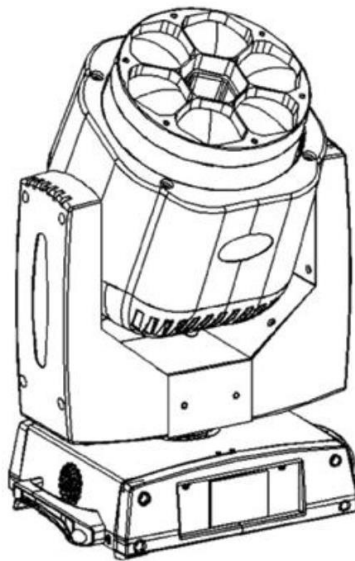




Mini Eye

LED WASH



This product manual contains important information about the safe installation and use of this projector. Please read and follow these instructions carefully and keep this manual in a safe place

User manual

Please read the instructions carefully before use

TABLE OF CONTENTS

1. Safety Instructions	3
2. Technical Specifications	4
3. How To Control The Device	5
4. Dimmer Curve	12
5. Diagram	13
6. Troubleshooting	13
7. Cleaning the device	14

Statement

The product has full capability and intact packing when it leaves factory. All the users should comply with provided warnings and manual. Any damages caused by misuse are not included in our guarantee. We cannot be responsible for any malfunctions & problems owing to ignoring the manual.

1. Safety Instructions

- 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 Ta: 40°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-hands during its operation. Turn off the power and allow about 15 minutes for the unit to cool down before replacing or serving.
- In case 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 centre. 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 by yourself. If your unit requires 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. 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 the safe place where it is not available for other people.

2. Technical Specifications

- Power Voltage: AC 100-240V, 50/60Hz
- Power Consumption: 160W
- Light Sources: 7 Multi-chip 4in1 RGBW 15 Watt LED sources
- LED Color Temperature: 6,500K
- LED Life Time: 50,000 hours.
- Electronic Zoom: 4°~60°

Control

- DMX Channel: 27CH / 55CH
- Control Modes: DMX512, Auto, Master-Slave, Sound

Pan/Tilt

- Pan/Tilt: 540°/ 220°
- Pan/Tilt Resolution: 16 bit

Construction

- Display: LCD Display
- DMX In/Out socket: 3-pin XLR sockets
- Power Socket: Powercon in/out
- Protection Rating: IP20

Features

- 0~100% electronic linear dimming
- 1~25 times/sec strobe, speed adjustable.
- Each LED controllable, built-in shapes effects.
- Rotation: the lens head can infinite rotation in two direction.
- Fast, quiet operation and flicker free

Size

- Dimension: 167*243*344mm,
- Packing Size:400*260*305MM

Weight

- Net Weight: 6.0Kgs
- Gross Weight: 7.2Kgs

3. How to Control The Device

The DMX512 is widely used in intelligent lighting control system. You can connect several lights together with a DMX 512 controller. DMX in and DMX out, 3 pin XLR connectors are: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+)

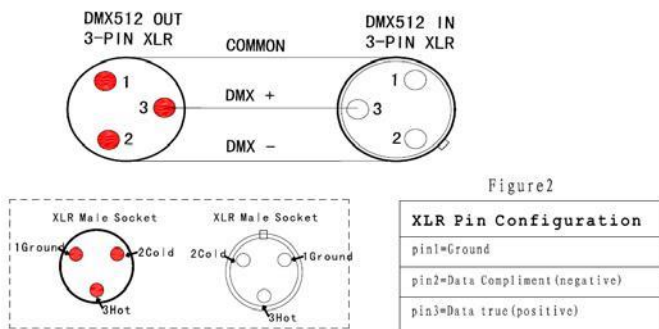


Figure2

Display:

MENU	To select the programming functions
DOWN	To go backward in the selected functions
UP	To go forward in the selected functions
ENTER	To exit the current function
OK	To confirm the selected function

SET

Main-Menu	Sub-Menu	Description
Run Mode	DMX	DMX State
	AUTO 1	Auto and Sound Run Functions. Master mode: will send DMX signal to slave (synchronous operating mode).
	AUTO 2	
	AUTO 3	
	Sound 1	
	Sound 2	
DMX Address	001~512	Press “Enter” to edit, press “Up” or “Down” to change the DMX address. Press “Enter” to save the address.
Channel Mode	27CH(STANDARD)	Two DMX channel modes, 27CH mode (Default).
	55CH(SHAPES)	
No DMX Signal	KEEP	Keep the state and continues to run.
	CLEAR	Stop run.
Invert Pan	ON/OFF	Invert Pan
Invert Tilt	ON/OFF	Invert Tilt。
Pan-Tilt Encoder	ON/OFF	Readable (ON), Unreadable (OFF)
Dimmer Curve	LINE	LINE (Default)
	SCUR	
	INSQ	
	SQUA	
Top Temp Protection	25~125	When the temperature exceeds the set value, led power slowly reduced to half-power state , when the temperature is below the temperature will slowly return to normal power state.
Load Default	Ok/Cancel	Press “OK” to restore defaults

Menu

Main-Menu	Sub-Menu	Description
Reset	Ok/Cancel	Press “OK” to reset
Pan	000~255	
Tilt	000~255	
Zoom	000~255	
Rotation	000~255	
Red	000~255	
Green	000~255	
Blue	000~255	
White	000~255	

Sys

Sub-Menu	Description
Software Version (Ver)	Displays the current version of the software
Total Fixture Hours	Displays the total used time information
Partial Fixture Hours	Displays the using time information
Current Temp	28

Advan

Main-Menu	Sub-Menu	Description
Sensor Monitor	Zoom Hall State 00	If magnetic is detected then 00, else 01
	Rotation Hall State 00	If magnetic is detected then 00, else 01
	XY Hall State 00	If magnetic is detected then 00, else

		01
	Pan Codewheel Step +0000	
	Pan CodeWheel Step +0000	
Reset Calibration	Pan Calibration	-128~127
	Tilt Calibration	-128~127
	Zoom Calibration	-128~127
	Rotation Calibration	-128~127
Color Calibration	ColorR1 Calibration 255	-128~127
	...	-128~127
	ColorR7 Calibration 255	-128~127
	ColorG1 Calibration 255	-128~127
	...	
	ColorG7 Calibration 255	
	ColorB1 Calibration 255	
	...	
	ColorB7 Calibration 255	
	ColorW1 Calibration 255	
	...	
	ColorW7 Calibration 255	
Test	All	-128~127
	Color	-128~127
	Pan&Tilt	-128~127
	Zoom&Rotation	-128~127

EN/中

Menu	Description
EN/中	English and Chinese language selection

180↑

Menu	Description
180↑	Display rotate 180 degrees

DMX Channels Mode

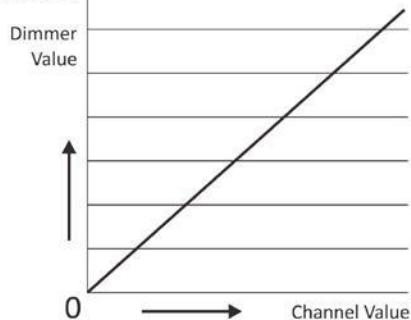
27 CH	55 CH	Function	Value	Description
1	1	Pan	0~255	Pan Movement
2	2	Pan Fine	0~255	Pan 16Bit Movement
3	3	Tilt	0~255	Tilt Movement
4	4	Tilt Fine	0~255	Tilt 16Bit Movement
5	5	Dimmer	0~255	Dimmer 0%~100%
6	6	Strobe	0~3	Off
			3~103	Strobe Slow to Fast, Led On
			104~107	Strobe Off
			108~207	Jump Strobe Slow to Fast
			208~212	Strobe Off
			213~251	Split Strobe Slow to Fast
			252~255	Strobe Off
7	7	Red	0~255	Red Dimmer 0%~100%
8	8	Green	0~255	Green Dimmer 0%~100%
9	9	Blue	0~255	Blue Dimmer 0%~100%
10	10	White	0~255	White Dimmer 0%~100%
11	11	Linear CTO	0~255	White led power adjustment
12	12	Macro Color	0~255	Macro Color
13	13	Function	0~11	Empty
			12~24	XY Speed, Fastest Speed
			25~37	XY Speed, Normal Speed
			38~42	Dimmer Curve 1, LINE Curve

			43~47	Dimmer Curve 2, SCUR Curve
			48~52	Dimmer Curve 3, INSQ Curve
			53~57	Dimmer Curve 4, SQUA Curve
			58~62	Delay Curve 1
			63~67	Delay Curve 2
			68~72	Delay Curve 3
			73~255	LED power adjustable
14	14	Zoom	0~255	Zoom
15	15	Zoom Rotation	0~127	Rotation
			128~190	CCW Rotation, Fast to Slow
			191~192	Stop
			193~255	CW Rotation, Slow to Fast
16	16	Shape Selection	0~255	Shape Selection
17	17	Shape Speed	0~255	Shape Speed
18	18	Shape Fade	0~255	Shape Fade
19	19	Shape Red	0~255	Shape Color: Red
20	20	Shape Green	0~255	Shape Color: Green
21	21	Shape Blue	0~255	Shape Color: Blue
22	22	Shape White	0~255	Shape Color: White
23	23	ForeColor Dimmer	0~255	Shape: ForeColor Dimmer
24	24	BackColor Dimmer	0~255	Shape: BackColor Dimmer
25	25	Shape Transition	0~255	Shape Transition
26	26	Shape Offset	0~255	Shape Effect Auto Mode, back several steps and continue auto run
27	27	Reset	0~25	Empty
			26~76	Effect Motor Reset (5 sec.)
			77~127	XY Motor Reset (5 sec.)
			128~255	All Reset (5 sec.)

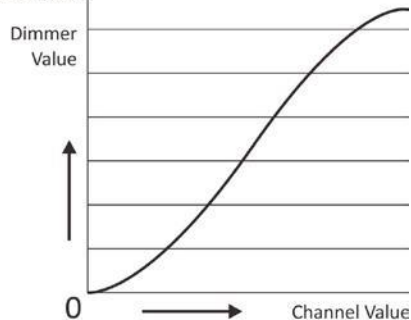
*	28	Led 1 Red	0~255	Led 1 Red Dimmer 0%~100%
*	29	Led 1 Green	0~255	Led 1 Green Dimmer 0%~100%
*	30	Led 1 Blue	0~255	Led 1 Blue Dimmer 0%~100%
*	31	Led 1 White	0~255	Led 1 White Dimmer 0%~100%
*	...	...Red	0~255	... Red Dimmer 0%~100%
*	...	...Green	0~255	... Green Dimmer 0%~100%
*	...	...Blue	0~255	... Blue Dimmer 0%~100%
*	...	...White	0~255	... White Dimmer 0%~100%
*	52	Led 7 Red	0~255	Led 7 Red Dimmer 0%~100%
*	53	Led 7 Green	0~255	Led 7 Green Dimmer 0%~100%
*	54	Led 7 Blue	0~255	Led 7 Blue Dimmer 0%~100%
*	55	Led 7 White	0~255	Led 7 White Dimmer 0%~100%

4. Dimmer Curve

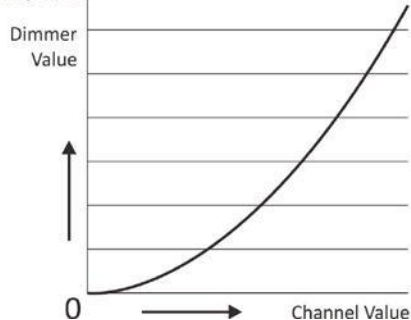
LINE Curve



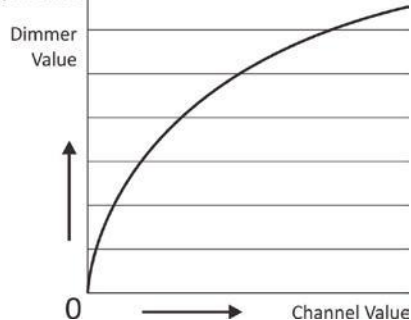
SCUR Curve



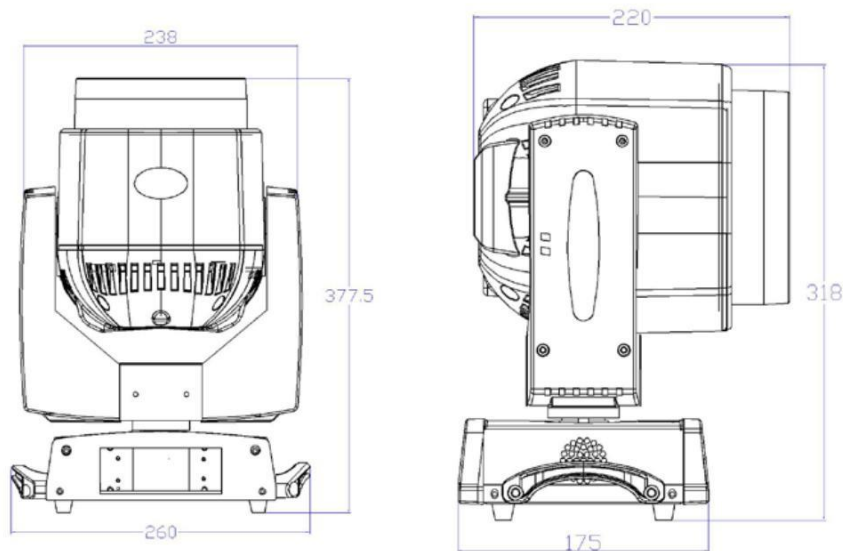
INSQ Curve



SQUA Curve



5. Diagram



6. Troubleshooting

There are a few common problems presented below, 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 they are linked 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 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. Cleaning the device

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 unit 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.