



®

**LASER DISPLAY SYSTEM**

**USER MANUAL**

**SEVEN STARS®**

**Big Dipper Laser Science And Technology Co., Ltd**  
REV: 1.01

**Please read this manual carefully before operating**

# **LASER DISPLAY SYSTEM USER MANUAL**

**Model: B102RGB-4**

## **Notices information**

1. This is IV laser product .Avoid eyes direct exposure to the laser light.
2. Operate abide by the user manual .Do not disassemble or repair the system by yourself. When there is a problem, please contact technician, or your local dealer.
3. Installation should be done by professional technician.
4. Please set the laser product far away from those things as strobe light.
- 5.The system should be kept dry .please don't exposure the system to wet or dust-laden environment. Need water proof protection when use it in the open air
6. Do not touch the system by wet hand or pull the power cable forcefully.
7. The work temperature is 10-40°C,so the laser conduct doesn't work normally until it reach the work temperature when taking it in from cold environment .
8. Do not turn on or off the system frequently, and avoid keep it working for long time.
9. Prevent from strong vibration or G-shock to the system.
10. Prevent other harmful objects from entering the system.
11. Keep at least 1 meter between the system and the objects in the lighting.

12. Connect the power cable after the system has been installed.
13. Before powering on the system, be sure the power cable is connected into the power socket well.
14. Turn off the system for 25 minutes after running constantly for three hours, ensure that the system is able to cool down in a suitable environment.
15. Turn on the computer after the laser display system is on, or you must power on the computer again.
16. When to be transported, use the original package to avoid Shaking.
17.  This sign indicates separate collection for electronics and electrical equipment.

## Inspection information

In order to use the product securely and properly, please read the manual before using and follow the instructions strictly to prevent personal safety trouble and product damage caused by misuse.

Take care of the product, check the possibility of the product damage caused by transportation and check all the machine and listed accessories are present upon receipt of the product

- 1 x LASER display system
- 1 x User manual
- 1 x Power cable

## Installation

1. Be sure that there is no flammable or explosive subjects nearby.  
The least clear proximity from the system should be 1.5 meters. At the same time, keep more than half a meter between the wall and LASER display system.

## Maintenance

Clean the lens regularly. Do not use a wet cloth or chemicals; use a damp cloth. The maintenance period depends of the usage frequency and surrounding conditions of the LASER display system. It recommended that the system should be cleaned every 15 days.

## Warning

Power off any related system before maintenance.

## Declare

The end-user of this product should abide by the above instructions and warnings. Performing actions which was advised not to do so as stated by this manual may void the warranty of this laser display system.

All products made from Big Dipper Laser Company have anti - fake identification. please verify the anti-counterfeit label at the bottom of the case to ensure the interests of consumers.

**The power of interpretation to the matters mentioned in this manual belongs to Big Dipper.**

12	Z axis rotation	0-180	Manual rotation
		181-217	Auto clockwise rotation
		218-255	Auto anti-clockwise rotation
13	Display mode	0-63	Normal display
		64-127	Dot-line display
		128-191	Subsection display
		192-255	Dot display
14	Color	0-31	Red Green Blue Purple
		32-63	Red
		64-95	Green
		96-127	Blue
		128-159	Purple & Blue
		160-191	Red & Green
		192-223	Red & Green & Blue
		224-255	Green & Blue & Purple
15	Reset	0-199	Normal Operation
		200-255	Reset

### Remark

On the DMX 512 mode, the LASER display system will shut off if the DMX 512 signal intermit.

### ADDRESS SETTING:

DMX address setup

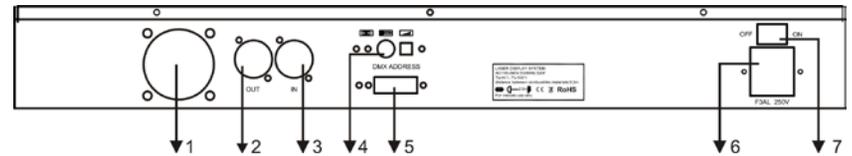
1. When the 10<sup>th</sup> code is ON,
  - a. and the 1<sup>st</sup> code is OFF-----It is sound control mode (host LASER)
  - b. and the 1<sup>st</sup> code is ON-----It is AUTO play mode (host LASER)
  - c. and the 2<sup>nd</sup> code is ON----- It is (Slave LASER)

Remark: When in Master-slave mode , either can be chosen for the Host. In asynchronous situation the slave will run after the Host automatically to reach synchrony .

2. When the 10<sup>th</sup> code is OFF: It is DMX control.

2. Be sure the power socket output voltage matches that off the LASER display system.
3. Ensure the fan and the exhaust is not blocked.
4. The LASER display system should be statically fixed.
5. It is essential to be earthed well for the sake of safety.

### Back panel



1. Fan
2. DMX512 signal output socket
3. DMX512 signal input socket
4. Mic: vice signal receiver
5. Binary address switch
6. Power socket
7. Power: ON/OFF

## Technical Parameters

Model		<b>B102RGB-4</b>
Parameters		
1	LASER diode	Red Green Blue
2	Power supply	AC220/110V, 50/60HZ
3	LASER power	R>120mW *2 G>40mW B>400mW
4	Scanner angle	± 22°
5	DMX Channels	15
6	Control mode	Sound/Auto-play/DMX /master slave
7	Effect	Four eyes asynchronous control, diagram flashing ,Horizontal, vertical, zoom, X Y Z □rotation, Dotted line show, color ,etc.
8	Dimensions	535*208*130MM
9	Net weight/ Gross weight	5.5/6.1KGS

## DMX channel setting

Channel	DMX512	Operating mode	
1	Control mode	0-63	Shut off the LASER diode
		64-127	Sound control mode
		128-191	Auto control mode
		192-255	Manual mode
2	Pattern A	0-255	A □ Pattern selection
3	Pattern B	0-255	B □ Pattern selection
4	Pattern C	0-255	C □ Pattern selection
5	Pattern D	0-255	D □ Pattern selection
6	Strobe	0-15	No strobe
		16-255	Strobe adjusted from slow to fast
7	Horizontal move	0-5	No move
		6-127	Manual
		128-167	Auto Left/Right
		168-200	Auto Right /Left
		201-255	Auto Bounce Right/Left
8	Vertical move	0-5	No move
		6-127	Manual
		128-167	Auto Up/Down
		168-200	Auto Down/Up
		201-255	Auto Bounce Up/Down
9	Zoom mode	0-5	No zoom
		6-127	Manual zooming
		128-167	Auto zooming out
		168-200	Auto zooming in
		201-255	Auto zooming
10	X axis rotation	0-180	Manual rotation
		181-255	Auto rotation from slow to fast
11	Y axis rotation	0-180	Manual rotation
		181-255	Auto rotation from slow to fast