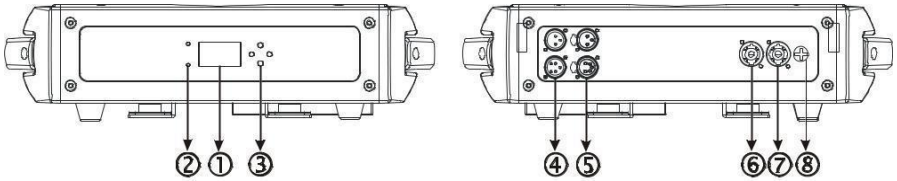
For installations where the DMX cable has to run a long distance or is in an electrically noisy environment, such as in a discotheque, it is recommended to use a DMX terminator. This helps in preventing corruption of the digital control signal by electrical noise. The DMX terminator is simply an XLR plug with a 120 Ω resistor connected between pins 2 and 3,which is then plugged into the output XLR socket of the last fixture in the chain. Please see illustrations below:



Ⅶ OPERATION AND CONTROL

1. Control panel

Display:



To show the various menus and the selected functions

LED:

POWER	ON	Power on
DMX	ON	DMX input present

Button:

MENU	To select the programming functions
DOWN	To go backward in the selected functions
UP	To go forward in the selected functions
ENTER	To confirm the selected functions

DMX input:

For DMX512 link, use 3/5-pin XLR cable to link the unit together.

DMX output:

For DMX512 link, use 3/5-pin XLR cable to link the unit together.

Mains input:

Connect to power supply.

Mains output:

Connect to supply power to the next unit.

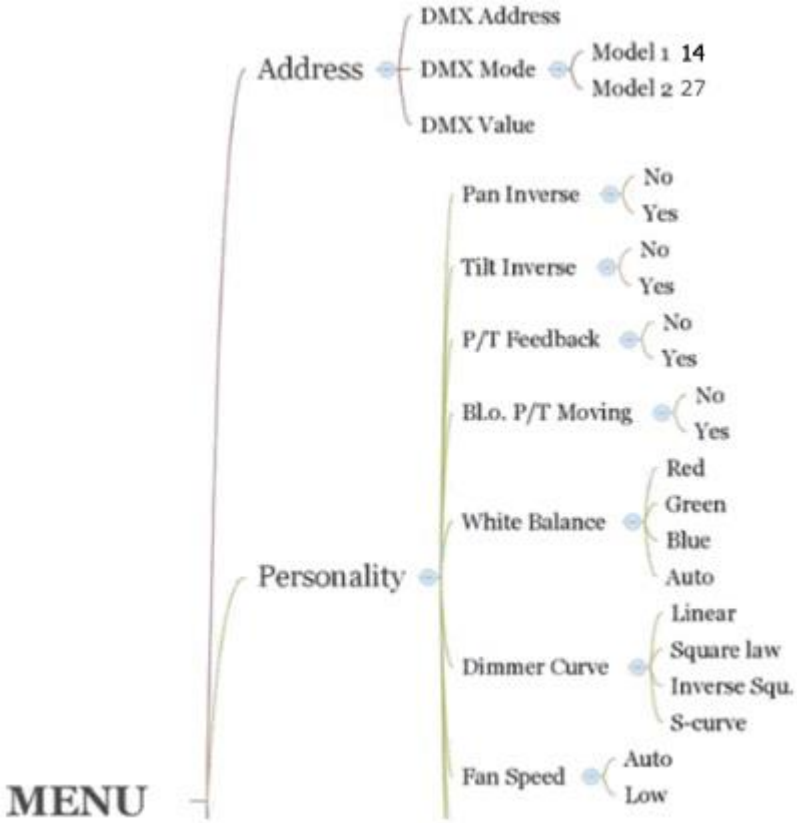
Fuse (T 6.3A):

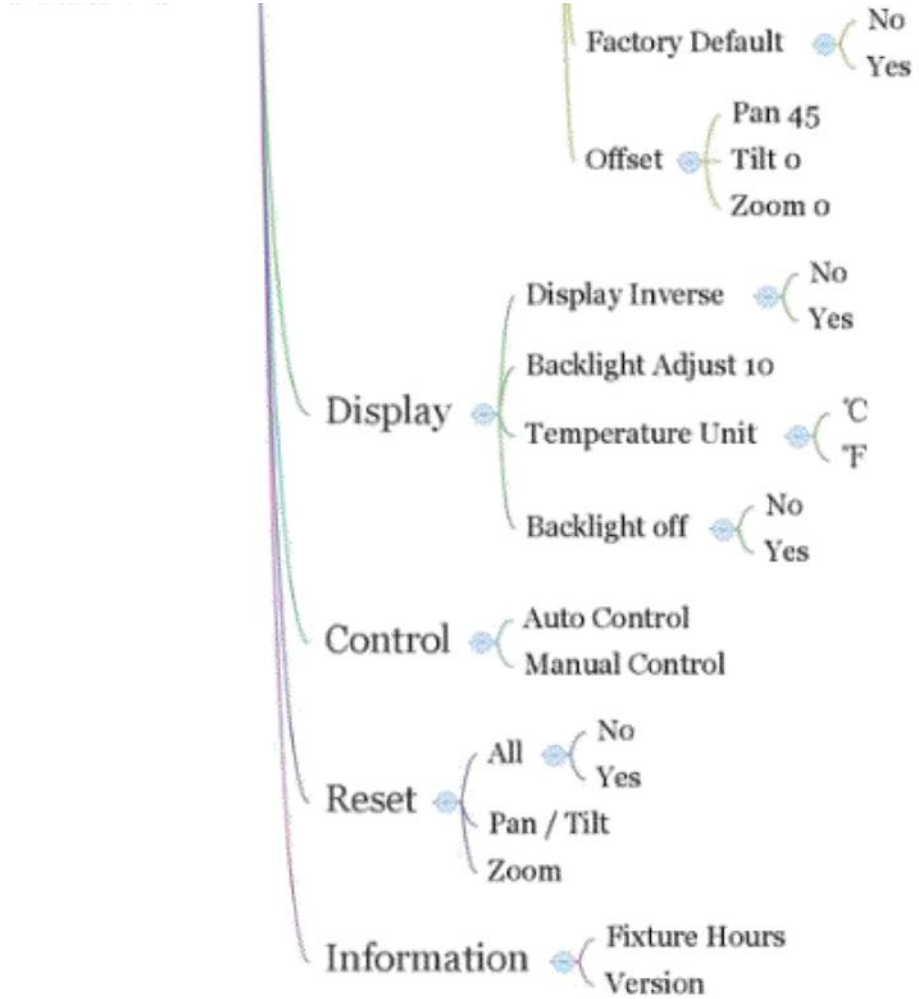
Protect the unit from damage of the over-current.

2. Main Functions

To select any of the given functions, press the **MENU** button up to when the required one is showing on the display. Select the function by **ENTER** button and the display will blink. Use **DOWN** and **UP** button to change the mode. Once the required mode has been selected, press the **ENTER** button to setup, to go back to the functions without any change press the **MENU** button again. Hold and press the **MENU** button about one second or wait for one minute to exit the menu mode.

The main functions are showing below:





DMX Functions

Enter **MENU** mode, select DMX Functions, press **ENTER** button to confirm, use **UP** and **DOWN** button to select DMX Address, DMX Channel Mode or View DMX Value.

DMX Address

Select DMX Address, press **ENTER** button to confirm, the present address will blink

on the display, use **UP** and **DOWN** button to adjust the address from 1 to 512, press **ENTER** button to store. Press **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

View DMX Value

Select View DMX Value, press **ENTER** button to confirm. Channel function and its value will show on the display, use **UP** and **DOWN** button to view other DMX value. Press **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

Fixture Setting

Enter MENU mode, select Fixture Setting, press **ENTER** button to confirm, then use **UP** and **DOWN** button to select Pan Inverse, Tile Inverse, P/T Feedback, BL.O. P/T Moving, White Balance, Cooling Mode or Dimmer Curve.

Pan Inverse

Select Pan Inverse, press **ENTER** button to confirm, present mode will blink on the display, use **UP** and **DOWN** button to select No (normal) or Yes (pan inverse), press **ENTER** button to store. Press **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

Tilt Inverse

Select Tilt Inverse, press **ENTER** button to confirm, present mode will blink on the display, use **UP** and **DOWN** button to select No (normal) or Yes (tilt inverse), press **ENTER** button to store. Press **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

P/T Feedback — Pan/Tilt Feedback

Select P/T Feedback, press **ENTER** button to confirm, present mode will blink on the display, press **UP**/**DOWN** button to select No (Pan or tilt's position will not feedback while out of step) or Yes (Feedback while pan/tilt out of step), press **ENTER** button to store. Press **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

BL.O. P/T Moving — Blackout while pan/tilt moving

Select BL.O. P/T Moving, Press **ENTER** button to confirm, present mode will blink on the display, use **UP** and **DOWN** button to select No (normal while pan/tilt moving) or Yes (blackout while pan/tilt moving), press **ENTER** button to store. Press **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

White Balance

Select White Balance, press **ENTER** button to confirm, present mode will blink on the display, use **UP** and **DOWN** button to select Red, Green or Blue, Once selected, press **ENTER** button, then use **UP** and **DOWN** button to adjust the value from 125 to 255, press **ENTER** button to store. Press **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

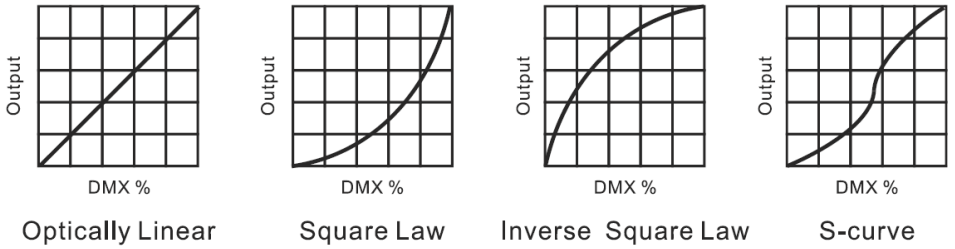
Cooling Mode

Select Cooling Mode, press **ENTER** button to confirm, present mode will blink on the display, use **UP** and **DOWN** button to select Auto (Normal) or Low (Low speed), Once selected, press **ENTER** button to store. Press **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

Dimmer Curve

Select Dimmer Curve, press **ENTER** button to confirm, present mode will blink on the display, use **UP** and **DOWN** button to select Linear, Square Law, Inverse Squ. or S-curve, Once selected, press **ENTER** button to store. Press **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

Dimmer Modes



Linear: The increase in light intensity appears to be linear as DMX value is increased.

Square Law: Light intensity control is finer at low levels and coarser at high levels.

Inverse Square Law: Light intensity control is coarser at low levels and finger at high levels.

S-cure: Light intensity control is finger at low levels and high levels and coarser at medium levels.

Display Setting

Enter **MENU** mode, select Display Setting, press **ENTER** button to confirm, use **UP** and **DOWN** button to select Display Inverse, Backlight Auto Off, Backlight Intensity ,Temperature unit, Display Warning or Language.

Display Inverse

Select Display Inverse, press **ENTER** button to confirm, present mode will blink on the display, use **UP** and **DOWN** button to select No (normal display) or Yes (inverse display), press **ENTER** button to store. Press **MENU** button back to the last menu or let

the unit idle one minute to exit menu mode.

Backlight Auto Off

Select Backlight Auto Off, press **ENTER** button to confirm, present mode will blink on the display, use **UP** and **DOWN** button to select No (display always on) or Yes (display goes off one minute after exiting menu mode), press **ENTER** button to store. Press **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

Backlight Intensity

Select Backlight Intensity, press **ENTER** button to confirm, present mode will blink on the display, use **UP** and **DOWN** button to adjust backlight intensity from 1 (dark) to 10 (bright), press **ENTER** button to store. Press **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

Temperature Unit

Select Temperature Unit, press **ENTER** button to confirm, present mode will blink on the display, use **UP** and **DOWN** button to select ℃ or ℉, press **ENTER** button to store. Press **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

Display Warning

Select Display Warning, press **ENTER** button to confirm, present mode will blink on the display, use **UP** and **DOWN** button to select No (Normal) or Yes (display will show the error warning when the unit went wrong). Press **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

Language

Select Language, press **ENTER** button to confirm, present mode will blink on the display, use **UP** and **DOWN** button to select English or Chinese. Press **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

Fixture Test

Enter MENU mode, select Fixture Test, press **ENTER** button to confirm, use **UP** and **DOWN** button to select Auto Test or Manual Test

Auto Test

Select Auto Test, press **ENTER** button to confirm, the unit will run built-in programs to automatically test pan, tilt, color, gobo, shutter, dimmer, prism, red, green, blue, white, CTC, frost, focus, and lamp on/off. Press MENU button back to the last menu or exit menu mode after auto test.

Manual Test

Select Manual Test, press **ENTER** button to confirm, the present channel will show on the display, use **UP** and **DOWN** button to select channel, press **ENTER** button to confirm, then use **UP** and **DOWN** button to adjust the value, press **ENTER** button to store, the fixture will run as the channel value indicates. Press **MENU** button back to the last menu or exit menu mode let the unit idle one minute.
(All channels value will become 0 after exiting Manual Test menu)

Fixture Information

Enter MENU mode, select Fixture Information, press **ENTER** button to confirm, use **UP** and **DOWN** button to select Fixture use time, Lamp on time or Firmware Version.

Fixture use time

Select Fixture Use Time, press **ENTER** button to confirm, fixture use time will show on the display, press **MENU** button to exit.

Lamp on time

Select Lamp on time, press **ENTER** button to confirm, lamp on time will show on the display, press **ENTER** button to confirm, use **UP** and **DOWN** button to select Exit or Reset Time, press **ENTER** button to confirm. Press **MENU** button back to the last menu or exit menu mode let the unit idle one minute.

Firmware Version

Select Firmware Version, press **ENTER** button to confirm, firmware version will show on the display, press **MENU** button back to exit.

Reset Functions

Enter MENU mode, select Reset Function, press **ENTER** button to confirm, use **UP** and **DOWN** button to select Pan/Tilt, Zoom or All.

Pan/Tilt— Reset Pan/Tilt

Select Pan/Tilt, press **ENTER** button to confirm, use **UP** and **DOWN** button to select Yes (the unit will run built-in program to reset pan and tilt to their home positions) or No, press **ENTER** button to store. Press **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

Zoom— Reset Zoom

Select Zoom, press **ENTER** button to confirm, use **UP** and **DOWN** button to select Yes (the unit will run built-in program to reset Zoom to their home positions) or No, press

ENTER button to store. Press **MENU** button to exit.

All— Reset All

Select All, press **ENTER** button to confirm, use **UP** and **DOWN** button to select Yes (the unit will run built-in program to reset all motors to their home positions) or No, press **ENTER** button to store. Press **MENU** button to exit.

Special Functions

Enter MENU mode, select Special Functions, press **ENTER** button to confirm, use **UP** and **DOWN** button to select Fixture Maintenance or Factory Setting.

Fixture Maintenance

Select Fixture Maintenance, press **ENTER** button to confirm, use **UP** and **DOWN** button to select Interval or Remain Time.

Interval

Select Interval, press **ENTER** button to confirm, the interval time will show on the display. Press **MENU** button to exit.

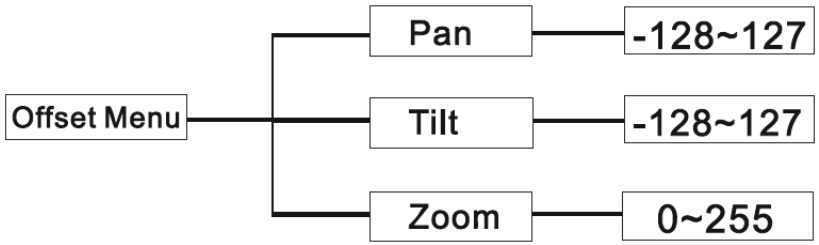
Remain Time

Select Remain Time, press **ENTER** button to confirm, the remaining time will show on the display, press **ENTER** button to confirm, use **UP** and **DOWN** button to select Exit or Reset time, press **MENU** button to exit.

Factory Setting

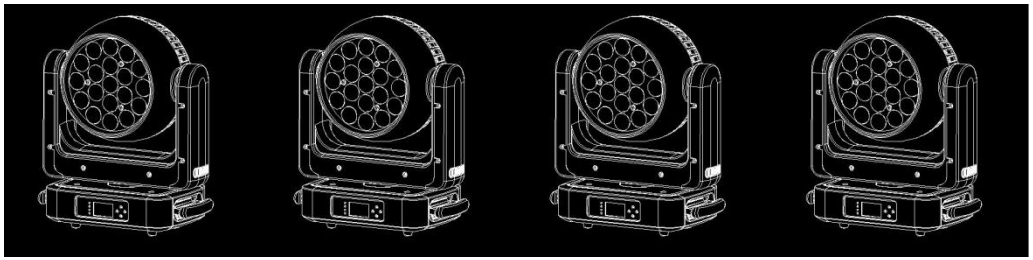
Select Factory Setting, press **ENTER** button to confirm, the fixture will reset to factory settings and exit menu mode.

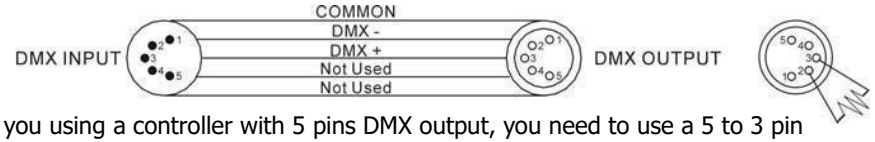
3. Home Position Adjust



In the main functions, hold **Enter** button for at least 3 seconds into offset mode, use **DOWN** and **UP** button up to chose Pan Offset, Tilt Offset or Zoom Offset, pressing **ENTER** button and the display will blink. Use **DOWN** and **UP** button to adjust the home position of the Pan, Tilt or Zoom, Once the position has been selected, press the **ENTER** button to setup, to go back to the functions without any change press the **MENU** button again. Hold and press the **MENU** button about one second or wait for one minute to exit the menu mode.

4. Control By Universal DMX Controller





1. If you using a controller with 5 pins DMX output, you need to use a 5 to 3 pin adapter-cable.

2. The last units DMX cable has to be terminated with a 120 ohm 1/4W resistor between pin 2(DMX-) and pin 3(DMX+) of a 3-pin XLR-plug and plug it in the DMX-output of the last unit.
3. Connect the unit together in a `daisy chain` by XLR plug from the output of the unit to the input of the next unit. The cable can not branched or split to a `Y` cable. 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.
4. The DMX output and input connectors are pass-through to maintain the DMX circuit, when one of the units' power is disconnected.
5. Each fixture unit needs to have an address set to receive the data sent by the controller. The address number is between 0-511 (usually 0 & 1 are equal to 1).
6. The end of the DMX 512 system should be terminated to reduce signal errors.
7. 3 pin XLR connectors are more popular than 5 pin 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 (+),
   Pin 4/Pin 5: Not used.

Ⅷ ADDRESS SETTING AND DMX CHANNEL OPERATION

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

Press **MENU** button to enter menu mode, select DMX Functions, press **ENTER** button to confirm, use **UP** and **DOWN** button to select DMX Address, press **ENTER** button to confirm, the present address will blink on the display, use **UP** and **DOWN** button to adjust

the address from 0 to 512, press **ENTER** button to store. Press **MENU** button back to the last menu or let the unit idle 7 seconds to exit menu mode.

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
14 channels	1	14	28	42
27 channels	1	27	53	79

14 DMX Channels mode

DMX CH	DMX Value	Function
CH1		**Beam electronic shutter effect**
	000←→019	Shutter closed
	020←→024	Shutter open
	025←→064	Strobe 1(fast-slow)
	065←→069	Shutter open
	070←→084	Strobe 2: opening pulse (fast-slow)
	085←→089	Shutter open
	090←→104	Strobe 3: closing pulse (fast-slow)
	105←→109	Shutter open
	110←→124	Strobe 4: random strobe (fast-slow)
	125←→129	Shutter open
	130←→144	Strobe 5: random opening pulse (fast-slow)
	145←→149	Shutter open
	150←→164	Strobe 6: random closing pulse (fast-slow)
	165←→169	Shutter open
	170←→184	Strobe 7: burst pulse (fast-slow)
	185←→189	Shutter open
	190←→204	Strobe 8: random burst pulse (fast-slow)
	205←→209	Shutter open
	210←→224	Strobe 9: sine wave (fast-slow)
	225←→229	Shutter open
	230←→229	Strobe burst (fast-slow)
	230←→255	Shutter open
CH2		**Beam dimmer**
	000←→255	0-100% intensity
CH3		**Zoom**
	000←→255	Wide-narrow
CH4		**Pan**
	000←→255	Pan 0-540degree
CH5		**Pan fine**
	000←→255	Pan fine adjustment
CH6		**Tilt**
	000←→255	Tilt 0-232degree
CH7		**Tilt fine**
	000←→255	Tilt fine adjustment
CH8		**Fixture control settings**
	000←→009	*No function*
	010←→014	Reset entire fixture[1]
	015←→039	*No function*
	040←→044	PTSP = NORM[2]
	045←→049	PTSP = FAST[2]
	050←→054	PTSP = SLOW[2]
	055←→059	*No function*
	060←→064	Fan mode FULL[2]
	065←→069	*No function*

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	070←→074	Fan mode REGULATED[2]
	075←→089	*No function*
	090←→094	RGB color mode: fully calibrated color output, same gamut for all Mac Aura XBs[3]
	095←→099	EXTENDED color mode: calibrated white point with extended color saturation, saturated colors may not be exactly identical[3]
	100←→104	RAW color mode: compatible with standard MAC Aura fixtures, max. output set to standard MAC Aura level[3]
	105←→109	*No function*
	110←→114	Fast dimming: speed of intensity changes unrestricted[2]
	115←→119	*No function*
	120←→124	Smooth dimming: speed of intensity changes restricted slightly[2]
	125←→129	*No function*
	130←→134	Video dimming: instant intensity changes, optimized for video
	135←→249	*No function*
	250←→255	Illuminate display
		[1]If DMX Reset is disabled in the menu, a reset command can only be executed if channel 2 is set to 232 and channel 1 is set to zero. These values need to be held for 5 seconds before feature is activated. Values must be "snapped to" to function.
		[2]Menu override: setting unaffected by power off/on.
		[3]Value must be held for 3 seconds to activate. Setting unaffected by power off/on.
CH9		**Beam color wheel effect**
	000←→009	Open, RGBW color mixing enabled
	010←→014	LEE 790-Moroccan pink

	015←→019	LEE 157-Pink
	020←→024	LEE 332-Special rose pink
	025←→029	LEE 328-Follies pink
	030←→034	LEE 345-Fuchsia pink
	035←→039	LEE 194-Surprise pink
	040←→044	LEE 181-Congo blue
	045←→049	LEE 071-Tokyo blue
	050←→054	LEE 120-Deep blue
	055←→059	LEE 079-Just blue
	060←→064	LEE 132-Medium blue
	065←→069	LEE 200-Double CT blue
	070←→074	LEE 161-State blue
	075←→079	LEE 201-Full CT blue
	080←→084	LEE 202-Half CT blue
	085←→089	LEE 117-Steel blue
	090←→094	LEE 353-Lighter blue
	095←→099	LEE 118-Light blue
	100←→104	LEE 116-Medium blue green
	105←→109	LEE 124-Dark green
	110←→114	LEE 139-Primary green
	115←→119	LEE 089-Moss green
	120←→124	LEE 122-Fern green
	125←→129	LEE 738-JAS green
	130←→134	LEE 088-Lime green
	135←→139	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
		Color rotation effect
	180←→201	Clockwise, fast to slow
	202←→207	Stop(this will stop wherever the color is at the time)
	208←→229	Counter-clockwise, slow to fast
	230←→234	Open
		Random color
	235←→239	Fast
	240←→244	Medium
	245←→249	Slow
	250←→255	Open
CH10	000←→255	**Beam red** Red 0-100%
CH11	000←→255	**Beam green** Green 0-100%
CH12	000←→255	**Beam blue** Blue 0-100%
CH13	000←→255	**Beam white** White 0-100% *Only available when the fixture is set to RAW mode*
CH14	000←→019	**Beam CTC(Color Temperature Control)** CTC disabled
	020←→255	CTC 10000K-2500K

27 DMX Channels mode

DMX CH	DMX Value	Function
CH1	000←→255	**Pan** Pan 0-540degree
CH2	000←→255	**Pan fine** Pan fine adjustment
CH3	000←→255	**Tilt** Tilt 0-232degree
CH4	000←→255	**Tilt fine** Tilt fine adjustment
CH5	000←→255	**Pan/tilt speed** Fast---slow
CH6	000←→255	**Zoom** Wide-narrow
CH7	000←→009 010←→014 015←→255	**Special function** No function Reset No function
CH8	000←→255	**Dimmer** 0%-100%
CH9	000←→019 020←→024 025←→064 065←→069 070←→084	**Beam electronic shutter effect** Shutter closed Shutter open Strobe 1(fast-slow) Shutter open Strobe 2: opening pulse (fast-slow)

	085←→089	Shutter open
	090←→104	Strobe 3: closing pulse (fast-slow)
	105←→109	Shutter open
	110←→124	Strobe 4: random strobe (fast-slow)
	125←→129	Shutter open
	130←→144	Strobe 5: random opening pulse (fast-slow)
	145←→149	Shutter open
	150←→164	Strobe 6: random closing pulse (fast-slow)
	165←→169	Shutter open
	170←→184	Strobe 7: burst pulse (fast-slow)
	185←→189	Shutter open
	190←→204	Strobe 8: random burst pulse (fast-slow)
	205←→209	Shutter open
	210←→224	Strobe 9: sine wave (fast-slow)
	225←→229	Shutter open
	230←→229	Strobe burst (fast-slow)
	230←→255	Shutter open
CH10	000←→255	RING 1 RED (0%-100%)
CH11	000←→255	RING 1 GREEN (0%-100%)
CH12	000←→255	RING 1 BLUE (0%-100%)
CH13	000←→255	RING 1 WHITE (0%-100%)
CH14		**RING 1 COLOR PRESET**
	000←→009	Open
	010←→017	Color1
	018←→024	Color2
	025←→032	Color3
	033←→039	Color4

	040←→047	Color5
	048←→054	Color6
	055←→061	Color7
	062←→069	Color8
	070←→076	Color9
	077←→084	Color10
	085←→091	Color11
	092←→099	Color12
	100←→106	Color13
	107←→113	Color14
	114←→121	Color15
	122←→128	Color16
	129←→136	Color17
	137←→143	Color18
	144←→151	Color19
	152←→158	Color20
	159←→165	Color21
	166←→173	Color22
	174←→180	Color23
	181←→188	Color24
	189←→195	Color25
	196←→203	Color26
	204←→210	Color27
	211←→217	Color28
	218←→225	Color29
	226←→232	Color30
	233←→240	Color31

	241←→247	Color32
	248←→255	Color33
CH15	000←→255	RING 2 RED (0%-100%)
CH16	000←→255	RING 2 GREEN (0%-100%)
CH17	000←→255	RING 2 BLUE (0%-100%)
CH18	000←→255	RING 2 WHITE (0%-100%)
CH19	000←→255	**RING 2 COLOR PRESET** (The same as CH14: RING 1 COLOR PRESET)
CH20	000←→255	RING 3 RED (0%-100%)
CH21	000←→255	RING 3 GREEN (0%-100%)
CH22	000←→255	RING 3 BLUE (0%-100%)
CH23	000←→255	RING 3 WHITE (0%-100%)
CH24	000←→255	**RING 3 COLOR PRESET** (The same as CH14: RING 1 COLOR PRESET)
CH25		**RING COLOR MACRO**
	000 - 007	Blackout
	008 - 022	Macro1
	023 - 037	Macro2
	038 - 052	Macro3
	053 - 067	Macro4
	068 - 082	Macro5
	083 - 097	Macro6
	098 - 112	Macro7
	113 - 127	Macro8
	128 - 142	Macro9
	143 - 157	Macro10
	158 - 172	Macro11

	173 - 187	Macro12
	188 - 202	Macro13
	203 - 217	Macro14
	218 - 232	Macro15
	233 - 247	Macro16
	248 - 255	Mocro17
CH26	000←→255	**COLOR MACRO SPEED** Slow fast
CH27	000←→019	**Beam CTC(Color Temperature Control)** CTC disabled
	020←→255	CTC 10000K-2500K

Ⅸ TROUBLE SHOOTING

Following are a few common problems that may occur during operation. Here are some suggestions for easy troubleshooting:

A. The unit does not work, no light and the fan does not work

1. Check the connection of power and main fuse.
2. Measure the mains voltage on the main connector.
3. Check the power on LED.

B. Not responding to DMX controller

1. DMX LED should be on. If not, check DMX connectors, cables to see if link properly.
2. If the DMX LED is on and no response to the channel, check the address settings and DMX polarity.
3. If you have intermittent DMX signal problems, check the pins on connectors or on PCB of the unit or the previous one.
4. Try to use another DMX controller.
5. Check if the DMX cables run near or run alongside to high voltage cables that may cause damage or interference to DMX interface circuit.

C. One of the channels is not working well

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

X MAINTENANCE AND CLEANING

The cleaning of internal and external optical lenses and/or mirrors must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates: damp, smoky or particularly dirty surrounding can cause greater accumulation of dirt on the unit's optics.

☐ Clean with soft cloth using normal glass cleaning fluid.
☐ Always dry the parts carefully.
☐ Clean the external optics at least every 20 days. Clean the internal optics at least every 30/60 days.

The following points have to be considered during the inspection:

1) All screws for installing the devices or parts of the device have to be tightly connected and must not be corroded.
2) There must not be any deformations on the housing, color lenses, fixations and installation spots (ceiling, suspension, trussing).
3) Mechanically moved parts must not show any traces of wearing and must not rotate with unbalances.
4) The electric power supply cables must not show any damage, material fatigue or sediments.

Further instructions depending on the installation spot and usage have to be adhered by a skilled installer and any safety problems have to be removed.

In order to make the lights in good condition and extend the life time, we suggest a regular cleaning to the lights.

1) Clean the inside and outside lens each week to avoid the weakness of the lights due to accumulation of dust.
2) Clean the fan each week.
3) A detailed electric check by approved electrical engineer each three month, make sure that the circuit contacts are in good condition, prevent the poor contact of circuit from overheating.

We recommend a frequent cleaning of the device. Please use a moist, lint- free cloth. Never use alcohol or solvents.

There are no serviceable parts inside the device. Please refer to the instructions under "Installation instructions".

Should you need any spare parts, please order genuine parts from your local dealer.

Please keep this manual as a reference.

Thanks again for your business. We truly appreciate it!