Swift Aura LED Moving Head Zoom Light

Swift 1915Z

CE RoHS

User Manual

📖Please read this user manual before using this product！

Keep it for further reference!

http://www.vangaa.com

INDEX

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 1915Z---------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: 14 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
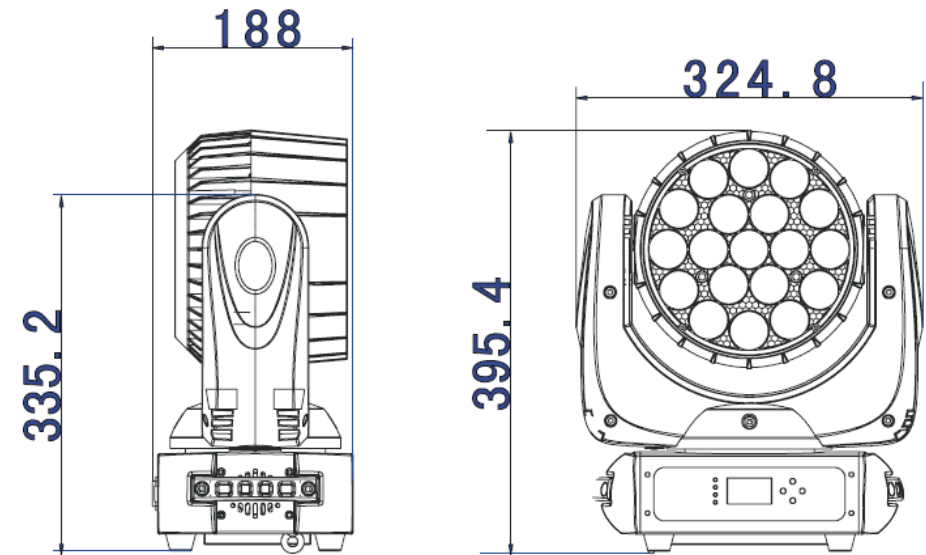
Voltage: AC 100V~240V, 50/60Hz

Power consumption: 245W

LED: 19 X 12W RGBW LED

Dimension: 430X370X295mm

Weight: 9.2Kgs

Beam angel: 10°~60°

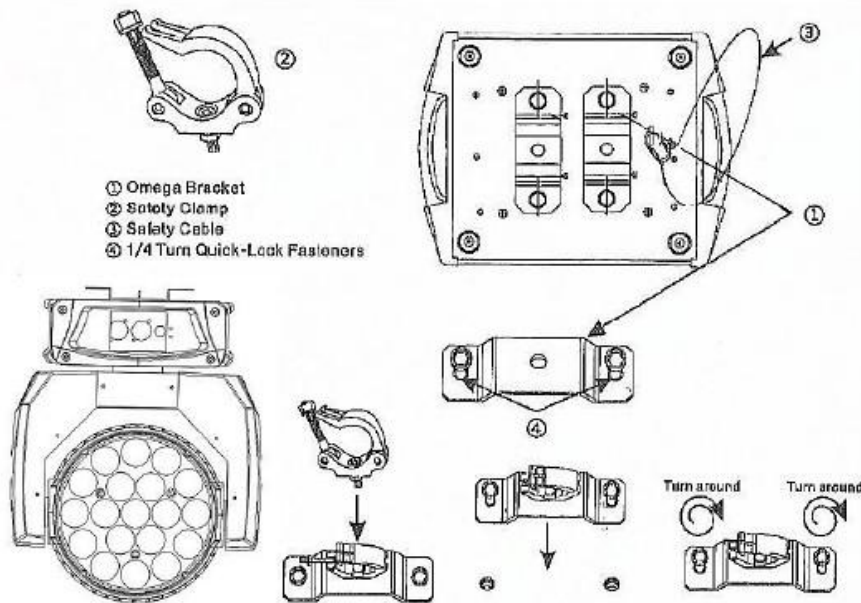## Ⅴ DIMENSION

Unit: mm

Ⅴ 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:

① Omega Bracket
② Safety Clamp
③ Safety Cable
④ 1/4 Turn Quick-Lock Fasteners

Address 31   Address16   Address 1

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.
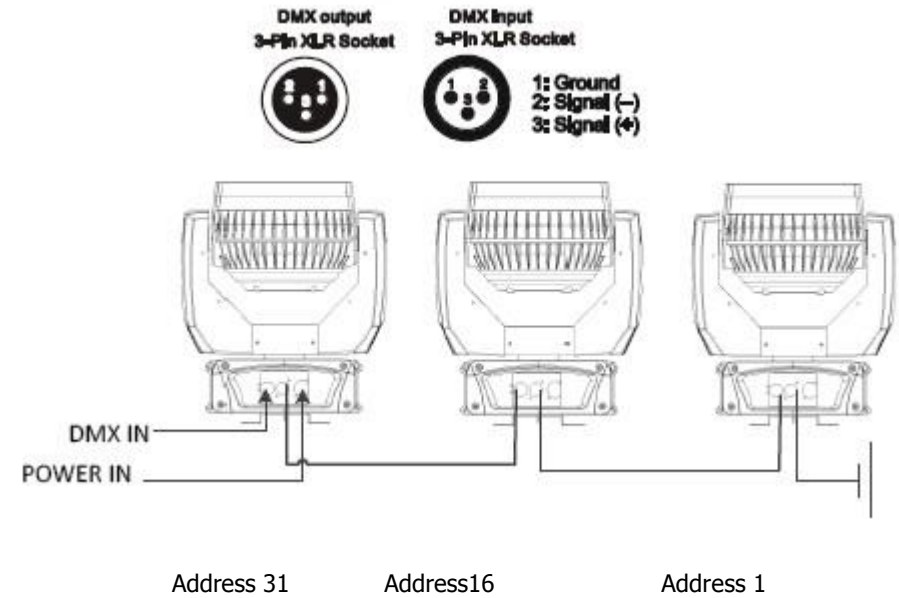
DMX-512 CONNECTION WITH DMX TERMINATOR

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:

120Ω

PIN 3
PIN 2
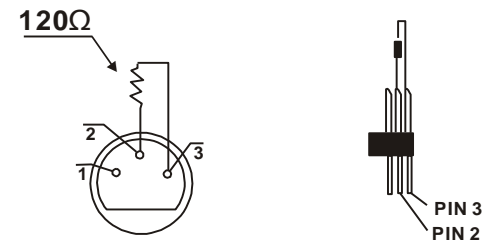
Ⅵ OPERATION AND CONTROL

1. Control panel
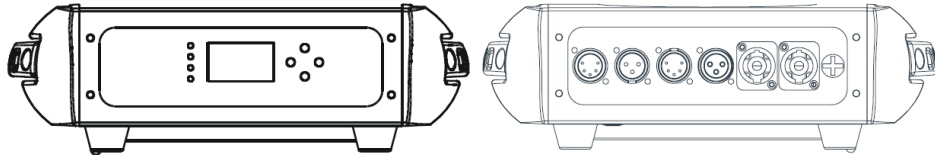
Display:

To show the various menus and the selected functions

LED:

POWER	ON	Power on
NULL		No function
NULL		No function
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:
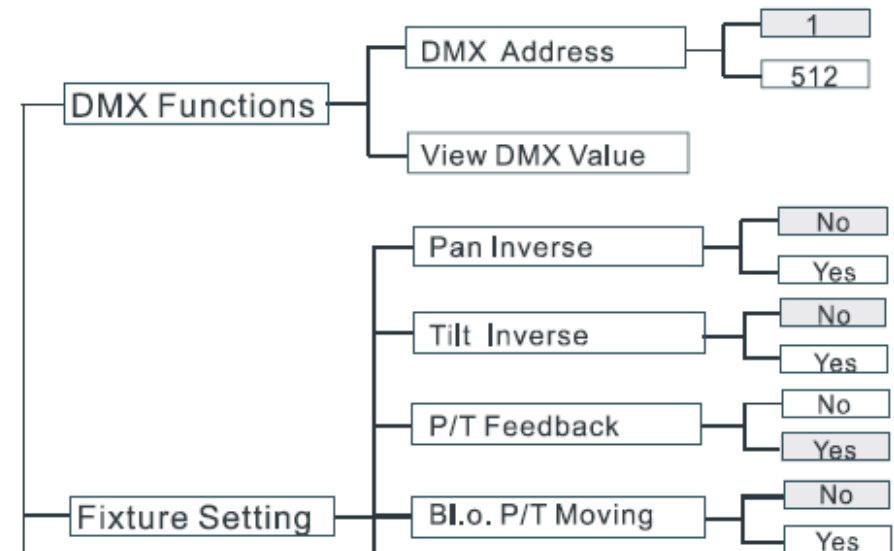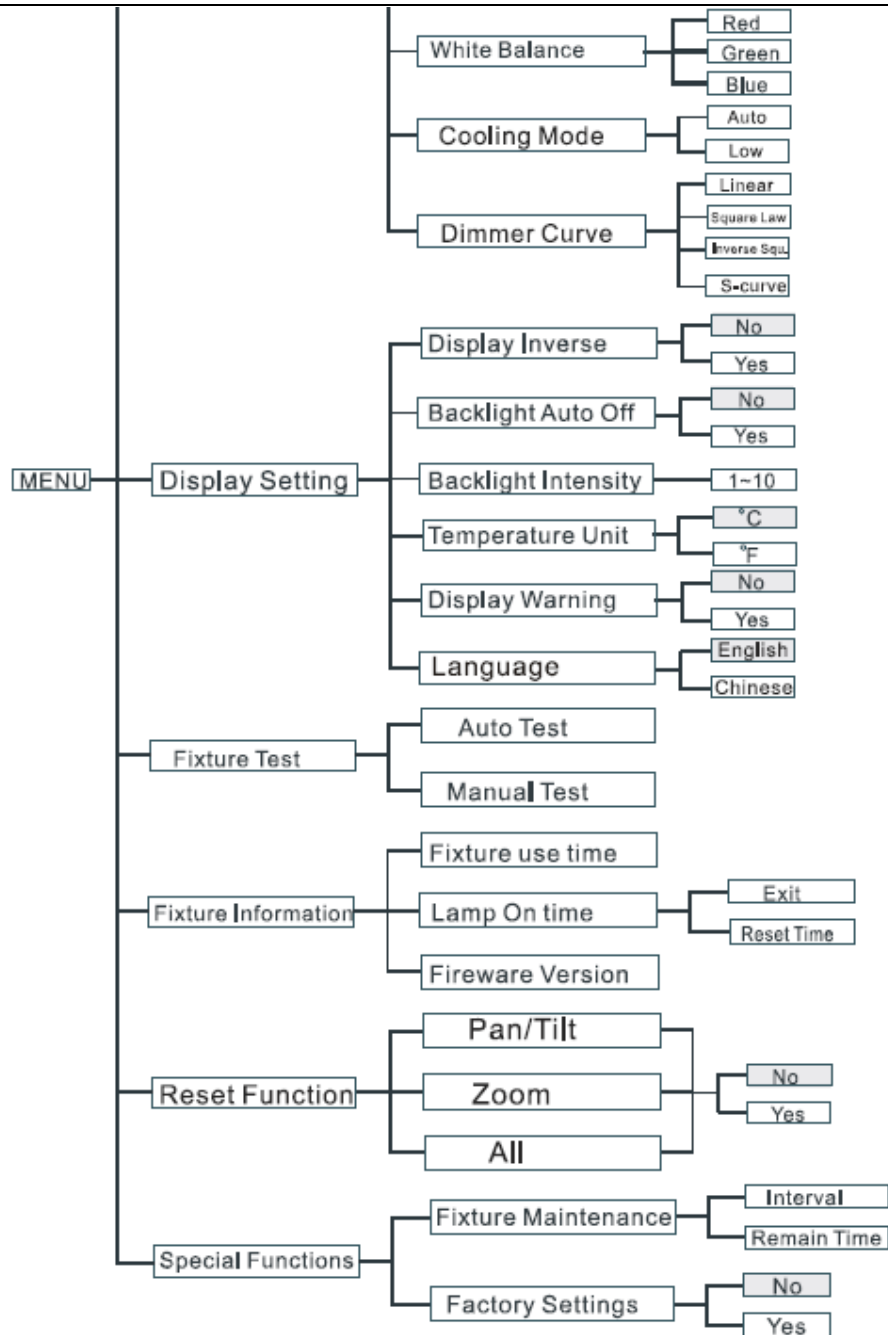
DMX Functions

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
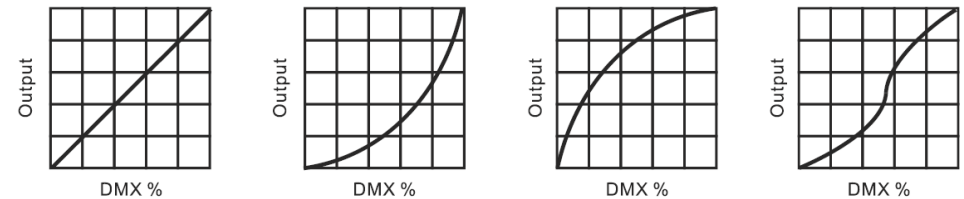
Optically Linear   Square Law   Inverse Square Law   S-curve

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
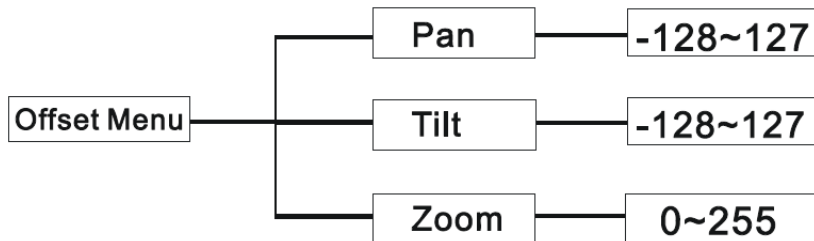
In the main functions, hold **Enter** button for at least 3 seconds into offset mode, use

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.

Ⅶ 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	15	29	43

14 DMX Channels mode

DMX CH	DMX Value	Function
CH1	000←→255	Pan 0~540/630degree
CH2	000←→255	Pan fine 1.8 degree, 16bit
CH3	000←→255	Tilt 0~280degree
CH4	000←→255	Tilt fine 1.8 degree, 16bit
CH5	000←→255	Pan/tilt motor running speed
CH6		Reset
	000←→009	No function
	010←→014	Reset all
	015←→255	No function
CH7	000←→255	Dimmer, linear dimmer, 0-100%
CH8		Shutter
	000←→019	Closed
	020←→024	Open
	025←→064	Strobe
	065←→069	Open
	070←→084	Opening pulse
	085←→089	Open

	090←→104	Closing pulse			035←→039	LEE 194-Surprise pink
	105←→109	Open			040←→044	LEE 181-Congo blue
	110←→124	Random strobe			045←→049	LEE 071-Tokyo blue
	125←→129	Open			050←→054	LEE 120-Deep blue
	130←→144	Random opening pulse			055←→059	LEE 079-Just blue
	145←→149	Open			060←→064	LEE 132-Medium blue
	150←→164	Random closing pulse			065←→069	LEE 200-Double CT blue
	165←→169	Open			070←→074	LEE 161-State blue
	170←→184	Burst pulse			075←→079	LEE 201-Full CT blue
	185←→189	Open			080←→084	LEE 202-Half CT blue
	190←→204	Random burst pulse			085←→089	LEE 117-Steel blue
	205←→209	Open			090←→094	LEE 353-Lighter blue
	210←→224	Sine wave			095←→099	LEE 118-Light blue
	225←→229	Open			100←→104	LEE 116-Medium blue green
	230←→244	Burst			105←→109	LEE 124-Dark green
	245←→255	Open			110←→114	LEE 139-Primary green
CH9	000←→255	Beam red, 0-100%			115←→119	LEE 089-Moss green
CH10	000←→255	Beam green, 0-100%			120←→124	LEE 122-Fern green
CH11	000←→255	Beam blue, 0-100%			125←→129	LEE 738-JAS green
CH12	000←→255	Beam white, 0-100%			130←→134	LEE 088-Lime green
		Color wheel effect			135←→139	LEE 100-Spring yellow
	000←→009	Open			140←→144	LEE 104-Deep amber
	010←→014	LEE 790-Moroccan pink			145←→149	LEE 179-Chrome orange
CH13	015←→019	LEE 157-Pink			150←→154	LEE 105-Orange
	020←→024	LEE 332-Special rose pink			155←→159	LEE 021-Gold amber
	025←→029	LEE 328-Follies pink			160←→164	LEE 778-Millennium gold
	030←→034	LEE 345-Fuchsia pink			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
CH14		Zoom
	000←→255	Zoom, from 10-60

Ⅷ 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.

Ⅸ 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!