



®

# LASER DISPLAY SYSTEM USER MANUAL

# SEVEN STARS<sup>®</sup>

# BEAM LASER USER MANUAL

**MODEL: M020RG/4**

## Notices

1. This is 3B 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. Do not exposure the system to wet environment.
6. Do not touch the system by wet hand and pull the power cable forcefully.
7. The work temperature is 10-40°C ,so the laser conduct doesn't work until it reach the work temperature when taking it in from cold environment .
8. Do not turn on or off the system frequently, avoid turning on it 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. Turn on the computer after the laser display system is on, or you must power on the computer again.

## ADDRESS: DMX address setup

1. When the 10th code is ON, the function of 1-9 codes is the following  
The 1st code is OFF-----Sound control mode  
The 1st code is ON-----AUTO play mode  
The 3th code is ON-----patterns and dots mode
2. When the 10th code is OFF---DMX control

## Maintenance

Clean the lens regularly. Do not use a wet cloth or chemicals; use a damp cloth. The maintenance period depends on the usage frequency and surrounding conditions of the LASER display system. It is 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 too 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.

## DMX channel setting

Channel NO.		DMX512 value	Content
1	Control mode	0-63	Shut off the LASER diode
		64-127	Sound mode
		128-191	Auto mode
		192-255	Manual mode
2	Pattern	0-39	Static pattern
		40-255	Dynamic pattern
3	Strobe	0-30	No strobe
		31-255	Strobe ,8 grade speed
4	Display	0-69	Normal display
		70-255	Dot and line display
5	Horizontal move	0-160	Manual move
		161-220	Unilateralism move
		221-255	Automatic move around
6	Vertical move	0-160	Manual move
		161-220	Unilateralism move
		221-255	Automatic fluctuate (from up to down and down to up)
7	Zoom	0-2	No zoom
		3-90	Manual zoom
		91-146	Automatic zoom out
		147-200	Automatic zoom in
		201-255	Automatic zoom
8	Color	0-99	Red and Green
		100-199	Red
		200-255	Green
9	Reset	0-255	The channel value is 200 or bigger than 200, then the system reset.
10	Y-axis rotation	0-150	Manual rotation
		151-255	Auto rotation
11	X-axis rotation	0-150	Manual rotation
		151-255	Auto rotation
12	Z-axis rotation	0-180	Manual rotation
		181-255	Auto rotation

14. Before powering on the system, be sure the power cable is connected into the power socket well.

15. 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.

16. When to be transported, use the original package to avoid damage.



17. This sign indicates separate collection for electronics and electrical equipment.

## Inspection

Check that the following components are present within the package when receiving system - from the list below:

1 x LASER display system                      1 x User manual

1 x Power cable

1 x DMX cable (option)

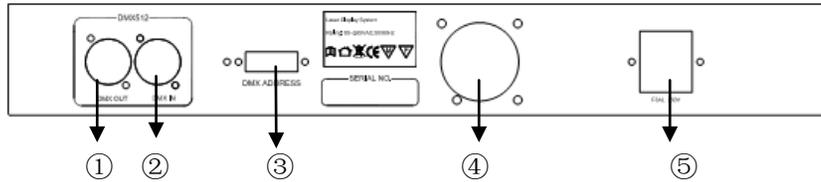
## Installation

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.

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



## Key-press function instruction

- ① **DMX OUT:** DMX512 signal output
- ② **DMX IN:** DMX512 signal input
- ③ **DMX ADDRESS:** Binary address switch
- ④ **Fan**
- ⑤ **F3AL 250V:** Input power with internal fuse (3A)

## Technical parameters

Model		M020RG/4
Parameter		
1	LASER diode	Red/Green
2	Power supply	100-240VAC, 50/60HZ
3	LASER power	R:650nm 120-150mW G:532nm 40-50mW
4	Scanner angle	±18°
5	Control mode	Sound/auto-play/single pattern by DMX
6	Peculiarity	Saving static and dynamic patterns. Displaying two effects (one is fast, another is slow). Can be changed by DMX, and easy to operate.
7	Effect	Displaying more than 50 light beams and patterns, displaying laser patterns specified by international laser display association, such as diffusing laser network. Slowly rotating color fan, time and space tunnel and fairy flowers. (Can be programmed with customers)
8	Dimensions	432.4 × 202.4 × 117mm
9	Net weight/ Gross weight	5.3/6.0KG

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