LASER DISPLAY SYSTEM

USER MANUAL

SEVEN STARS

BIG DIPPER LASER SCIENCE & TECHNOLOGY CO., LTD
REV: 1.01

Please read carefully before installing or operating

ANIMATION LASER USER MANUAL

Model：M150G

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℃,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.

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（optional）

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 15days.

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.

9	Rotation	0	No rotate
		1–180	Manual Rotate
		181–217	Clockwise rotate（automatic）
		218–255	Anti–clockwise rotate（automatic）
10	Display mode	0–69	Normal display
		70–139	Dot and line display
		140–209	Subsection display
		210–255	Dot Display
11	Wave	0–10	No wave
		11–70	Wave frequency from low to high in horizontal direction
		71–130	Frequency and fixed extent from low to high in horizontal direction
		131–190	Wave frequency from low to high in vertical direction
		191–255	Frequency and fixed extent from low to high in vertical direction
12	Gradually draw	0–1	No gradually draw
		2–149	Manual gradually draw
		150–255	Gradually draw circularly with10 grade speed

Remark；   The effect from channel 3 to channel 12 as described can take effect only under the conditions that the graphics in the channel 2 and the DMX channel from 0 to 99.

Remark

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

ADDRESS: DMX address setup

1. When the 10th code is ON, the function of 1–9 codes is the

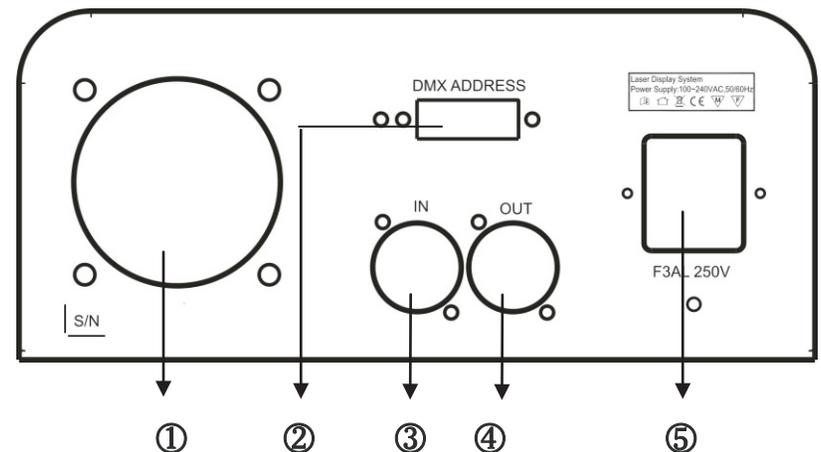following

The 1st code is off——sound control mode (host laser)

The 1st code is on——Auto play mode（host laser）

The 1st and 3rd code is on------automatic animation (host Laser)

2. When the 10th code is off; 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

Key–press function instruction

① **fan** Binary address switch

② Binary address switch: control the patterns change

③ **IN**: DMX512 signal input

④ **OUT**: DMX512 signal output

⑤ **F3AL 250V**: Input power with internal fuse (3A).

Technical Parameters

	Model / Parameters	M150G
1	LASER diode	Green
2	Power supply	100-240VAC, 50/60Hz
3	LASER power	G>100mW, 532nm
4	Scanner angle	+/－30
5	Control mode	Sound/auto-play/single pattern by DMX control.
6	Peculiarity	Running under the mode of DMX, Audio and AUTO.
7	Effect	Capable show animation 、 patterns by the following motion: blanking, zoom (horizontal, vertical or graphic's movement along the two direction by in phase or asynchronous), offset, rotate, wave, dot-line mode, strobe.
8	Dimensions	236*218*137.3 mm
9	Net weight/ Gross weight	3.0/3.2kg

DMX channel setting

Channel No.		DMX512 value	Content
1	Control mode	0-51	Shut off the LASER diode
		52-103	Sound control mode
		104-155	AUTO mode
		156-210	Auto Animation Mode
		211-255	Manual mode
2	Pattern	0-99	Static pattern
		100-101	Letters
		102-103	Animal patterns
		104-105	Guitar animation
		106-255	Dynamic patterns
3	Strobe	0-30	No strobe
		31-255	Strobe
4	Horizontal move	0-167	Manual move
		168-188	Automatic move circularly from right to left
		189-209	Automatic move circularly from left to right
		210-255	Automatic move around circularly
5	Vertical move	0-167	Manual move
		168-188	Automatic move circularly from down to up
		189-209	Automatic move circularly from up to down
		210-255	Automatic fluctuate circularly (from up to down and down to up)
6	Zoom	0-10	Original size
		11-104	Manual zoom
		105-154	Automatic zoom out circularly
		155-204	Automatic zoom in circularly
		205-255	Automatic zoom circularly
7	Horizontal stretch	0	No stretch
		1-150	Manual stretch
		151-255	Automatic stretch
8	Vertical stretch	0	No stretch
		1-150	Manual stretch
		151-255	Automatic stretch