LIGHTING

Laser Lighting
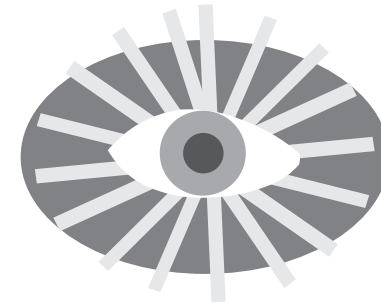
Instruction
Manual

Catalogue

★ Rules

一、Inspection

Thanks for your purchasing, please read this manual carefully before operating the system. It gives you general information for your safe and better operation.Check the goods is receive in good condition, and check for the contents in the package refers to the following list:
　1、LightX 1　　2、Instruction Manual X 1
　3、Power cable X 1

二、Notices

1、Perform the Instruction Manual for operation, please don't disassemble the light rudely. Installation should be made by professional technician. The laser light has a fault, please inquire with the professional or contact with the factory.
2、The light well protected against dampness, moisture, rust and shock. Do not use the product in dusty place.
3、The distance between lighting and the object that light falls on should be more than 1 meter.
4、Prevent other subject enter into the lighting.
5、Ensure the fan is not blocked.
6、Do not look into the laser source
7、Do not turn on and turn off frequently, and avoid to turn on the power for a long time.
8、Please power off the lighting for 15 minutes after running two hours, ensure that the laser system is in well cooling state.
9、Do not touch the laser lighting by wet hand and forcefully pull the power line.
10、Prevent the laser light from strong vibration or punch.
11、Do not dismantle the lighting.
12、Please directly contact with the local dealer when the trouble occurred.
13、When to be transported, use the original package to avoid shocking.

三、Installation

1、Firstly, be sure that the using voltage is match with the voltage marked on the light.
2、Installation should be made by professional technician. Fix the laser lighting and adjust the angle of the light to you nee.
3、Be sure that there is no flammable or explosive subject nearby. The least distance is 0.5 meters. At the same time, keep more than 15cm between the wall and the laser light.
4、Please check whether the fan and the exhaust is blocked.
5、There is a hole for connection. When hang the laser light, be sure the cable can undertake 10 times of the light weight.
6、It's essential to be earthed well for the sake of safety.
7、It's very important that connect the ground line to ground.

四、Warning

1、Power off before installation or maintenance.
2、The danger of this laser light is CLASS Ⅲ B. It's dangerous for observing laser. The safe minimum distance is 13cm; the safe maximum time is 10 seconds
3、Keep at least 0.5 meters distance between the lighting and flammable material

CAUTION
Laser dangerous,
Do not open sorce;
Risk of hypertension,
Dismounting from arbitraily
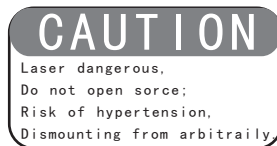
★ Fault Analysis and exclusion

Faults	analyze the causes	remove failures
Without electricity	the Fuse burned out	change the fuse
No music-active or insensitive	MIC broken	MIC
	NCboard broken	NCboard
	Potentiometer broken	Potentiometer
XY ineffective No beams showing Scanner vibration	Scanner broken	scanning motor
	NC board broken	NCboard
	scanning board broken	scanning board
No light or light weakness Black out, but others normal	Lens dirty	See Page3 Maintenance
	Laser diode broken Blue diode	Green diode, Red diode,
	NC board broken	NCboard
	Wrong operation about the working mode	See Page 6 Instruction
Out of control, but other diode fan normal	Wrong operation about theworking mode	See Page 6 Instruction
	NC board broken	NCboard
	SMPS broken	±12V

★Instructions

Master synchronous mode

1、Set the working mode: set one laser light as the master, the others as slave.
The master controlled slave to showing the beams and patterns for the purpose
of the synchronization. See Page 5 Functional settings.
2、Connected the On-line cable, Using the XLR-XLR, connect the outputs of the
master Lennon XLR with the inputs of the first slave Lennon XLR, and connect the
outputs of the first slave Lennon XLR with the inputs of the second slave light, so
all the links from the end
3、Please turn the sensitivity knob of the master light(in the music-active mode)
to moderate position.
Note: It doesn't need the DMX controller under the master-slave synchronous;
not multi-master light; otherwise the slave light would have errors. The slave
electricity time can't lag behind the master light, suggest use the same current.
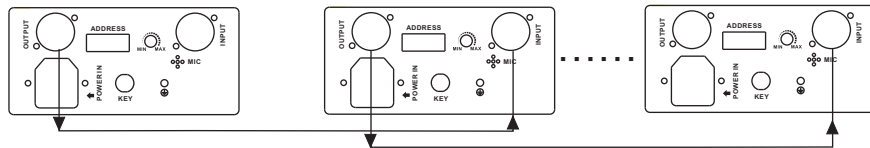
1 : MASTER:SOUND/AUTO   2:SLAVE MODE   N:SLAVE   MODE

The main mode from the wiring diagram
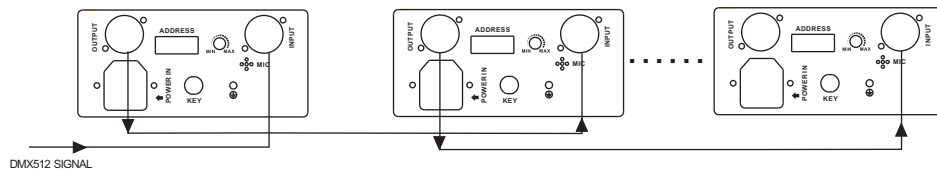
USAGEOFDIPSWITCH   USAGEOFDIPSWITCH   USAGEOFDIPSWITCH

DMX mode

1、Set the DMX mode, and distribute the DMX starting channel address.
See Page 5 Functional settings.
2、Connected the controlling cable. Using the DMX line, connect the
outputs of the DMX controller with the inputs of the first light Lennon, and
connect the outputs of the first Lennon to the inputs of the second light,
so all the links from the end.
3、Turn on the current, the DMX controller start to work.
Note: there is no master light under DMX mode; otherwise all of the lights
would not be controlled.

DMX512 SIGNAL

1 : DMX MODE   2 : DMX MODE   N : DMX MODE

DMX mode wiring diagram

USAGEOFDIPSWITCH   USAGEOFDIPSWITCH   USAGEOFDIPSWITCH

★Maintenance

Maintenance

1、Please clean the lens regularly. Do not do it using the wet cloth or other chemical.
The clean times is depend on the using frequency and surrounding condition;
it is recommended that should be cleaned every 20 days.
2、Please clean the lighting surface and engine outlet regularly

## ★Performance Trait

◆ Uses the advanced laser control technology and the high accuracyinspires
the mirror rapid scanning, the life is long, the low powerloss,
May make the writing performance, the animation performance,the light
beam performance, the laser advertisement;
May act according to the customer request custom make design.

★Technial parameters

◆ rated voltage: AC85-265V 50HZ-60HZ(Auto-adjust)
◆ rated power: 30W
◆ laser power: 60*2mW green/100*2mW red light
◆ laser wave length: Green laser wave length 532nm;
   Red laser wave length 650nm;
◆ laser color: green light+ red light
◆ sweeping system: 15Kpps scanner system
◆ control mode: stand alone,music active,DMX512
◆ DMX512: 9 channels
◆ cooling system: Fan system
◆ lamp body size: L810×D155×H125 (mm)
◆ laser weight: 4Kg
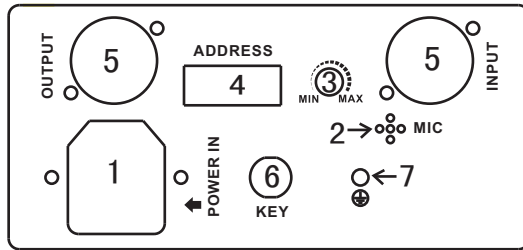
Back Board Sketch

1、POWER: Power sockets with fuses (2A)

3、MIN-MAX

2、MIC

5、DMX 512 IN/OUT
6、KEY
7、GROUND LINE

4、Address: The Tenth dial switch is Sound-active number. When the tenth dial as ON, the laser lighting is Auto-playing mode. When the tenth dial as OFF, accept the DMX signal, 1-9 dial as the DMX ADDRESS CODE,normally set address code of the firs light as 1,the second light as 17,etc.

● The voice mode   ● From the pattern set

Function	USAGEOFDIPSWITCH
Music-active mode	
Master-slave mode	

● Address code:
In the second-band, each Numerical only "0" and "1", precisely corresponding "OFF" or "ON" DMX address code, for example:

Decimal base	Binary system LSB1 → MSB9	USAGEOFDIPSWITCH
1	000000000	
17	100000000	
33	111000000	
49	101100000	

Products within the 42 preset patterns, users can set different conditions for the use of the control method:

1．Single mode voice: built-in lamps will run voice procedures, these procedures only call the lamp 25 geometric patterns, a total of 45 kinds of effects, each about continuing effect of about 12 seconds;

2．Voice synchronization modes: Main running lights built-in voice procedures, by the lights of the main light control and step;

3.DMX512mode: Via DMX512 controller,you can use the 42 gobos freely, also you can make a good show throughthe DMX512 controller, but please take attention to the sound activate status (Push the channel 1 the toppest), turn on sound, the light will run after response from the sound, the detail of DMX512 channels as blows.