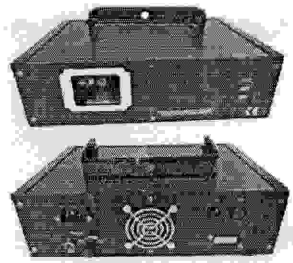
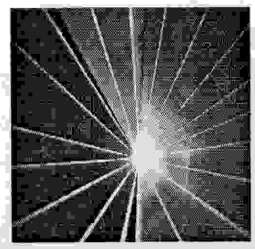
Three-color animation laser light

User Guide

light BIG
DESIGN BY GERMANY





Thank you for using the laser performer. For the sake of safety and better operation of this projector, please read this manual carefully before use and operate the projector , lest incur any personal injury or damage to the projector.

● Package list:

When you unpack the case , please take time to examine the items as follow:

---------- projector 1

---------- Power cord 1

----------Owner `s manual 1

----------projector sling

● Product Introduction:

The projector adopts the latest appearance design to make it compact and light. The housing use imported paint.

The scanning system is vibratory mirror(15kpps-25kpps), DMX-512 signal 22 channels , international standard DMX-512 signal control or ILDA signal control.

Control modes: DMX-512 signal control , music control ,automatic, master and slave, ILDA.

The laser projector was applied for the place of public entertainment such as disco, night club and theater etc.

● Function Introduction:

Laser module is semiconductor generator, laser wavelength are 532nm/green and 650nm/red, the two different laser module are combined to give off the yellow laser light. The laser light source has a long life span and highly stability, complying with the international standard.

● Instructions

After unpacking, check whether the projector has been damaged by transport such as any screw loosening, reflecting mirror broken, etc. If everything is OK, select a proper location, hang the projector and adjust its angle properly, then connect the power cord and the ground wire before switch on at the means. Notice that while using this projector the green and yellow wire has to connect the ground properly by professionals. Please examine the electrics and voltage before power on it. We suggest customer apply 220V or a transformer. 20 seconds after powered on the projector, it will self-check and then can be used.

Because of the radiate laser generator `s own characteristic, please terminate it for 10 minutes after using it for 30 minutes to secure the laser `s long life span.

Avoid being interfered by other signals while using the DMX-512 signal controller.

● Technical Parameters:

Rated voltage: AC220V ±10%

Rated frequency: 50HZ~60HZ

Power consumption: 50w

Laser power: 200Mw

Laser source: solid semiconductor laser generator

Color: R:150mw(650nm) G:50mw(532nm)

Scanning: 15kpps-25kppsmirror system

Channels : 15CH

Control mode: music control, DMX-512 signal control, automatic, master and slave or ILDA signal control.

Cool system: fan

Operating environment: indoor

●Channel `s function:

The GREEN laser light adopts international standard DMX-512 signal, and there are 15 channels, details as below:

Channel	Function	DMX 512	Specification
1	Play mode	0-63	Off
		64-127	Auto mode (music active)
		128-191	Auto mode (auto active)
		192-255	Manual (auto active)
2	Color selection	0-63	Off
		64-127	Irradiance (with blanking)
		128-191	Irradiance (without blanking)
		192-255	Dot effect
3	Gobo selection	0-255	32 gobos(0 255)/8=0 31
4	Gobo rotation	0-255	4 gobo group(0 255)/64=0 3
5	Horizontal rotation	0-127	Stationary Pan(0 360 degree)
		128-191	Pan clockwise rotation speed(8 grade)
		192-255	Pan anti-clockwise rotation speed(8 grade)
6	Vertical rotation	0-127	Stationary Tilt(0 360 degree)
		128-191	Tilt clock wise rotate speed(8 grade)
		192-255	Tilt anti-clock wise rotate speed(8 grade)
7	Centre rotation	0-127	Stationary centre rotate angle(0 360 degree)
		128-191	Centre clock wise rotate speed(8 grade)
		192-255	Centre anti-clockwise rotate speed(8 grade)
8	Horizontal move	0-127	Stationary horizontal move
		128-255	Horizontal move speed(8 grade)
9	Vertical move	0-127	Stationary vertical move
		128-255	vertical move speed(8 grade)
10	Horizontal elongate	0-127	Stationary horizontal elongate
		128-255	Horizontal elongate speed(8 grade)
11	Vertical elongate	0-127	Stationary vertical elongate
		128-255	vertical elongate speed(8 grade)
12	Gobo zoom	0-2	Original size
		3-127	Gobo size from small to big(127 grade)
		128-169	Gobo dynamic zoom from small to big(41 grade)
		170-211	Gobo zoom from big to small(41 grade)
		212-255	Gobo dynamic cycle zoom(41 grade)
13	Gradual drawing mode	0-3	Without gradual drawing mode
		4-255	Gradual drawing speed(16 grade)
14	Scanning speed	0-2	Default scanning speed(value:6)
		3-255	252 grade scanning speed
15	Flash speed	0-255	9 grade flashing speed(0 255)/31=0 8(0 grade without flash

●Signal Connection and Address Code Dialing:

This GREEN laser performance system has controlled by on/off switch address code. 1 to 9 are the numerical value of DMX 512 signal switch,10 is the exchange switch of DMX512 signal control and music control、automatic、master and slave.

Control mode set up detail as bellow:

	MODE	Control switch (ON)
1	DMX-512	1-10set address, 2.3.4.5.6.7.8.9 is off
2	Sound Controlled mode and master projector	1.2.3.4.5.6.7.8.9.10 is ON,
3	Automatic Control mode and master projector	1 is ON
4	Slave projector synchronization control mode	All are off and connected by DMX

Under sound active control mode: There is a sound sensitivity adjustment function, so you can adjust it to the optimum sound according to your requirement.

Operation of double –patterns controlling under DMX-512 control mode.

1、Under DMX-512 control mode (10:on), CH1: 84～125 is for pattern A controlling CH1:126～167 is for pattern B controlling。

2、CH2 is for patterns selection，CH3 is for controlling mode selection.，CH4: 0~127 is for moving speed adjustment of double patterns(from slow to fast)， CH4:128~255 is for moving speed adjustment of single pattern(from slow to fast),can be realized changed from double patterns into single pattern，patter A or pattern B)。

3、CH5 is for color control mode selection.,CH6 is for color changing speed adjustment (from fast to slow)。

ILDA signal control mode:

When connected to ILDA signal, the switch will automatically turn to ILDA signal control mode.

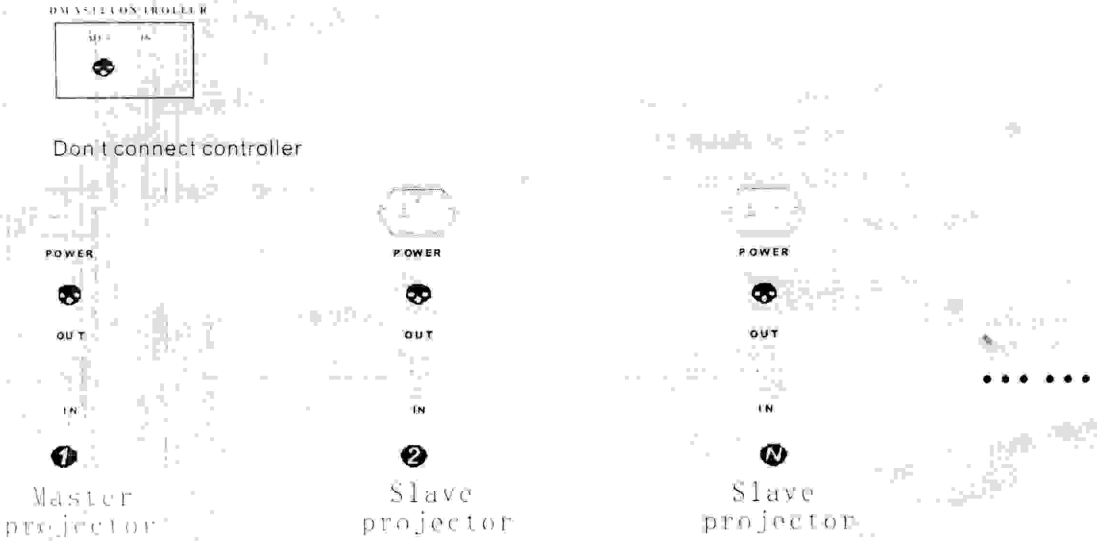
Attention: Power off before the connection of ILDA signal to avoid the damage of the projector.

Attention of Master/Slave Control Mode:

1.You can not connect to the DMX-512 controller when the master and slave projector are operating synchronously, otherwise the master and slave synchronous functions can't be realized;

2.When operating the master and slave controlling, it must be only one master projector, otherwise it can not be operated synchronously.

Master and Slave connection as bellow:



● **Safety marks:**

- ! Please make sure to switch off the power before installation or maintenance.
- ! Please keep the fan expedite and environment ventilated.
- ! This laser projector is designed for the indoor, so while using, please avoid any dripping. If you want to use for outdoor, please do enough waterproof measure.
- ! Before maintenances, please refer to eligible personnel
- ! Do not use any power voltage and light type of different specifications
- ! Please do not see the laser light directly, in case it might damage the eyes.
- ! Avoid electric shock! Bulb overheating.
- ! Do not use it frequently under the humid atmosphere.

●Maintenance:

It is very important to keep the laser light clean, therefore please clean reflector lens monthly to keep the lights away from dust, dirt or fog juice. We suggest that clean the light with professional glass cleaning lotion and downy cloth. Keep the light clean regularly will not only maintain the maximum laser output brightness but also will extend the life span of the laser.