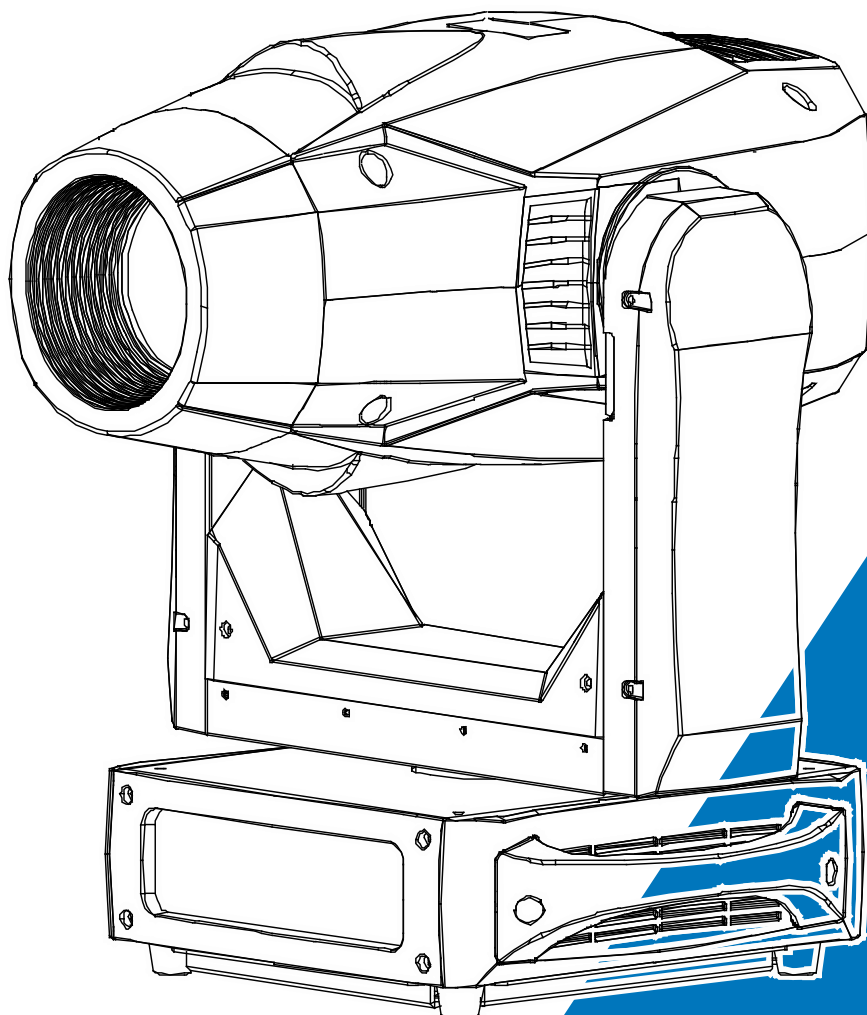


Acme®

GEIST **SPOT**

XA-500 SPOT



User Manual

Please read the instruction carefully before use

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1. Safety Instructions



WARNING

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

- Please keep this User Guide for future consultation. If you sell the unit to another user, be sure that they also receive this instruction booklet.
- Unpack and check carefully there is no transportation damage before using the unit.
- Before operating, ensure that the voltage and frequency of power supply match the power requirements of the unit.
- It's important to ground the yellow/green conductor to earth in order to avoid electric shock.
- The unit is for indoor use only. Use only in a dry location.
- The unit must be installed in a location with adequate ventilation, at least 50cm from adjacent surfaces. Be sure that no ventilation slots are blocked.
- Disconnect main power before replacement or servicing.
- Make sure there are no flammable materials close to the unit while operating as it is fire hazard.
- Use safety cable when fixes this unit. DO NOT handle the unit by taking its head only, but always by taking its base.
- Maximum ambient temperature is $T_a: 40^{\circ}\text{C}$. DO NOT operate it where the temperature is higher than this.
- Unit surface temperature may reach up to 85°C . DO NOT touch the housing bare-hand during its operation. Turn off the power and allow about 15 minutes for the unit to cool down before replacing or serving.
- In the event of serious operating problem, stop using the unit immediately. Never try to repair the unit by yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center. Always use the same type spare parts.
- DO NOT touch any wire during operation as high voltage might be causing electric shock.

Warning:

- To prevent or reduce the risk of electrical shock or fire, do not expose the unit to rain or moisture.
- DO NOT open the unit within five minutes after switching off.
- The housing, the lenses, or the ultraviolet filter must be replaced if they are visibly damaged.

Caution:

There are no user serviceable parts inside the unit. DO NOT open the housing or attempt any repairs yourself. In the unlikely event your unit may require service, please contact your nearest dealer.

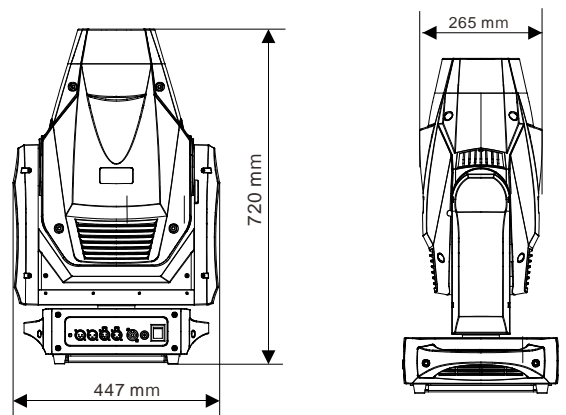
Installation:

The unit should be mounted via its screw holes on the bracket. Always ensure that the unit is firmly fixed to avoid vibration and slipping while operating. And make sure that the structure to which you are attaching the unit is secure and is able to support a weight of 10 times of the unit's weight. Also always use a safety cable that can hold 12 times of the weight of the unit when installing the fixture.

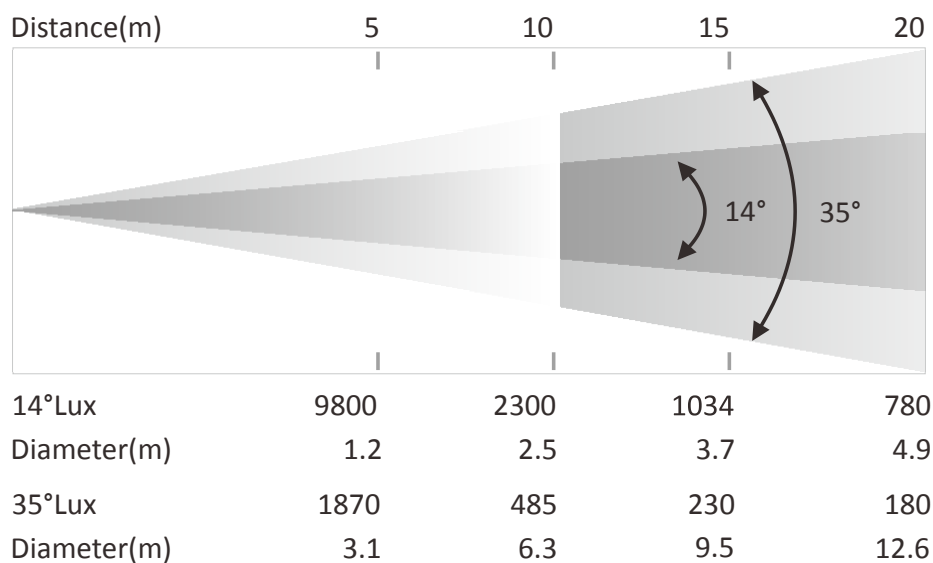
The equipment must be fixed by professionals. And it must be fixed at a place where is out of the touch of people and has no one pass by or under it.

2. Technical Specifications

- **Voltage:** AC 100V~240V, 50/60Hz
- **Power consumption:** 737W
- **LED:** 1 x 440W LED
- **Fuse:** T15A
- **Beam Angle:** 14°-35°
- **Dimension:** 447 x 265 x 720mm
- **Weight:** 30Kgs



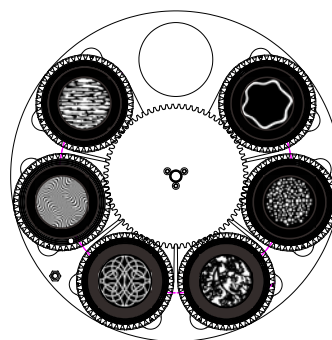
Photometrics Diagram



3. Gobo



Static Gobo Wheel



Rotating Gobo Wheel

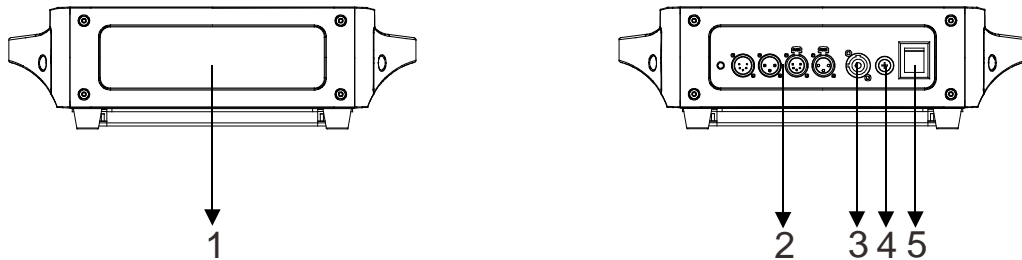
DANGER!

***Install the gobos with the device switched off only.
Unplug from mains before changing gobos!***

CAUTION: Never unscrew the screws of the rotating gobo as the ball bearing will otherwise be opened!

4. How To Set The Unit

4.1 Control panel

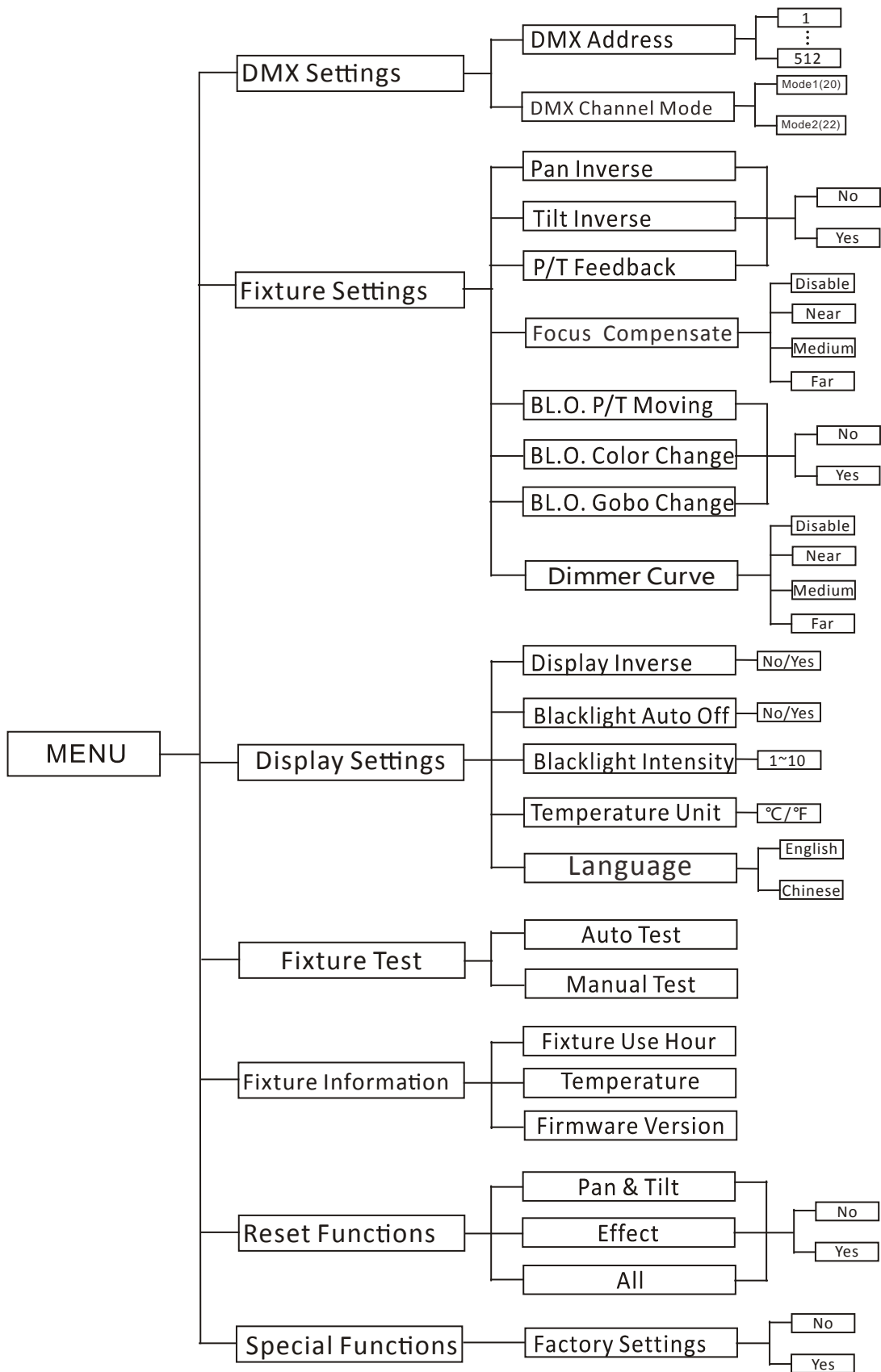


1. **Function Display:** Used to show the various menus and the selected function;
2. **DMX IN/OUT:** DMX 512 link, use XLR cable to link the unit and DMX controller;
3. **POWER IN:** Connect to power supply;
4. **FUSE (T15Amp):** Protect the unit from damage of the overcurrent;
5. **POWER WITCH:** Turn on/off the power.

4.2 Main Function

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 the **ENTER** button and the display will blink. Use the **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 Settings

To select ***DMX Settings*** press the **ENTER** button to confirm, use the **UP/DOWN** button to select ***DMX Address*** or ***DMX Channel Mode***,

DMX Address —DMX512 address setting

To select **DMX Address**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to adjust the address from **001** to **512**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

DMX Channel Mode

To select **DMX Channel Mode**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **Mode 1(20)** or **Mode 2(22)**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode

Fixture Settings

To select ***Fixture Settings***, press the **ENTER** button to confirm, use the **UP/DOWN** button to select ***Pan Inverse***, ***Tile Inverse***, ***P/T Feedback***, ***Focus Compensate***, ***BL.O. P/T Moving***, ***BL.O. Color Change***, ***BL.O. Gobo Change*** or ***Dimmer Curve***.

Pan Inverse

To select **Pan Inverse**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **No** (normal) or **Yes** (pan inverse), press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

Tilt Inverse

To select **Tilt Inverse**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **No** (normal) or **Yes** (tilt inverse), press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

P/T Feedback

To select **P/T Feedback**, press the **ENTER** button to confirm. Use the **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 the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

Focus Compensate

To select **Focus Compensate**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **Disable**, **Near**, **Medium** or **Far**, press the **ENTER** button to store. Press the **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

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

BL.O. Color Change — Blackout while change color

To select **BL.O. Color Change**, press the **ENTER** button to confirm. Use **UP/DOWN** button to select **No** (normal while changing color) or **Yes** (blackout while change color), press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

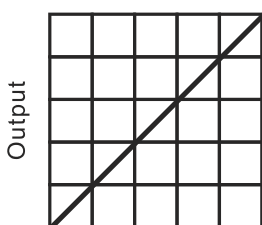
BL.O. Gobo Change — Blackout while change gobo

To select **BL.O. Gobo Change**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **No** (normal while changing gobo) or **Yes** (blackout while changing gobo), press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

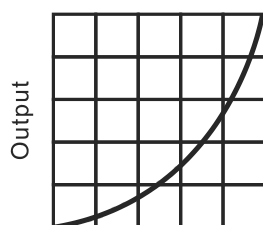
Dimmer Curve

To select **Dimmer Curve**, press the **ENTER** button to confirm. Use the **DOWN/UP** button to select the **Mode1** or **Mode 2** or **Mode 3** or **Mode 4**. Once the mode has been selected, press the **ENTER** button to setup, to go back to the functions without any change press the **MENU** button again. Press and hold the **MENU** button about one second or wait for one minute to exit the menu mode.

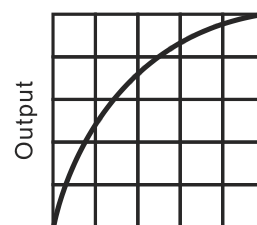
Dimmer Modes



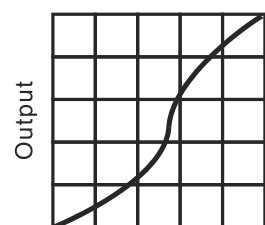
Optically Linear



Square Law



Inverse Square Law



S-curve

Mode 1(Optically Linear):

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

Mode 2(Square Law):

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

Mode 3(Inverse Square Law):

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

Mode 4(S-cure):

Light intensity control is finer at low levels and high levels and coarser at medium levels.

Display Settings

Enter menu mode, select **Display Setting**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **Display Inverse, Backlight Intensity, Temperature Unit** or **Language**.

Display Inverse

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

Backlight Intensity

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

Temperature Unit

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

Language

Select **Contrast Ratio**, press the **ENTER** button to confirm, present mode will blink on the display, use the **UP/DOWN** button to select **English** or **Chinese**, press the **ENTER** button to store. Press the **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 the **ENTER** button to confirm, use the **UP/DOWN** button to select **Auto Test** or **Manual Test**

Auto Test

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

Manual Test

Select **Manual Test**, press the **ENTER** button to confirm, the present channel will show on the display, use the **UP/DOWN** button to select channel, press the **ENTER** button to confirm, then use the **UP** and **DOWN** button to adjust the value, press the **ENTER** button to store, the fixture will run as the channel value indicates. Press the **MENU** button back to the last menu or exit menu mode idling one minute.

(All channels value will become 0 after exiting Manual Test menu)

Fixture Information

Enter menu mode, select **Fixture Information**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **Fixture use hour**, **Temperature** or **Firmware Version**.

Fixture use hour

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

Temperature

Select **Temperature**, press the **ENTER** button to confirm, fixture temperature will show on the display, press the **MENU** button to exit.

Firmware Version

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

Reset Functions

Enter menu mode, select **Reset Function**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **Pan/Tilt, Effect** or **All**.

Pan & Tilt —Reset Pan/Tilt

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

Effect —Reset Effect

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

All — Reset All

Select **All**, press the **ENTER** button to confirm, use the **UP/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 the **MENU** button to exit.

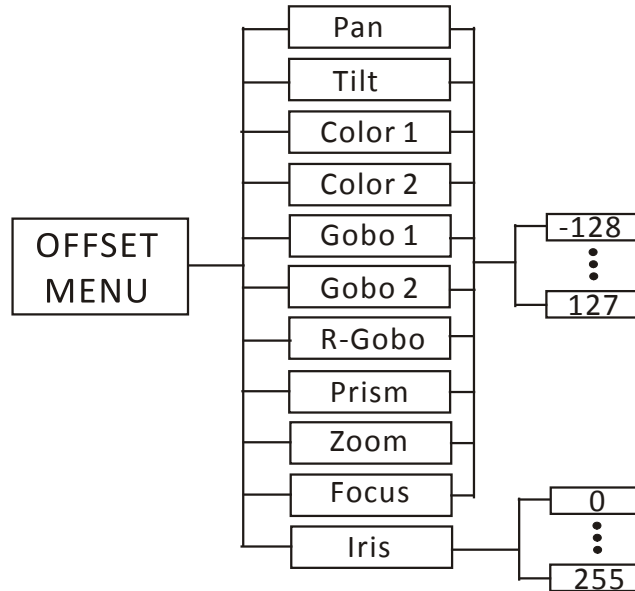
Special Functions

Factory Settings

Select **Factory Settings**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **Yes** (the fixture will reset to factory settings) or **No** (normal), press **ENTER** button to store. Press the **MENU** button to exit.

4.3 Home Position Adjustment

Press the **MENU** button into menu mode, then press the **ENTER** button for about 3 seconds into offset mode to adjust the home position. Select the function by the **ENTER** button. Use the **UP/DOWN** button to choose the submenu, press the **ENTER** button to store and automatically return to the last menu. Press **MENU** button to exit.



Pan—pan home position adjustment

Enter offset mode, Select **Pan**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP/DOWN** button to offset the value from -128 to 127, press the **ENTER** button to store. Press the **MENU** button to exit.

Tilt—Tilt home position adjustment

Enter offset mode, Select **Tilt**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP/DOWN** button to offset the value from -128 to 127, press the **ENTER** button to store. Press the **MENU** button to exit.

Gobo 1—Gobo 1 home position adjustment

Enter offset mode, Select **Gobo 1**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP/DOWN** button to offset the value from -128 to 127, press the **ENTER** button to store. Press the **MENU** button to exit.

Color 2—Color 2 home position adjustment

Enter offset mode, Select **Color 2**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP/DOWN** button to offset the value from -128 to 127, press the **ENTER** button to store. Press the **MENU** button to exit.

Gobo 1—Gobo 1 home position adjustment

Enter offset mode, Select **Gobo 1**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP/DOWN** button to offset the value from -128 to 127, press the **ENTER** button to store. Press the **MENU** button to exit.

Gobo 2—Gobo 2 home position adjustment

Enter offset mode, Select **Gobo 2**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP/DOWN** button to offset the value from -128 to 127, press the **ENTER** button to store. Press the **MENU** button to exit.

R-Gobo—R-Gobo rotation home position adjustment

Enter offset mode, Select **R-Gobo**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP/DOWN** button to offset the value from -128 to 127, press the **ENTER** button to store. Press the **MENU** button to exit.

Prism—Prism home position adjustment

Enter offset mode, Select **Prism**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP/DOWN** button to offset the value from -128 to 127, press the **ENTER** button to store. Press the **MENU** button to exit.

Zoom—Zoom home position adjustment

Enter offset mode, Select **Zoom**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP/DOWN** button to offset the value from -128 to 127, press the **ENTER** button to store. Press the **MENU** button to exit.

Focus—Focus home position adjustment

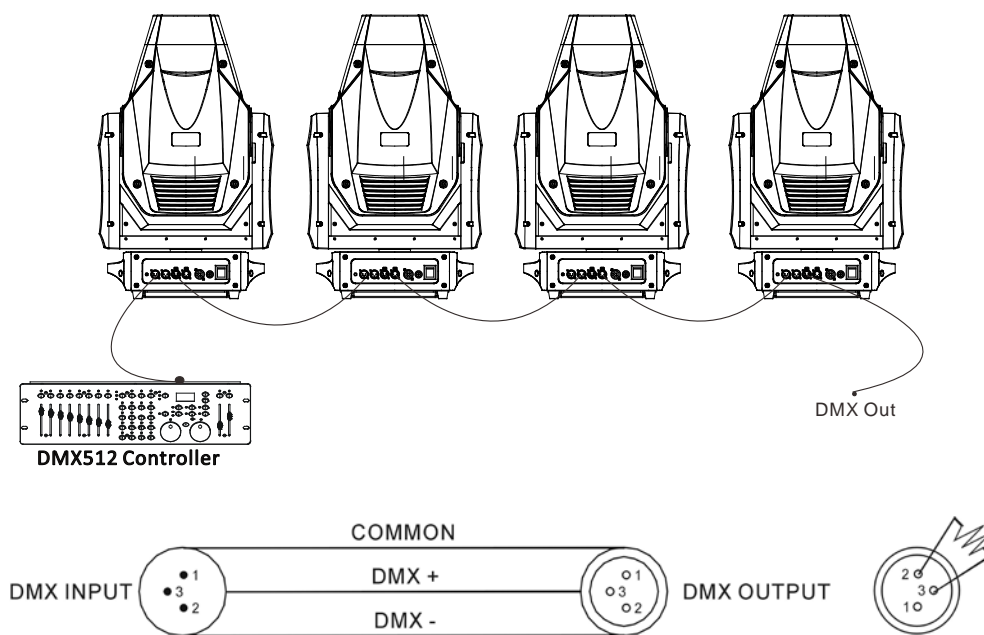
Enter offset mode, Select **Focus**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP/DOWN** button to offset the value from -128 to 127, press the **ENTER** button to store. Press the **MENU** button to exit.

Iris—Iris home position adjustment

Enter offset mode, Select **Iris**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP/DOWN** button to offset the value from 0 to 255, press the **ENTER** button to store. Press the **MENU** button to exit.

5. Control By Universal DMX Controller

5.1 DMX Connection



1. Connect the fixture together in a “daisy chain” by XLR plug cable from the output of the fixture to the input of the next fixture. The cable cannot be branched or split to a “Y” cable. Inadequate or damaged cables, soldered joints or corroded connectors can easily distort the signal and shut down the system
2. The DMX output and input connectors are pass-through to maintain the DMX circuit when one of the units’ power is disconnected.
3. At last fixture, the DMX cable has to be terminated with a terminator to reduce signal errors. Solder a 120-ohm 1/4W resistor between pin 2(DMX-) and pin 3(DMX+) into a 3-pin XLR-plug and plug it in the DMX-output of the last fixture.
4. Each lighting fixture 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).

5. 3 pin XLR connectors are more popular than 5 pins XLR.

3 pin XLR: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+)

5.2 Address Setting

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 the **MENU** button to enter menu mode, select the **DMX Functions**, press the **ENTER** button to confirm, use the **UP** and **DOWN** button to select the **DMX Address**, press the **ENTER** button to confirm, the present address will blink on the display, use the **UP** and **DOWN** button to adjust the address from 0 to 512, press the **ENTER** button to store. Press the **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
20 Channels	1	21	41	61
22 Channels	1	23	45	67

5.3 DMX 512 Configuration

20 Channels Mode (Mode 1):

Channel	Value	Function
1	000-255	Pan Pan movement 0°-540°
2	000-255	Tilt Tilt movement 0°-270°
3	000-255	Pan/Tilt speed Fast to slow

4	000-255	Cyan 0-100%
5	000-255	Magenta 0-100%
6	000-255	Yellow 0-100%
7	000-255	CTO 0-100%
8	000-009 010-018 019-027 028-036 037-045 046-054 055-063 064-127 128-189 190-193 194-255	Color 1 Open Color 1 Color 2 Color 3 Color 4 Color 5 Color 6 Index Clockwise rotation from fast to slow Stop Clockwise rotation from slow to fast
9	000-009 010-018 019-027 028-036 037-045 046-054 055-063 064-074	Gobo Open Gobo 1 Gobo 2 Gobo 3 Gobo 4 Gobo 5 Gobo 6 Gobo 1 Shaking

	075-085 086-096 097-107 108-118 119-127 128-189 190-193 194-255	Gobo 2 Shaking Gobo 3 Shaking Gobo 4 Shaking Gobo 5 Shaking Gobo 6 Shaking Fast to Slow Stop Slow to Fast
10	000-127 128-189 190-193 194-255	RGobo1 Index 0-360 Clockwise rotation from fast to slow Stop Clockwise rotation from slow to fast
11	000-007 008-014 015-021 022-028 029-035 036-042 043-049 050-056 057-063 064-071 072-079 080-087 088-095 096-103 104-111	Gobo 2 Open Gobo 1 Gobo 2 Gobo 3 Gobo 4 Gobo 5 Gobo 6 Gobo 7 Gobo 8 Gobo 1 shaking Gobo 2 shaking Gobo 3 shaking Gobo 4 shaking Gobo 5 shaking Gobo 6 shaking

	112-119	Gobo 7 shaking
	120-127	Gobo 8 shaking
	128-189	fast to slow
	190-193	Stop
	194-255	slow to fast
12	000-255	Iris 0-100%
13	000-007	Prism No effect
	008-127	Prism1
	127-255	Prism2
14	000-127	R-prism Index 0-360
	128-189	Fast to slow
	190-193	Stop
	194-255	Slow to fast
15	000-255	Zoom 0-100%
16	000-255	Focus 0-100%
17	000-007	Shutter Close
	008-015	Open
	016-131	Strobe Slow to Fast
	132-139	Open
	140-181	Fast Close Slow open
	182-189	Open
	190-231	Fast Open Slow Close
	232-239	Open

	240-247	Random Strobe
	248-255	Open
18	000-255	Dimmer 0-100%
19	000-255	Dimmer Fine 0-100%
20	000-009	Null
	010-014	Reset All
	015-029	Reset Effect
	030-034	Reset Pan/Tilt
	035-255	Null

22 Channels Mode (Mode 2):

Channel	Value	Function
1	000-255	Pan 0-100%
2	000-255	Pan Fine 0-100%
3	000-255	Tilt 0-100%
4	000-255	Tilt Fine 0-100%
5	000-255	Pan/Tilt speed Fast to slow
6		Cyan

	000-255	0-100%
7	000-255	Magenta 0-100%
8	000-255	Yellow 0-100%
9	000-255	CTO 0-100%
10	000-009 010-018 019-027 028-036 037-045 046-054 055-063 064-127 128-189 190-193 194-255	Color 1 Open Color 1 Color 2 Color 3 Color 4 Color 5 Color 6 Index Clockwise rotation from fast to slow Stop Clockwise rotation from slow to fast
11	000-009 010-018 019-027 028-036 037-045 046-054 055-063 064-074 075-085	Gobo Open Gobo 1 Gobo 2 Gobo 3 Gobo 4 Gobo 5 Gobo 6 Gobo 1 Shaking Gobo 2 Shaking

	086-096	Gobo 3 Shaking
	097-107	Gobo 4 Shaking
	108-118	Gobo 5 Shaking
	119-127	Gobo 6 Shaking
	128-189	Fast to Slow
	190-193	Stop
	194-255	Slow to Fast
12		RGobo1
	000-127	Index 0-360
	128-189	Clockwise rotation from fast to slow
	190-193	Stop
	194-255	Clockwise rotation from slow to fast
13		Gobo 2
	000-007	Open
	008-014	Gobo 1
	015-021	Gobo 2
	022-028	Gobo 3
	029-035	Gobo 4
	036-042	Gobo 5
	043-049	Gobo 6
	050-056	Gobo 7
	057-063	Gobo 8
	064-071	Gobo 1 shaking
	072-079	Gobo 2 shaking
	080-087	Gobo 3 shaking
	088-095	Gobo 4 shaking
	096-103	Gobo 5 shaking
	104-111	Gobo 6 shaking
	112-119	Gobo 7 shaking

	120-127 128-189 190-193 194-255	Gobo 8 shaking fast to slow Stop slow to fast
14	000-255	Iris 0-100%
15	000-007 008-127 127-225	Prism No effect Prism 1 Prism 2
16	000-127 128-189 190-193 194-255	R-prism Index 0-360 Fast to Slow Stop Slow to Fast
17	000-255	Zoom 0-100%
18	000-255	Focus 0-100%
19	000-007 008-015 016-131 132-139 140-181 182-189 190-231 232-239 240-247	Shutter Close Open Strobe Slow to Fast Open Fast Close Slow open Open Fast Open Slow Close Open Random Strobe

	248-255	Open
20	000-255	Dimmer 0-100%
21	000-255	Dimmer Fine 0-100%
22	000-009	Null
	010-014	Reset All
	015-029	Reset Effect
	030-034	Reset Pan/Tilt
	035-255	Null

6. Troubleshooting

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.

7. Fixture 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.

Declaration of Conformity

We declare that our products (lighting equipments) comply with the following specification and bears CE mark in accordance with the provision of the Electromagnetic Compatibility (EMC) Directive 89/336/EEC.

EN55103-1: 2009+A1:2012; EN55103-2: 2009;
EN61000-3-2: 2014; EN61000-3-3: 2013.

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Harmonized Standard

EN 60598-1:2015; EN 60598-2-17:1989 + A2:1991;
EN 62471:2008; EN 62493: 2010
Safety of household and similar electrical appliances
Part 1: General requirements

Innovation, Quality, Performance