light

BIG

DESIGN BY GERMANY

USER MANUAL

MODEL: BE-CW200

G V C LASER

Service and repair

The Laser Show equipment has no major serviceable parts. Repair of electronic- components (transistors, IC's) or changing other parts are not allowed by untrained persons. If there is a problem with the Laser Show equipment, your local service engineer will help you with repair or replacement. We recommend shipping the Laser Show equipment to the manufacturer for reparation.

Attachments:

1. Laser Light:	*	1PCS
2. Power Cable:		1PCS
3. User Guide:		1PCS

WARNINGS

- Visible and invisible laser-light, direct beam can damage the human eye and the eyes of animals. Do not look at any Laser light directly.
- Do not touch the laser aperture with the hand. When cleaning the laser aperture, please use a soft cloth with alcohol or camera lens paper.
- Do not take apart or modify the equipment. Fire or electrical shock may result.
- In the unlikely event that you hear unusual noise, see smoke, feel excessive heat or smell anything unusual, immediately unplug the power source and contact your retailer. Continued use may result in fires or electrical shock.
- Do not use flammable sprays near this equipment. Also do not spill water, liquids, or flammable liquids on the equipment. If fluids enter this equipment and contact the electrical parts, fires or electrical shock may result. If anything enters the equipment, immediately unplug the power supply and contact your retailer.
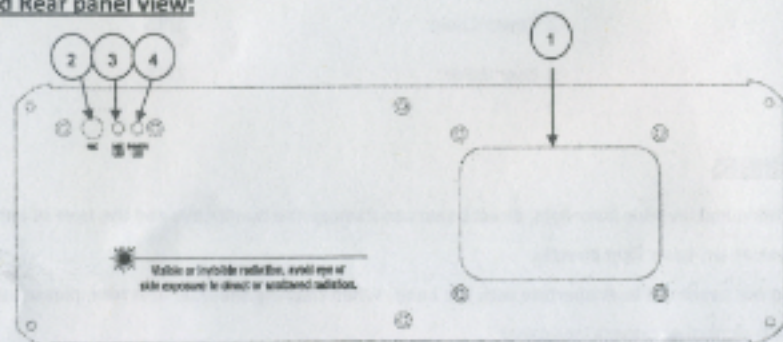
Installation

1. Carefully inspect your Laser Show equipment after you unpack it. If any damage is evident, such as dents or scratches on the covers or broken knobs, etc., immediately notify your carrier and your local sales distributor.
2. Hang up the equipment in a safe place. Ensure there are no barriers in front of the laser aperture.
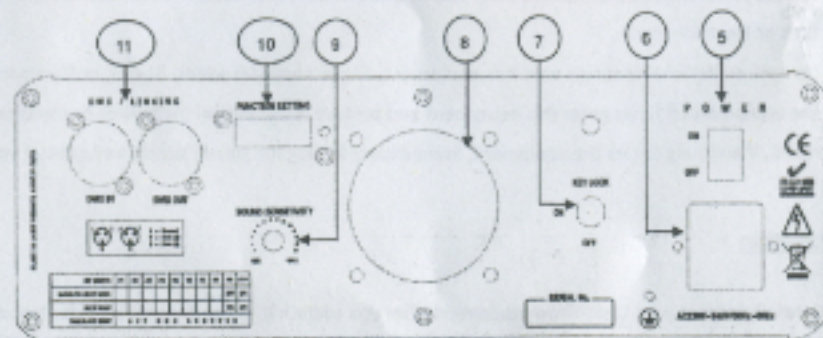
Features of the product:

1. Laser power: 50mW green laser @ 532nm, 150mW violet laser @ 405nm

2. Scanner system: Micro stepper motor

3. Working Modes: Sound Active, Auto run, DMX512 (12 CH), Master/slave mode.

4. Interface: 3 pins XLR jack for DMX or Maser-Slave linking

5. Input power: AC 110~220V, 50/60Hz. Rated power: 30W.

6. Packing Size: L*W*H=390*290*190mm; Weight: 3.5KG

Front and Rear panel view:

1. Laser Aperture
2. Sound active microphone
3. Sound active indicator: Blue
4. Power indicator: Red

5. ON/OFF switch   6. Power Jack   7. Key lock   8. Cooling Fan

9. Sound sensitivity knob   10. Dipswitches: Function Setting   11. DMX or linking jack

Function and Setting

DIP SWITCH	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10
SOUND-TO-LIGHT MODE									OFF	ON
AUTO MODE									ON	ON
DMX/SLAVE MODE	S	E	T	D	M	X	A	D	D R E	S S

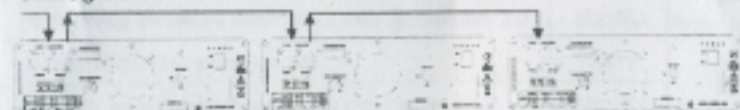As the above chart, DIP switch setting reference as follows:

Stand alone

(1). Sound active: #10 ON

(2). Auto run: #9 and #10 ON

(3). DMX and DMX Slave & Master: #1 ON

(4).Master and slave units all put #1 ON, only valid under DMX mode.

Universal DMX Operation (DMX mode)

This mode allows you to use universal DMX-512 console to operate.

1. Install the units in a suitable position.

2. Use standard XLR cable to connect your units together via the XLR connector on the rear of the units. For longer cable we suggest a terminator at the last fixture.

3. Assign a DMX address to each the unit using dipswitches.

4. Turn on all units. Use DMX console to control your units.

DMX Signal

Instruction for DMX channels

CH1	Mode select	0~63	Sound active mode (use CH2 to turn laser on)
		64~127	Auto mode (user CH2 to turn laser on)
		128~190	Static patterns
		191~255	Dynamic Patterns
CH2	LASER ON/OFF (valid when CH1 on 0~127)	0~127	LASER OFF
		128~255	LASER ON

		0~5	LASER OFF	
CH2	Color select (valid when CH1 on 128~255)	6~15	Green	
		16~25	Violet	
		26~35	Cyan	
		36~105	Green/Violet/Cyan change by turns (slow to fast); (shows only green under CH1 on 128~190)	
		106~175	Green+violet+cyan all colors counter-clockwise flowing (slow to fast); (shows GVC under CH1 on 128~190)	
		176~245	Green+violet+cyan all colors clockwise flowing (slow to fast); (shows only violet under CH1 on 128~190)	
		246~255	Original color	
CH3	Pattern select	0~255	Selecting patterns	
CH4	Y axis moving	0~191	Manual choose Y position	
		192~255	Auto up and down moving, slow to fast (valid when CH1 on 191~255)	
CH5	X axis moving	0~191	Manual choose X position	
		192~255	Auto right and left moving, slow to fast (valid when CH1 on 191~255)	
CH6	X axis rolling	0~127	Manual rolling	
		128~255	Auto rolling, slow to fast (valid when CH1 on 191~255)	
CH7	Y axis rolling	0~127	Manual rolling	
		128~255	Auto rolling, slow to fast (valid when CH1 on 191~255)	
CH8	Z Rotation	0~127	Manual rotation	
		128~191	Auto clockwise rotation, slow to fast	valid when CH1 on 191~255
		192~255	Auto counter-clockwise rotation, slow to fast	
CH9	Zooming	0~85	Auto zooming (+), slow to fast	valid when CH1 on 191~255
		86~170	Auto zooming (-), slow to fast	
		171~255	Manual zooming (+/-)	
CH10	Pattern Size	0~255	0 is Moderate, 1 is smallest, 255 is biggest	
CH11	Display dot	0~255	0 is original pattern, 1 is display dot, 255 is best brightness	
CH12	Drawing	0~255	Auto drawing, slow to fast (valid when CH1 on 191~255)	

TROUBLE SHOOTING

1. If the power supply indicator is off and the laser doesn't work, please check the power supply and the input voltage.

2. In Stand-Alone operation, if the power supply indicator is ON and sound active indicator is OFF, but the laser doesn't work.

   A. Because sound is too small and cannot activate laser running, please increase the music volume or increase audio sensitivity on rear panel.

   B. Please check if unit has been set up in slave mode, or DMX mode.

3. In Master-Slave operation, slave units don't function, please check as below.

   A. Make sure there's only one master in the chain, and the others are set in slave mode.

   B. Make sure to control the units without DMX controller.

   C. Make sure to use a good quality power cable and XLR connector.

4. In DMX mode operation, the laser is OFF and the DMX signal indicator is unlighted, please check as below

   A. Make sure DIP switch #1 is ON.

   B. Make sure to have a good XLR connection.

5. In DMX operation, the unit can't be controlled by the DMX console, but the DMX signal indicator is flashing, please make sure the DMX console and unit have the same channel.

6. If the output beam direction above is unusual, please restart the unit.

7. If the unit is fail, please turn off the unit, and then turn on again after 5 minutes.

After trying the above solution you still cannot sort out the problem, please contact your dealer or our company for service.