

SL-B EYE-1940-K15

19x40W 4IN1 RGBW K15 BEE EYE MOVING HEAD



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 for future reference.

User manual

Please read the instructions carefully before use

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STATEMENT

The product has well capability and intact packing when leave factory. All of the user should comply with warning item and manual, any misuse cause of the damages are not included in our guarantee, and also can not be responsible for any malfunction & problem owing to ignore the manual.

1.Safety Instruction

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 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°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.

2. Technical Specification

Power Voltage: AC 100-240V, 50/60Hz

Power Consumption: 800W

Light Sources: 19pcs Multi-chip 4in1 RGBW 40 Watt LED sources

Zoom Angle: 4-60°

Moving Angle: Pan 540° Tilt 270°

Control

DMX Channel: 32/34/46/72/78CH/92/97/99CH

Control Modes: DMX512, Auto, Master-Slave, Music

Construction

Display: LCD Display

DMX In/Out socket: 3-pin XLR in/out

Power Socket: Powercon in/out

Protection Rating: IP20

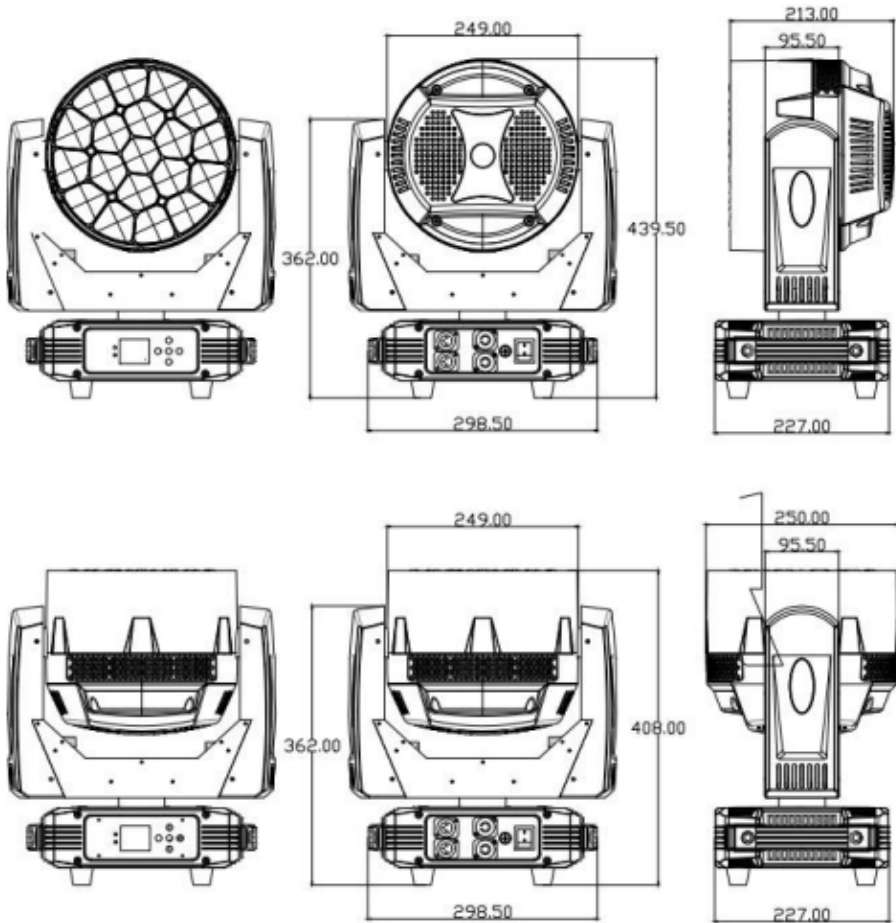
Size

Light Size: 298*250*439MM

Weight

Net Weight: 13.5Kgs

Product View



3.How to Control The Device

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

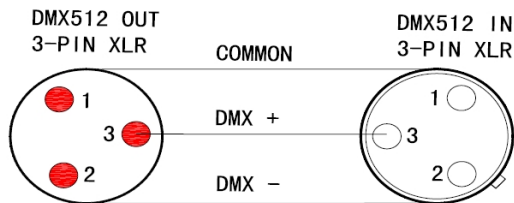
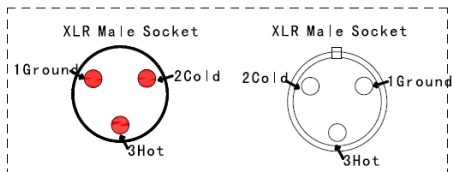


Figure2



XLR Pin Configuration
pin1=Ground
pin2=Data Compliment (negative)
pin3=Data true (positive)

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 confirm the selected functions

Set DMX Address Code

1. Press "**Menu**" to "Set DMX Address", and press "**ENTER**" keys to enter into
2. Show "Set DMX Address DMX Address:001", Press the "**UP** and **DOWN**" keys to amended
- 3 Press "**ENTER**" keys to save and Exit, Press the "**MENU**" Keys does not save and Exit
- 4 Functions setting via LED display panel as below:

Primary menu	Secondary menu	Three-level menu/parameters
address	001 - 512	(Every time the number of channels is increased, it is reduced to normal)
system setup	work pattern	Artnet/DMX/ voice control/self-propelled
	Channel mode	32/34/46/72/78CH/92/97/99CH
	X axis default position	0-255
	Y-axis default position	0-255
	X-axis inversion	On/off
	Y-axis inversion	On/off
	XY axis exchange	On/off
	XY axis fast mode	On/off
	Signal holding	On/off
	Optical coupler error correction	On/off
	Hall error correction	On/off
	Synchronous update	On/off
	Backlight time	15 seconds /30 seconds /60 seconds/always on
Restore factory settings	Confirm/cancel	
Test mode	Current channel mode channel	0-255
System calibration	Enter password	Lamp calibration

Advanced mode	network	
	data package	
	Lamp holder reset	
	XY reset	
	Reset all	
system information	Reset error message	Display reset error message
	DMX data monitoring	Receive the channel value of the console
	Sensor information	Hall information
		X-ray optocoupler information
		Y optocoupler information
	Hardware version	Display hardware version
	software release	Display software version
Cumulative use time	Machine service time	

➤ **Automatic screen rotation function**

The system can automatically rotate the screen according to the direction of gravity without manual rotation. You can also turn off the automatic rotation function.

➤ **Manual test**

This interface is used to control the current lamps.

Press "OK" key to enter the editing state. Press the "Up" and "Down" keys to change the channel value. Press "OK" again to save the modified values and exit editing; press "Exit" to exit editing without saving the modified values.

➤ **System calibration**

Enter the password "0000" and press "OK" to enter.

Option	Explain
Motor calibration	After entering the sub-interface, you can adjust the travel of X-axis, Y-axis, focusing and rotating motor. The adjustment range is 0~255, and 127 means no adjustment.
Power calibration	After entering the sub-interface, the power of 19 lamp beads can be adjusted, and the adjustment range is 0~255, with 255 indicating the maximum power.
White balance calibration	After entering the sub-interface, the white balance of red, green, blue and white of the total LED of the lamp and LED1-19 can be adjusted, with 255 indicating the maximum white balance.
Other calibration	Voice sensitivity calibration and password modification.

➤ **Advanced mode**

Option	Explain
network	Can change IP/MS
data package	Net(0-127)/Sub_Uni can be changed.
Lamp holder reset	Effects other than XY motor reset
XY reset	XY axis reset
Reset all	Lamp reset

➤ System information

option	explain
Reset information	If the red ERR indicator lights up, it means that the lamps are running incorrectly, and the details can be viewed in the sub-interface.
DMX data monitoring	From this, the sub-interface is entered, and the channel value is displayed numerically for viewing.
Sensor information	Real-time monitoring the status of optical coupler, Hall and other sensors on the lamp
Hardware version number	Hardware information of lamps
Software version number	Lamp software version

4. DMX Channel Table

DMX 512 32CHs

CH	Function	Value	Description
CH1	Red	0-255	Brightness from dark to bright
CH2	Red Fine	0-255	Red Fine
CH3	Green	0-255	Brightness from dark to bright
CH4	Green Fine	0-255	Green Fine
CH5	Blue	0-255	Brightness from dark to bright
CH6	Blue Fine	0-255	Blue Fine
CH7	White	0-255	Brightness from dark to bright
CH8	White Fine	0-255	White Fine
CH9	CTO	0-255	Linear cto adjustment
CH10	Macro	0-255	Built-in macro
CH11	Strobe	0-3	Off
		4-103	Synchronous strobe slow to fast
		104-107	Light on
		108-207	Bisecting the stroboscopic speed from slow to

			fast
		208-212	Light on
		213-225	Low speed random strobe
		226-238	Middle speed random strobe
		239-251	High Speed random strobe
		252-255	Light on
CH12	Dimmer	0-255	0-100% dimmer
CH13	Dimmer Fine	0-255	Dimmer Fine
CH14	Pan	0-255	Pan
CH15	Pan Fine	0-255	Pan Fine
CH16	Tilt	0-255	Tilt
CH17	Tilt Fine	0-255	Tilt Fine
CH18	Function	0-255	Keep
CH19	Reset	0-25	None
		26-76	Head reset after 5s
		77-127	Pan/Tilt reset after 5s
		128-255	All reset after 5s
CH20	Zoom	0-255	Zoom
CH21	Lens Rotation	0-127	From 0-60°
		128-188	Counterclockwise endless rotate from fast to slow
		189-193	Stop
		194-255	Clockwise endless rotate from fast to slow
CH22	Frequency	0-31	1K frequency
		32-63	1.5K frequency
		64-95	2K frequency
		96-127	2.5K frequency
		128-159	3K frequency
		160-191	4K frequency
		192-223	6K frequency
		224-255	10K frequency

CH23	LED Strip Dimmer	0-255	LED Strip Dimmer
CH24	LED Strip Strobe	0-255	LED Strip Strobe
CH25	LED Strip Red	0-255	LED Strip Red
CH26	LED Strip Green	0-255	LED Strip Green
CH27	LED Strip Blue	0-255	LED Strip Blue
CH28	LED Strip Effect	0-4	No
		5-144	Every 7 value 1 effect, total 20 effects
		145-255	LED Strip Effect
CH29	Effect Sped	0-255	LED Strip Effect Sped
CH30	LED Strip Effect Background Red	0-255	LED Strip Effect Background Red
CH31	LED Strip Effect Background Green	0-255	LED Strip Effect Background Green
CH32	LED Strip Effect Background Blue	0-255	LED Strip Effect Background Blue

DMX 512 32CHs

CH	Function	Value	Description
CH1	Pan	0-255	Pan
CH2	Pan Fine	0-255	Pan Fine
CH3	Tilt	0-255	Tilt
CH4	Tilt Fine	0-255	Tilt Fine
CH5	Pan/Tilt speed	0-255	Pan/Tilt speed
CH6	Zoom	0-255	Zoom
CH7	Lens Rotation	0-127	From 0-60°
		128-188	Counterclockwise endless rotate from fast to slow

		189-193	Stop
		194-255	Clockwise endless rotate from fast to slow
CH8	Dimmer	0-255	0-100% dimmer
CH9	Strobe	0-3	Off
		4-103	Synchronous strobe slow to fast
		104-107	Light on
		108-207	Bisecting the stroboscopic speed from slow to fast
		208-212	Light on
		213-225	Low speed random strobe
		226-238	Middle speed random strobe
		239-251	High Speed random strobe
		252-255	Light on
CH10	Red	0-255	Brightness from dark to bright
CH11	Green	0-255	Brightness from dark to bright
CH12	Blue	0-255	Brightness from dark to bright
CH13	White	0-255	Brightness from dark to bright
CH14	CTO	0-255	Linear cto adjustment
CH15	Macro	0-255	Built-in macro
CH16	Static Effect	0-9	No
		10-14	Effect 1
		15-19	Effect 2
		20-24	Effect 3
		****	Every 5 value for 1 effect

		175-179	Effect 34
		180-184	Effect 35
		185-255	Effect 36
CH17	Dynamic Effect	0-9	No
		10-14	Effect 1

		15-19	Effect 2
		20-24	Effect 3
		****	Every 5 value for 1 effect

		220-224	Effect 34
		225-229	Effect 35
		230-255	Effect 36
CH18	Dynamic Effect Speed	0-126	Forward from fast to slow
		127-128	Stop
		129-255	Reverse from slow to fast
CH19	Background Red	0-255	Background Red
CH20	Background Green	0-255	Background Green
CH21	Background Blue	0-255	Background Blue
CH22	Background White	0-255	Background White
CH23	Reset	0-25	None
		26-76	Head reset after 5s
		77-127	Pan/Tilt reset after 5s
		128-255	All reset after 5s
CH24	Frequency	0-31	1K frequency
		32-63	1.5K frequency
		64-95	2K frequency
		96-127	2.5K frequency
		128-159	3K frequency
		160-191	4K frequency
		192-223	6K frequency
		224-255	10K frequency
CH25	LED Strip	0-255	LED Strip Dimmer

	Dimmer		
CH26	LED Strip Strobe	0-255	LED Strip Strobe
CH27	LED Strip Red	0-255	LED Strip Red
CH28	LED Strip Green	0-255	LED Strip Green
CH29	LED Strip Blue	0-255	LED Strip Blue
CH30	LED Strip Effect	0-4	No
		5-144	Every 7 value 1 effect, total 20 effects
		145-255	LED Strip Effect
CH31	Effect Sped	0-255	LED Strip Effect Sped
CH32	LED Strip Effect Background Red	0-255	LED Strip Effect Background Red
CH33	LED Strip Effect Background Green	0-255	LED Strip Effect Background Green
CH34	LED Strip Effect Background Blue	0-255	LED Strip Effect Background Blue

DMX 512 46CHs

CH	Function	Value	Description
CH1	Red	0-255	Brightness from dark to bright
CH2	Red Fine	0-255	Red Fine
CH3	Green	0-255	Brightness from dark to bright
CH4	Green Fine	0-255	Green Fine
CH5	Blue	0-255	Brightness from dark to bright
CH6	Blue Fine	0-255	Blue Fine
CH7	White	0-255	Brightness from dark to bright
CH8	White Fine	0-255	White Fine
CH9	CTO	0-255	Linear cto adjustment
CH10	Macro	0-255	Built-in macro

CH11	Strobe	0-3	Off
		4-103	Synchronous strobe slow to fast
		104-107	Light on
		108-207	Bisecting the stroboscopic speed from slow to fast
		208-212	Light on
		213-225	Low speed random strobe
		226-238	Middle speed random strobe
		239-251	High Speed random strobe
		252-255	Light on
CH12	Dimmer	0-255	0-100% dimmer
CH13	Dimmer Fine	0-255	Dimmer Fine
CH14	Pan	0-255	Pan
CH15	Pan Fine	0-255	Pan Fine
CH16	Tilt	0-255	Tilt
CH17	Tilt Fine	0-255	Tilt Fine
CH18	Function	0-255	Keep
CH19	Reset	0-25	None
		26-76	Head reset after 5s
		77-127	Pan/Tilt reset after 5s
		128-255	All reset after 5s
CH20	Zoom	0-255	Zoom
CH21	Lens Rotation	0-127	From 0-60°
		128-188	Counterclockwise endless rotate from fast to slow
		189-193	Stop
		194-255	Clockwise endless rotate from fast to slow
CH22	Built-In Effect(Color)	0-13	Static Effect 1-5
		14	No
		15-70	Dynamic Effect from 1-40
		71-255	No

CH23	Effect Speed	0-60	Effect static
		61-158	Forward from fast to slow
		0-255	No
		0-255	Reverse from slow to fast
CH24	Effect dilution	0-255	Dynamic Effect dilution
CH25	Effect Red	0-255	Dynamic Effect Red
CH26	Effect Green	0-255	Dynamic Effect Green
CH27	Effect Blue	0-255	Dynamic Effect Blue
CH28	Effect White	0-255	Dynamic Effect White
CH29	Effect Dimmer	0-255	Effect Dimmer
CH30	Background Dimmer	0-255	Background Dimmer
CH31	Effect transition	0-255	Effect transition
CH32	Effect supplement	0-255	Effect supplement
CH33	Foreground Strobe	0-255	Foreground Strobe
CH34	Background Strobe	0-255	Background Strobe
CH35	Background Selection	0-255	Background Selection
CH36	Frequency	0-31	1K frequency
		32-63	1.5K frequency
		64-95	2K frequency
		96-127	2.5K frequency
		128-159	3K frequency
		160-191	4K frequency
		192-223	6K frequency
		224-255	10K frequency
CH37	LED Strip Dimmer	0-255	LED Strip Dimmer

CH38	LED Strip Strobe	0-255	LED Strip Strobe
CH39	LED Strip Red	0-255	LED Strip Red
CH40	LED Strip Green	0-255	LED Strip Green
CH41	LED Strip Blue	0-255	LED Strip Blue
CH42	LED Strip Effect	0-4	No
		5-144	Every 7 value 1 effect, total 20 effects
		145-255	LED Strip Effect
CH43	Effect Sped	0-255	LED Strip Effect Sped
CH44	LED Strip Effect Background Red	0-255	LED Strip Effect Background Red
CH45	LED Strip Effect Background Green	0-255	LED Strip Effect Background Green
CH46	LED Strip Effect Background Blue	0-255	LED Strip Effect Background Blue

DMX 512 78CHs

CH	Function	Value	Description
CH1	Red	0-255	Red
CH2	Red Fine	0-255	Red Fine
CH3	Green	0-255	Green
CH4	Green Fine	0-255	Green Fine
CH5	Blue	0-255	Blue
CH6	Blue Fine	0-255	Blue Fine
CH7	White	0-255	White
CH8	White Fine	0-255	White Fine
CH9	CTO	0-255	CTO
CH10	Macro	0-255	Macro
CH11	Strobe	0-3	Off
		4-103	Synchronous strobe slow to fast

		104-107	Light on
		108-207	Bisecting the stroboscopic speed from slow to fast
		208-212	Light on
		213-225	Low speed random strobe
		226-238	Middle speed random strobe
		239-251	High Speed random strobe
		252-255	Light on
CH12	Dimmer	0-255	Dimmer
CH13	Dimmer Fine	0-255	Dimmer Fine
CH14	Pan	0-255	Pan
CH15	Pan Fine	0-255	Pan Fine
CH16	Tilt	0-255	Tilt
CH17	Tilt Fine	0-255	Tilt Fine
CH18	Function	0-255	Keep
CH19	Reset	0-25	None
		26-76	Head reset after 5s
		77-127	Pan/Tilt reset after 5s
		128-255	All reset after 5s
CH20	Zoom	0-255	
CH21	Lens Rotation	0-127	From 0-60°
		128-188	Counterclockwise endless rotate from fast to slow
		189-193	Stop
		194-255	Clockwise endless rotate from fast to slow
CH22	Red LED 1	0-255	Red LED 1
CH23	Green LED 1	0-255	Green LED 1
CH24	Blue LED 1	0-255	Blue LED 1
CH25	Red LED 2	0-255	Red LED 2
CH26	Green LED 2	0-255	Green LED 2
CH27	Blue LED 2	0-255	Blue LED 2

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CH70	Red LED 17	0-255	Red LED 17
CH71	Green LED 17	0-255	Green LED 17
CH72	Blue LED 17	0-255	Blue LED 17
CH73	Red LED 18	0-255	Red LED 18
CH74	Green LED 18	0-255	Green LED 18
CH75	Blue LED 18	0-255	Blue LED 18
CH76	Red LED 19	0-255	Red LED 19
CH77	Green LED 19	0-255	Green LED 19
CH78	Blue LED 19	0-255	Blue LED 19

DMX 512 92CHs

CH	Function	Value	Description
CH1	Red	0-255	Red
CH2	Red Fine	0-255	Red Fine
CH3	Green	0-255	Green
CH4	Green Fine	0-255	Green Fine
CH5	Blue	0-255	Blue
CH6	Blue Fine	0-255	Blue Fine
CH7	White	0-255	White
CH8	White Fine	0-255	White Fine
CH9	CTO	0-255	CTO
CH10	Macro	0-255	Macro
CH11	Strobe	0-3	Off
		4-103	Synchronous strobe slow to fast
		104-107	Light on
		108-207	Bisecting the stroboscopic speed from slow to fast

		208-212	Light on
		213-225	Low speed random strobe
		226-238	Middle speed random strobe
		239-251	High Speed random strobe
		252-255	Light on
CH12	Dimmer	0-255	Dimmer
CH13	Dimmer Fine	0-255	Dimmer Fine
CH14	Pan	0-255	Pan
CH15	Pan Fine	0-255	Pan Fine
CH16	Tilt	0-255	Tilt
CH17	Tilt Fine	0-255	Tilt Fine
CH18	Function	0-255	Keep
CH19	Reset	0-25	None
		26-76	Head reset after 5s
		77-127	Pan/Tilt reset after 5s
		128-255	All reset after 5s
CH20	Zoom	0-255	Zoom
CH21	Lens Rotation	0-127	From 0-60°
		128-188	Counterclockwise endless rotate from fast to slow
		189-193	Stop
		194-255	Clockwise endless rotate from fast to slow
CH22	Built-In Effect(Color)	0-13	Static Effect 1-5
		14	No
		15-70	Dynamic Effect from 1-40
		71-255	No
CH23	Effect Speed	0-60	Effect static
		61-158	Forward from fast to slow
		0-255	No
		0-255	Reverse from slow to fast
CH24	Effect dilution	0-255	Dynamic Effect dilution

CH25	Effect Red	0-255	Dynamic Effect Red
CH26	Effect Green	0-255	Dynamic Effect Green
CH27	Effect Blue	0-255	Dynamic Effect Blue
CH28	Effect White	0-255	Dynamic Effect White
CH29	Effect Dimmer	0-255	Effect Dimmer
CH30	Background Dimmer	0-255	Background Dimmer
CH31	Effect transition	0-255	Effect transition
CH32	Effect supplement	0-255	Effect supplement
CH33	Foreground Strobe	0-255	Foreground Strobe
CH34	Background Strobe	0-255	Background Strobe
CH35	Background Selection	0-255	Background Selection
CH36	Red LED 1	0-255	Red LED 1
CH37	Green LED 1	0-255	Green LED 1
CH38	Blue LED 1	0-255	Blue LED 1
CH39	Red LED 2	0-255	Red LED 2
CH40	Green LED 2	0-255	Green LED 2
CH41	Blue LED 2	0-255	Blue LED 2
CH42	Red LED 3	0-255	Red LED 3
CH43	Green LED 3	0-255	Green LED 3
CH44	Blue LED 3	0-255	Blue LED 3
CH45	Red LED 4	0-255	Red LED 4
CH46	Green LED 4	0-255	Green LED 4
CH47	Blue LED 4	0-255	Blue LED 4
CH48	Red LED 5	0-255	Red LED 5
CH49	Green LED 5	0-255	Green LED 5
CH50	Blue LED 5	0-255	Blue LED 5

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CH84	Red LED 17	0-255	Red LED 17
CH85	Green LED 17	0-255	Green LED 17
CH86	Blue LED 17	0-255	Blue LED 17
CH87	Red LED 18	0-255	Red LED 18
CH88	Green LED 18	0-255	Green LED 18
CH89	Blue LED 18	0-255	Blue LED 18
CH90	Red LED 19	0-255	Red LED 19
CH91	Green LED 19	0-255	Green LED 19
CH92	Blue LED 19	0-255	Blue LED 19

DMX 512 97CHs

CH	Function	Value	Description
CH1	Red	0-255	Red
CH2	Red Fine	0-255	Red Fine
CH3	Green	0-255	Green
CH4	Green Fine	0-255	Green Fine
CH5	Blue	0-255	Blue
CH6	Blue Fine	0-255	Blue Fine
CH7	White	0-255	White
CH8	White Fine	0-255	White Fine
CH9	CTO	0-255	CTO
CH10	Macro	0-255	Macro
CH11	Strobe	0-3	Off
		4-103	Synchronous strobe slow to fast

		104-107	Light on
		108-207	Bisecting the stroboscopic speed from slow to fast
		208-212	Light on
		213-225	Low speed random strobe
		226-238	Middle speed random strobe
		239-251	High Speed random strobe
		252-255	Light on
CH12	Dimmer	0-255	Dimmer
CH13	Dimmer Fine	0-255	Dimmer Fine
CH14	Pan	0-255	Pan
CH15	Pan Fine	0-255	Pan Fine
CH16	Tilt	0-255	Tilt
CH17	Tilt Fine	0-255	Tilt Fine
CH18	Function	0-255	Keep
CH19	Reset	0-25	None
		26-76	Head reset after 5s
		77-127	Pan/Tilt reset after 5s
		128-255	All reset after 5s
CH20	Zoom	0-255	Zoom
CH21	Lens Rotation	0-127	From 0-60°
		128-188	Counterclockwise endless rotate from fast to slow
		189-193	Stop
		194-255	Clockwise endless rotate from fast to slow
CH22	Red LED 1	0-255	Red LED 1
CH23	Green LED 1	0-255	Green LED 1
CH24	Blue LED 1	0-255	Blue LED 1
CH25	White LED 1	0-255	White LED 1
CH26	Red LED 2	0-255	Red LED 2
CH27	Green LED 2	0-255	Green LED 2

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CH28	Blue LED 2	0-255	Blue LED 2
CH29	White LED 2	0-255	White LED 2
CH30	Red LED 3	0-255	Red LED 3
CH31	Green LED 3	0-255	Green LED 3
CH32	Blue LED 3	0-255	Blue LED 3
CH33	White LED 3	0-255	White LED 3
CH34	Red LED 4	0-255	Red LED 4
CH35	Green LED 4	0-255	Green LED 4
CH36	Blue LED 4	0-255	Blue LED 4
CH37	White LED 4	0-255	White LED 4
CH38	Red LED 5	0-255	Red LED 5
CH39	Green LED 5	0-255	Green LED 5
CH40	Blue LED 5	0-255	Blue LED 5
CH41	White LED 5	0-255	White LED 5
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CH86	Red LED 17	0-255	Red LED 17
CH87	Green LED 17	0-255	Green LED 17
CH88	Blue LED 17	0-255	Blue LED 17
CH89	White LED 17	0-255	White LED 17
CH90	Red LED 18	0-255	Red LED 18
CH91	Green LED 18	0-255	Green LED 18
CH92	Blue LED 18	0-255	Blue LED 18
CH93	White LED 18	0-255	White LED 18
CH94	Red LED 19	0-255	Red LED 19

CH95	Green LED 19	0-255	Green LED 19
CH96	Blue LED 19	0-255	Blue LED 19
CH97	White LED 19	0-255	White LED 19

DMX 512 99CHs

CH	Function	Value	Description
CH1	Pan	0-255	Pan
CH2	Pan Fine	0-255	Pan Fine
CH3	Tilt	0-255	Tilt
CH4	Tilt Fine	0-255	Tilt Fine
CH5	Pan/Tilt speed	0-255	Pan/Tilt speed
CH6	Zoom	0-255	Zoom
CH7	Lens Rotation	0-127	From 0-60°
		128-188	Counterclockwise endless rotate from fast to slow
		189-193	Stop
		194-255	Clockwise endless rotate from fast to slow
CH8	Dimmer	0-255	0-100% dimmer
CH9	Strobe	0-3	Off
		4-103	Synchronous strobe slow to fast
		104-107	Light on
		108-207	Bisecting the stroboscopic speed from slow to fast
		208-212	Light on
		213-225	Low speed random strobe
		226-238	Middle speed random strobe
		239-251	High Speed random strobe
		252-255	Light on
CH10	Red	0-255	Brightness from dark to bright
CH11	Green	0-255	Brightness from dark to bright

CH12	Blue	0-255	Brightness from dark to bright
CH13	White	0-255	Brightness from dark to bright
CH14	CTO	0-255	Linear cto adjustment
CH15	Macro	0-255	Built-in macro
CH16	Static Effect	0-9	No
		10-14	Effect 1
		15-19	Effect 2
		20-24	Effect 3
		****	Every 5 value for 1 effect

		175-179	Effect 34
		180-184	Effect 35
		185-255	Effect 36
CH17	Dynamic Effect	0-9	No
		10-14	Effect 1
		15-19	Effect 2
		20-24	Effect 3
		****	Every 5 value for 1 effect

		220-224	Effect 34
		225-229	Effect 35
		230-255	Effect 36
CH18	Dynamic Effect Speed	0-126	Forward from fast to slow
		127-128	Stop
		129-255	Reverse from slow to fast
CH19	Background Red	0-255	Background Red
CH20	Background Green	0-255	Background Green
CH21	Background	0-255	Background Blue

	Blue		
CH22	Background White	0-255	Background White
CH23	Reset	0-25	None
		26-76	Head reset after 5s
		77-127	Pan/Tilt reset after 5s
		128-255	All reset after 5s
CH24	Red LED 1	0-255	Red LED 1
CH25	Green LED 1	0-255	Green LED 1
CH26	Blue LED 1	0-255	Blue LED 1
CH27	White LED 1	0-255	White LED 1
CH28	Red LED 2	0-255	Red LED 2
CH29	Green LED 2	0-255	Green LED 2
CH30	Blue LED 2	0-255	Blue LED 2
CH31	White LED 2	0-255	White LED 2
CH32	Red LED 3	0-255	Red LED 3
CH33	Green LED 3	0-255	Green LED 3
CH34	Blue LED 3	0-255	Blue LED 3
CH35	White LED 3	0-255	White LED 3
CH36	Red LED 4	0-255	Red LED 4
CH37	Green LED 4	0-255	Green LED 4
CH38	Blue LED 4	0-255	Blue LED 4
CH39	White LED 4	0-255	White LED 4
CH40	Red LED 5	0-255	Red LED 5
CH41	Green LED 5	0-255	Green LED 5
CH42	Blue LED 5	0-255	Blue LED 5
CH43	White LED 5	0-255	White LED 5

CH88	Red LED 17	0-255	Red LED 17
CH89	Green LED 17	0-255	Green LED 17
CH90	Blue LED 17	0-255	Blue LED 17
CH91	White LED 17	0-255	White LED 17
CH92	Red LED 18	0-255	Red LED 18
CH93	Green LED 18	0-255	Green LED 18
CH94	Blue LED 18	0-255	Blue LED 18
CH95	White LED 18	0-255	White LED 18
CH96	Red LED 19	0-255	Red LED 19
CH97	Green LED 19	0-255	Green LED 19
CH98	Blue LED 19	0-255	Blue LED 19
CH99	White LED 19	0-255	White LED 19

5. 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.

6. 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.**