EVENT LIGHTING

TDM and DM 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.

www.event-lighting.com.au

V1.0

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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.

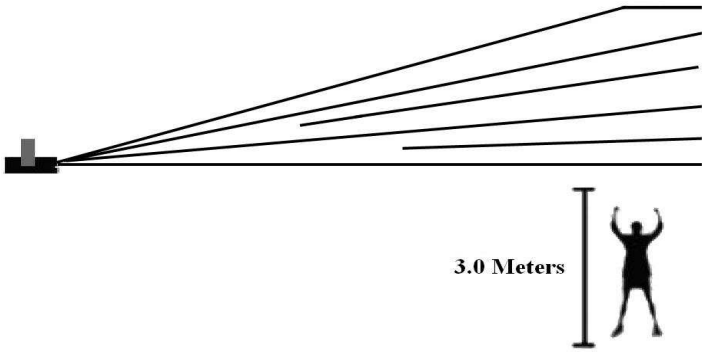
Product Installation

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

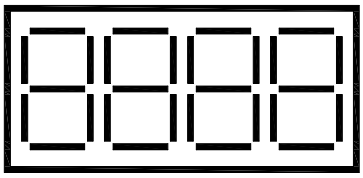
Refer to the diagram below

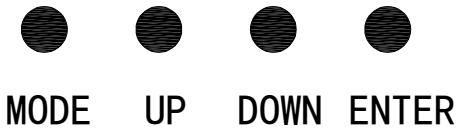
Use a safety chain when mounting this device overhead.



CONTROL BOARD OPERATION

- Press "MODE " button, you can select "Auto ", " Sound ", " d*** ", " SLAV ", or" tESt ", one of five kinds of mode.
- In the “d***” work mode，Press “UP” or “DOWN” to set DMX address.
- Press “ENTER” to save the current work mode or DMX address.





WORK MODE DESCRIPTION:
R/G/B MODEL

Display	Work Mode	Description
Auto	Auto Run Mode	Auto Run Mode
Soud	Sound Active Mode	Sound Active Mode
d***	DMX-512 Control Mode	Press “UP or “DOWN” to Set the DMX address
SLAV	Slave Mode	Slave Mode
tESt	Test Mode	Press “UP or “DOWN” to Select the single pattern

RGY MODEL

Display	Work Mode	Description
Auto	Auto Run Mode	Auto Run Mode
Soud	Sound Active Mode	Sound Active Mode
d***	DMX-512 Control Mode	Press “UP or “DOWN” to Set the DMX address
SLAV	Slave Mode	Slave Mode
tESt	Test Mode	Press “UP or “DOWN” to Select the single pattern
r/g/y/rgy	Set Color Mode	Press “UP or “DOWN” to Select the laser color

RBP MODEL

Display	Work Mode	Description
Auto	Auto Run Mode	Auto Run Mode
Soud	Sound Active Mode	Sound Active Mode
d***	DMX-512 Control Mode	Press “UP or “DOWN” to Set the DMX address
SLAV	Slave Mode	Slave Mode
tESt	Test Mode	Press “UP or “DOWN” to Select the single pattern
r/b/p/rbp	Set Color Mode	Press “UP or “DOWN” to Select the laser color

GBC MODEL

Display	Work Mode	Description
Auto	Auto Run Mode	Auto Run Mode
Soud	Sound Active Mode	Sound Active Mode
d***	DMX-512 Control Mode	Press “UP or “DOWN” to Set the DMX address
SLAV	Slave Mode	Slave Mode
tESt	Test Mode	Press “UP or “DOWN” to Select the single pattern
g/b/c/gbc	Set Color Mode	Press “UP or “DOWN” to Select the laser color

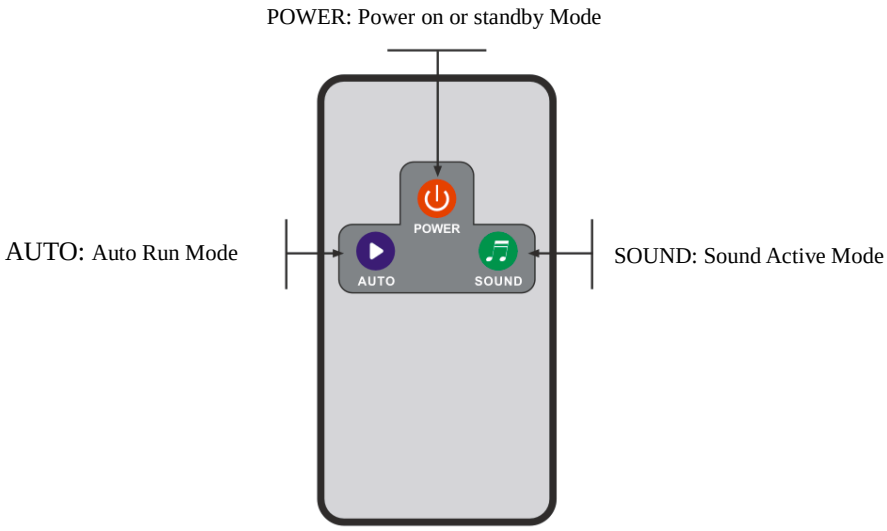
RGB MODEL

Display	Work Mode	Description
Auto	Auto Run Mode	Auto Run Mode
Soud	Sound Active Mode	Sound Active Mode
d***	DMX-512 Control Mode	Press “UP or “DOWN” to Set the DMX address
SLAV	Slave Mode	Slave Mode
tESt	Test Mode	Press “UP or “DOWN” to Select the single pattern
r/g/b/y/p/c/rgb	Set Color Mode	Press “UP or “DOWN” to Select the laser color

DMX CHANNELS DESCRIPTION:

CH1	Work Mode Selection	0-063	Blackout
		64-127	Auto mode
		128-191	Sound mode
		192-255	Manual mode
CH2	Pattern Selection（ Manual Mode）	0-255	Select the Pattern
CH3	Zoom（ Manual Mode）	0-127	Manually adjust the size
		128-255	Loop zoom in or out
CH4	X-axis rotation （ Manual Mode）	0-127	Manual rotation adjustment
		128-255	Set the speed of X-axis rotation
CH5	Y-axis rotation（ Manual Mode）	0-127	Manual rotation adjustment rotation
		128-255	Set the speed of Y-axis rotation
CH6	Z-axis rotation（ Manual Mode）	0-127	Manual rotation adjustment rotation
		128-255	Set the speed of Z-axis rotation
CH7	Horizontal Movement（ Manual Mode）	0-127	Manually adjust the position 128~255Set the speed of
		128-255	Set the speed of left and right loop movement
CH8	Vertically Movement（Manual Mode）	0-127	Manually adjust the position 128~255Set the speed of
		128-255	Set the speed of up and down loop movement
CH9	(R/G/B model)	NOT USED	
	(RGY model) Color Select （Manual Mode）	0-63	Own color
		64-127	Yellow
		128-191	Green
		192-255	Red
	(RBP model) Color Select （Manual Mode）	0-63	Own color
		64-127	Pink
		128-191	Blue
		192-255	Red
	(GBC model) Color Select （Manual Mode）	0-63	Own color
		64-127	Cyan
		128-191	Green
		192-255	Blue
	(RGB model) Color Select （Manual Mode）	0-63	Own color
		64-95	Red
		96-127	Green
		128-159	Blue
		160-191	Yellow(Red&Green)
		192-223	Pink(Red&Blue)
		224-255	Cyan(Red&Blue)

IR REMOTE CONTROL DESCRIPTION:



WARRANTY

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

LASER EMISSION DATA

ALL

* As measured under IEC measurement conditions for classification.

Laser Classification： Class 3B

Beam Diameter：r <5mm at aperture

Diverg3ence(each beam)： <12 mrad

Divergence(total light) ： <90 degrees

Transverse Beam Mode： TEM00

Cooling ： Fan Cooling

DM450B

Blue Laser Medium LD： InGaN 450nm, typical

Laser Power:450mW 450nm Blue CW

DM100G

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

Laser Power: 100mW 532nm Green CW

DM400RGB

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

Red Laser Medium LD： GaAIAs 650nm,typical

Blue Laser Medium LD： InGaN 450nm, typical

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

DM200RGY

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

Red Laser Medium LD： GaAIAs 650nm,typical

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

DM300RBP

Red Laser Medium LD： GaAIAs 650nm,typical

Blue Laser Medium LD： InGaN 450nm, typical

Laser Power:150mW 650nm Red CW, 150mW 450nm Blue CW

TDM-RGB400

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

Red Laser Medium LD： GaAIAs 650nm,typical

Blue Laser Medium LD： InGaN 450nm, typical

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

SPECIFICTAIONS

ALL

Mains Input:AC100~240V, 50/60Hz
Total Power:14W
Laser Safety Standard:EN60825-1 2007
Condition Temperature:10~40℃
Measurement: 159mm x 90mm x 71mm

DM450B

Net Weight:0.84Kg

DM100G

Net Weight:0.85Kg

DM400RGB

Net Weight:0.91Kg

DM200RGY

Net Weight:0.85Kg

DM300RBP

Net Weight:0.85Kg

TDM400RGB

Net Weight:0.92Kg