# EVENT LIGHTING

# **DGS Laser**

### **USER MANUAL**



### For safety, please read this user manual carefully before initial use.

Event Lighting reserves the right to revise the manual at any time. Information and specifications within this manual are subject to change without notice. Event Lighting assumes no liability or responsibility for any errors or omissions. Please consult Event Lighting for any clarification or information regarding this item.

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# **CONTENTS**

Safety Instructions

**Product Installation** 

Rear Panel

**Control Board Operation** 

- Standalone Mode
- DMX Modes

**DMX Values** 

IR Remote control

Warranty

Laser Emission Data

**Specifications** 

# **Safety Instructions**

#### **WARNING**

- Do not open this device, there is no user-serviceable parts inside. Risk of electric shock.
- Do not look at the light source when the device is on.
- CAUTION: This unit's housing may be hot during and after operation.
- Install this device in a location with adequate ventilation, at least 20 inch (50 cm) from adjacent surfaces.
- Do not leave any flammable material within 50 cm of this unit while operating or connected to power.
- Use a safety chain when mounting this device overhead.
- Do not operate this device outdoors or in any location where dust, excessive heat, water, or humidity may affect it.
- Do not operate this device if the housing, lenses, or cables appear damaged.
- Do not connect this device to a dimmer or rheostat.
- ONLY connect this device to a grounded and protected circuit.
- ONLY use the hanging bracket to carry this device.
- In case of a serious operating problem, stop using immediately.
- The maximum ambient temperature is 104° F (40° C). Do not operate this device at higher temperatures.
- Do not point this laser toward people or crowds.
- Do not point this laser toward any area where you or the operator do not know where the beams are being directed.
- Use aperture cover whenever not in use.
- Use the key to lock the laser to avoid unauthorised use.
- · Avoid direct eye contact with laser light. Never intentionally expose your eyes or others to direct laser light.
- . This laser product can potentially cause instant eye injury or blindness if laser light directly strikes the eyes.

### **Power Input**

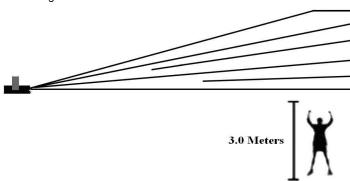
This device has an auto-switching power supply work with input voltage range of 100~240 VAC, 50/60 Hz.

# **Product Installation**

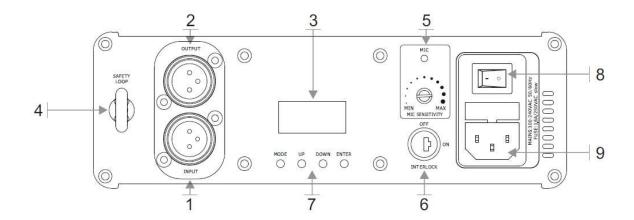
This device can be mounted in many orientations provided each individual device is secured by the use of correct mounting bracket.

This device should be directed above the heads of people and do not direct it toward the line of sight of people Refer to the diagram below

Use a safety chain when mounting this device overhead.



# **Rear Panel**

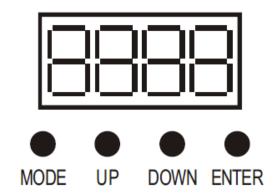


1	DMX input	3PIN Male XLR port, using for DMX	
2	DMX output	3PIN Female XLR port, using for DMX	
3	Digital display	Display mode or address code	
4	Safety Loop	Attach the safety cable	
5	Mic Sensitivity Knob	Turn the knob (potentiometer) until the laser works in sync with the music.	
	Key Switch	To turn the laser effect (laser diode) ON/OFF. Be sure that only authorized	
6		operator hold the key	
7	Buttons	Choose Work Mode	
8	Switch	Switch on and off the power	
9	Mains input	With socket and integrated fuse holder	

# **CONTROL BOARD OPERATION**

Press the "MODE" button to enter the mode select state cycles display panel display "AorS", "Soud", "AUTO", "d\*\*\*", "SLAV", "OFF" six modes.

- . "d\*\*\*" mode, press "UP" or "DOWN" key to select the DMX address.
- . Press the "ENTER" button to save the current operating mode or address code.



### **OPERATING MODE DESCRIPTION**

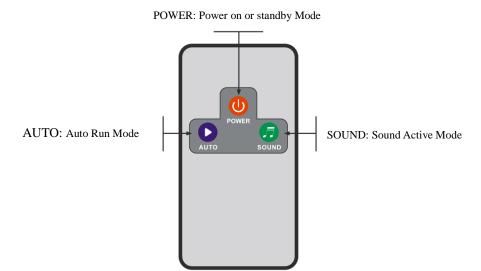
DISPLAY	MODE	DESCRIPTION		
Aors / As_1 - As_6	Intelligent Mode	Auto switch between "Auto Run Mode" and "Sound Active Mode", depends on if the music exists or not.		
Soud / Sd_1 - Sd_6	Sound Active Mode	Sound Active Mode		
Auto / At_1 - At_6	Auto Run Mode	Auto Run Mode		
d***	DMX512 Control Mode	Press "UP" or "DOWN" to Set the DMX address		
SLAV	Slave Mode	Slave mode		
OFF	Standby Mode	Press "MODE" button or use IR controllor to select another operating mode		

# DMX CHANNELS DESCRIPTION:

		_	
		0	Blackout
		1-49	Manual mode, out of bounds through the mode;
			when the channel value is less than 5, the pattern
			size will shrink.
	Work Mode Selection	50 - 99	Manual mode, out of bounds for the exhumation
			mode, when the channel value is less than 55, the
			pattern size will shrink.
CH1 / 12		100-149	Manual and sound mode, out of bounds across the
			mode, when the channel value is less than 105, the
			pattern size will shrink.
			·
		150-199	Manual and sound mode, out of bounds for the
			exhumation mode, when the channel value is less
			than 155, the pattern size will shrink.
		200 -229	Auto mode
		230 - 255	Sound Mode
CH2 / 13	Dattara Calastian	0.055	Pattern selection, the value of a pattern 2, a total of
CH2 / 13	Pattern Selection	0-255	127 pattern optional.
	Zoom	0-63	Static adjust the size
CH3 / 14		64-255	A dynamic size effect, every 32 value period, each to
			different sizes, in the same segment, the larger the
			value, the faster the operation.
	Rotation	0-63	Static rotation adjustment
CH4 / 15		64-255	
			same segment, the larger the value the faster action.
	X-axis rotation	0-63	The static horizontal movement of the adjustment.
		64-255	The dynamic effect of the horizontal movement, each
CH5 / 16			32 value period, each for different horizontal
			movement, in the same period, the value the greater
			the faster action.
	V ovia ratation	0-63	The static vertical movement of the adjustment.
CLIC / 47		64-255	
UH6 / 1/	r-axis rotation		period, each for a different vertical movement effect,
			faster action.
			Static level of zoom adjustment
CH4 / 15	Rotation	0-63 64-255 0-63 64-255	different sizes, in the same segment, the larger the value, the faster the operation.  Static rotation adjustment  The dynamic effect of the rotation, each 32 value period, each for a different effect of the rotation, in the same segment, the larger the value the faster action.  The static horizontal movement of the adjustment.  The dynamic effect of the horizontal movement, each 32 value period, each for different horizontal movement, in the same period, the value the greater the faster action.  The static vertical movement of the adjustment.  The dynamic vertical movement effect, each 32 value period, each for a different vertical movement effect, in the same period within the larger the value the faster action.

			<del> </del>
		64-255	Dynamic level of zoom effect, every 32 values for some of each for different levels of zoom effect, in the same paragraph, the greater the value the faster the action.
		0-63	The static vertical scaling adjustment.
CH8 / 19	Scale	64-255	Dynamic vertical zoom effect, every 32 values for some, each for different vertical zoom effect, in the same paragraph, the greater the value the faster the action.
CH9 / 20	Regulation	0-63	Regulation the static of getting painted.
		64-255	A dynamic crescendo painted effect, the greater the value the faster the action.
CH10 / 21	Mode definition	0-127	The node definition, the larger the value, the sharper the node.
GITIO721		128-255	Only display node (dot state), the larger the value, the sharper the node.
	Zoom	0-127	Static color choices, the value of a 16 color schemes.
		128-191	The color effect of the whole pattern of the same color, the larger the value, discoloration, the sooner.
CH11 / 22		192-255	Pattern primary color-based color effect, the larger the value, discoloration, the sooner. When CH22 value of 255 or 191 when the node will be the second pattern is the center point of the first pattern play more of the same pattern of the array

### IR REMOTE CONTROL DESCRIPTION:



### WARRANTY

Please refer to your local dealer or please contact Event Lighting.

### LASER EMISSION DATA

\* As measured under IEC measurement conditions for classification.

Laser Classification: Class 3B

Green Laser Medium DPSS: Nd:YVO4+KTP,532nm

Red Laser Medium LD: GaAlAs 650nm,typical Blue Laser Medium LD: InGaN 450nm, typical

Beam Diameter: r <5mm at aperture Divergence(each beam): <12 mrad Divergence(total light): <90 degrees

Laser Power:200mW 650nm Red CW, 50mW 532nm Green CW, 150mW 450nm Blue CW

Transverse Beam Mode: TEM00

Scanning: ILDA 20 Kpps

## **SPECIFICTAIONS**

Mains Input:AC100~240V, 50/60Hz

Fuse:250V /1.6A Slow Blow (20mm Glass)

Total Power:25W

X/Y Axis Beam Angle:±20°

Laser Safety Standard: EN60825-1 2007

Condition Temperature:10~40°C

DMX Connections:3 pins XLR Male/Female

Net Weight: 1.35Kg

Measurement: 216mm x 160mm x 71mm