BEAM LASER USER MANUAL

Model:F01(RGY)、F02(RGY)、K800

Please read this manual carefully before operating the LASER display system. **www.bigdipper-laser.com**

Notices

1. Do not self disassemble or repair the system unless qualified in the relevant field of electronics. When there is a problem, please enquire or contact a qualified electrician, or with your local dealer.

2. Installation should be made by professional technician.

3. Do not exposure the system to wet and a dirty dust-laden environment.

4. Do not touch the system by wet hand and forcefully pull the power cable;

5. Do not turn the system on and off frequently, avoid to turn on it for a long time;

6. Prevent the subjection of strong vibration or G-shock to the system.

7. Prevent foreign subjects from entering the system.

8. Allow at least 1 meter of clear proximity from the system when installed.

9. Connect the power cable only when the system has

been installed.

10. Before connecting or disconnecting the power, adjust the luminance of the LASER diode to avoid any damage to it.

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

12. Turn off the system for 25 minutes after running continuously for three hours; ensure the system is able to cool down in a suitable environment.

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

Inspection

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

1 x LASER display system   1 x User manual

1 x Power cable   1 x DMX cable

Installation

1. Be sure that there is no flammable or explosive subjects nearby. The least clear proximity from the

#				
8	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)		
9	Dimensions (mm)	285*160*230	265*125*192	295*125*205
10	Net weight/Gross weight(KG)	3.8/4.8	3.2/4.0	3.4/3.9

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 is recommended that the system should be cleaned every 15 days.

Warning

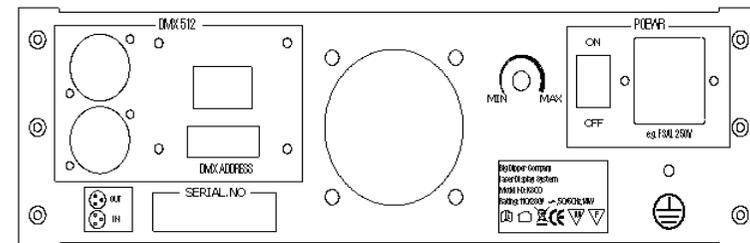Power off any related system before maintenance.

Disclaimer

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.

The right for explanation involved items in this manual is belongs to Big Dipper Laser Science & Technology Co., Ltd.

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

① DMX512 IN: DMX512 signal input.

② DMX512 OUT: DMX512 signal output.

③ DMX ADDRESS: Binary address switch.

④ MIN、MAX: Sound sensitivity potentiometer.

⑤ ON、OFF: Turns the system on/of.

⑥ e. g. F3AL: Input power with internal fuse (3A).

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)

2.When the 10th code is off-----DMX control

Remark

On the DMX 512 mode, the LASER display system

will shut off if the DMX 512 signal intermit.

Technical parameters

Model / Parameters		F02(RGY)	F02(RGY)	K800
1	LASER diode	Red/Green		
2	Power supply	AC220/110V, 50/60HZ		
3	LASER power	532nm 50mW 650nm 300wW	532nm 30mW 650nm 150wW	532nm 30mW 650nm 150mW
4	Scanner angle	+/－18°		
5	Channel	DMX 9 channels		

The detail of channel

Channel No.		DMX512 value	Content
1	Control mode	0-69	Shut off the LASER diode
		70-139	Auto mode (music active)
		140-209	Auto mode (auto active)
		210-255	Manual mode
2	Pattern	0-33	Static pattern
		34-255	Dynamic pattern
3	Strobe	0-255	8 grade speed (0~255)/30=(0~8)
4	Dot and line	0-69	Normal display
		70-139	Dot and line display
		140-209	Subsection display
		210-255	Dot display

5	Horizontal move	1-160	Manual move
		161-190	Automatic loop (from left to right)
		191-220	Automatic loop (from right to left)
		221-255	Automatic loop (from right to left and right to left)
6	Vertical move	1-160	Manual move
		161-190	Automatic loop (from down to up)
		191-220	Automatic loop (from up to down)
		221-255	Automatic loop (from up to down and down to up)
7	Zoom	0-2	Original size
		3-92	Manual zoom
		93-146	Automatic loop (from small to big)
		147-200	Automatic loop (from big to small)
		201-255	Automatic loop (from big to small and small to big)
8	Color	0～255	F01(RGY):Yellow-Red-Green-Orange-Sub-section(YRGO)- color counterchnge(YRGO)-Color counterchange by music. F02(RGY):Yellow-Red-Green-Subsection(YRG)-Color counterchange(YRG)-Color counterchange by music. K800:Red-Green-Red Green-Color counterchange by music.
9	Reset	0-255	The channel value is 200 or bigger than 200, then the system reset.
6	Control mode		Sound/Auto-play/single pattern by DMX
7	Peculiarity		**F01（RGY）:** Red, Green, Yellow and Orange can be chosen freely. Saving static and dynamic patterns.Displaying two effects (one is fast, another is slow). Can be changed by DMX, easy to operate. F02(RGY): Red, Green and Yellow can be chosen freely. Saving static and dynamic patterns. Displaying two effects (one is fast, another is slow). Can be changed by DMX, easy to operate. K800: Saving static and dynamic patterns.Displaying two effects.Can be changed by DMX,easy to operate.