EVENT LIGHTING lite

LM250

250W LED Spot Moving Head

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.

Version: 1.0

Safety Instructions

Warning

- Do not open this device, there are 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 500 mm (20 inches) from adjacent surfaces.
- Do not leave any flammable material within 500 mm (20 inches) of this unit while operating or connected to power.
- Use a safety wire 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 40° C (104° F). Do not operate this device at higher temperatures.

Power Input & Power Linking

This device has an auto-switching power supply work with input voltage range of 100~240 VAC, 50/60 Hz.
Link up to the maximum 8A. DO NOT exceed this.

Fuse Replacement

If the fine-wire fuse of the device fuses, only replace the fuse by a fuse of same type and rating. Before replacing the fuse, unplug mains lead.

Procedure:

Step 1: Unscrew the fuse holder on the rear panel with a fitting screwdriver from the housing (anticlockwise).
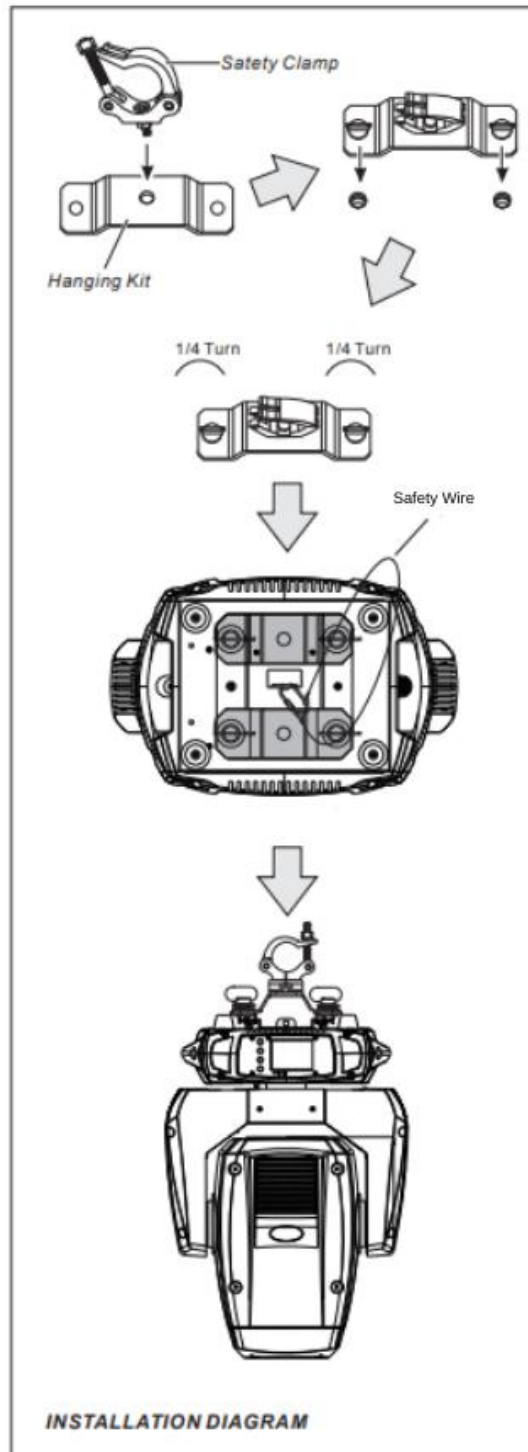Step 2: Remove the old fuse from the fuse holder.
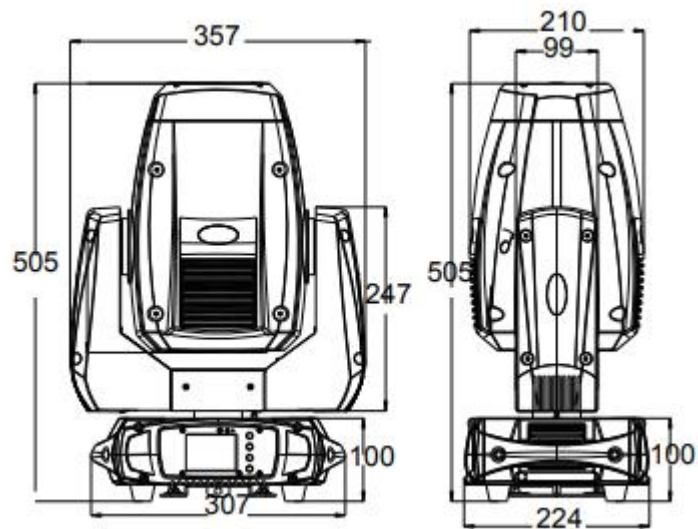Step 3: Install the new fuse in the fuse holder.
Step 4: Replace the fuse holder in the housing and fix and re-screw it so it is fixed in place (clockwise).

Product Installation

- This device can be mounted in various orientations provided each individual device is secured by the use of correct mounting bracket.
- Use a safety wire when mounting this device overhead.

INSTALLATION DIAGRAM

Dimensions

Lux Chart

Lux Chart @ 12°			
2.5m	5m	7.5m	10m
Ø0.53	Ø1.05	Ø1.58	Ø2.1
41,550	11,940	5,350	3,150

Lux Chart @ 36°			
2.5m	5m	7.5m	10m
Ø1.62	Ø3.25	Ø4.87	Ø6.5
5,230	1,450	850	400

Colour Wheel

🔴	Position 1	🟡	Position 4	CTB	Position 7
🔵	Position 2	🟣	Position 5	🌸	Position 8
🟢	Position 3	CTO	Position 6	🟠	Position 9

Static Gobo Wheel

	Position 1		Position 5		Position 9
	Position 2		Position 6		Position 10
	Position 3		Position 7		Position 11
	Position 4		Position 8		

Rotating Gobo Wheel

	Position 1		Position 3		Position 5
	Position 2		Position 4		Position 6

Menu Operation LCD

Menu – Either enters the unit from home page or Escapes back a level.
Up – Move selection up one item.
Down – Move selection down one item.
Enter – Selects or confirms any selection.

Menu

MENU			DESCRIPTION
Function Mode	DMX Address	A001~AXXX	DMX Address Setting
	Channel Mode	CH14	14 Channel Mode
		CH16	16 Channel Mode
		CH18	18 Channel Mode
	Auto Run	Internal Program1~8	Internal Program
		State: Master/Alone	Auto Run State
		Auto Run (On/Off)	Toggle Auto Run
	Music Control	Internal Program1~8	Internal Program
		State: Master/Alone	Sound Control State
		Music Run (On/Off)	Toggle Sound Control
Option	Reset Default	Yes/No	Reset to Default Setting
	Signal Set	DMX Wireless DMX Wireless TX Auto DMX	Wired DMX Wireless DMX Receiver Wireless DMX Transceiver Wireless first
	Pan / Tilt	Reverse Pan (On/Off) Reverse Tilt (On/Off) Select Pan 630°/540°/360° Select Tilt 270°/180°/90° Limit Mode OFF/CEN./R/L	Reverse Pan Reverse Tilt Pan Degree (540°) Tilt Degree (270°) Select Edge or Corner Range
	UI SET	Mic Sens. 0~99% Hold on no DMX(On/Off) Half Colour (On/Off) Fast Scan (On/Off) Flip Display (On/Off)	Microphone Sensitivity Setting Hold or no hold When no Signal Select half Colour Fast Scan Flip Display
Information	Temperature	XXX°C/℉	Current Temperature

	Software Version	V1.0~V9.9	Current Software Version
Manual Control	Reset	All Pan/Tilt Colour Gobo Others	Reset all Settings Reset Pan/tilt Settings Reset Colour Settings Reset Gobo Settings Reset Other Settings
	Channel	PAN=XXX……	Manual Control Channel
ADVANCED (Access Code 088)	Calibration	PAN=XXX……	Calibration

The default selection for each setting is highlighted.

Press the Up and Down buttons simultaneously for 3 seconds to reverse the display direction..

DMX Chart

- This fixture is controlled by the universal DMX512 protocol. The DMX address is the first channel used to receive instructions from the external controller. For independent control, each fixture must be assigned a unique address for each of its control channels. For Example: if a device has three channel modes: 16/14/18, if the unit is set to 16 channel mode, and there are several fixtures that need to be independently controlled, simply address the first fixture at 1, and second fixture at 17, third one at 33, etc.
- If multiple fixtures have the same DMX address, they will behave synchronically.
- Display will flash when no DMX signal is received.

Mode/Channel			Min DMX	Max DMX	Function
16 CH	**14 CH**	**18 CH**			
1	1	1	0	255	Pan
2		2	0	255	Pan - fine
3	2	3	0	255	Tilt
4		4	0	255	Tilt-fine
5	3	5	0	9	Colour Mode 1 - open / white
			10	19	Colour Mode 1 - Colour 1
			20	29	Colour Mode 1 - Colour 2
			30	39	Colour Mode 1 - Colour 3
			40	49	Colour Mode 1 - Colour 4
			50	59	Colour Mode 1 - Colour 5
			60	69	Colour Mode 1 - Colour 6
			70	79	Colour Mode 1 - Colour 7
			80	89	Colour Mode 1 - Colour 8
			90	127	Colour Mode 1 - Colour 9
			128	189	Forward rainbow, fast to slow
			190	193	Colour rotation stop
			195	255	Reverse rainbow effect, slow to fast
5	3	5	0	4	Colour Mode 2 - White Open

			5	9	Colour Mode 2 - White + Colour 1
			10	14	Colour Mode 2 - Colour 1
			15	19	Colour Mode 2 - Colour 1 + Colour 2
			20	24	Colour Mode 2 - Colour 2
			25	29	Colour Mode 2 - Colour 2 + Colour 3
			30	34	Colour Mode 2 - Colour 3
			35	39	Colour Mode 2 - Colour 3 + Colour 4
			40	44	Colour Mode 2 - Colour 4
			45	49	Colour Mode 2 - Colour 4 + Colour 5
			50	54	Colour Mode 2 - Colour 5
			55	59	Colour Mode 2 - Colour 5 + Colour 6
			60	64	Colour Mode 2 - Colour 6
			65	69	Colour Mode 2 - Colour 6 + Colour 7
			70	74	Colour Mode 2 - Colour 7
			75	79	Colour Mode 2 - Colour 7 + Colour 8
			80	84	Colour Mode 2 - Colour 8
			85	89	Colour Mode 2 - Colour 8 + Colour 9
			90	94	Colour Mode 2 - Colour 9
			95	127	Colour Mode 2 - Colour 9 + White
			128	189	Forward rainbow, fast to slow
			190	193	Colour rotation stop
			194	255	Reverse rainbow effect, slow to fast
6	4	6	0	9	Rotating Gobo - Open
			10	19	Rotating Gobo 1
			20	29	Rotating Gobo 2
			30	39	Rotating Gobo 3
			40	49	Rotating Gobo 4
			50	59	Rotating Gobo 5
			60	69	Rotating Gobo 6
			70	89	Rotating Gobo 1 shake, slow to fast
			90	109	Rotating Gobo 2 shake, slow to fast
			110	129	Rotating Gobo 3 shake, slow to fast
			130	149	Rotating Gobo 4 shake, slow to fast
			150	169	Rotating Gobo 5 shake, slow to fast
			170	189	Rotating Gobo 6 shake, slow to fast
			190	255	Rotating Gobo Forward wheel spin, slow to fast
7	5	7	0	127	Rotating Gobo - Indexing
			128	189	Rotating Gobo - Forward rotation, fast to slow
			190	193	Rotating Gobo - stop rotation
			194	255	Rotating Gobo - reverse rotation slow to fast
8	6	8	0	9	Static Gobo - Open
			10	19	Static Gobo 1
			20	29	Static Gobo 2
			30	39	Static Gobo 3
			40	49	Static Gobo 4
			50	59	Static Gobo 5
			60	69	Static Gobo 6
			70	79	Static Gobo 7
			80	89	Static Gobo 8
			90	99	Static Gobo 9

			100	109	Static Gobo 10
			110	119	Static Gobo 11
			120	129	Static Gobo 1, shake slow to fast
			130	139	Static Gobo 2, shake slow to fast
			140	149	Static Gobo 3, shake slow to fast
			150	159	Static Gobo 4, shake slow to fast
			160	169	Static Gobo 5, shake slow to fast
			170	179	Static Gobo 6, shake slow to fast
			180	189	Static Gobo 7, shake slow to fast
			190	199	Static Gobo 8, shake slow to fast
			200	209	Static Gobo 9, shake slow to fast
			210	219	Static Gobo 10, shake slow to fast
			220	229	Static Gobo 11, shake slow to fast
			230	255	Static Gobo 11, forward wheel spin slow to fast
9	7	9	0	31	Shutter- Closed
			32	63	Shutter - Open
			64	95	Strobe effect - slow to fast
			96	127	Shutter - Open
			128	159	Pulse Effect - slow to fast
			160	191	Shutter - Open
			192	223	Random strobe effect, slow to fast
			224	255	Shutter - Open
10	8	10	0	255	Dimmer 0 ~100
11	9	11	0	255	Focus near to far
12	10	12	0	255	Zoom near to far
13	11	13	0	5	Rotating Prism OFF
			6	127	Rotating Prism ON
			128	189	Rotating Prism, forward rotation, fast to slow
			190	193	Rotating Prism Stop
			194	255	Rotating Prism, reverse rotation, fast to slow
14	12	14	0	199	Frost OFF
			200	255	Frost ON
15	13	15	0	225	Pan / tilt speed, fast to slow
			226	235	Blackout during pan / tilt
			236	245	Blackout when colour or gobo changing
			246	255	TBD
16	14	16	0	19	TBD
			20	29	TBD
			30	39	TBD
			40	79	TBD
			80	84	Reset all
			85	87	Reset scan
			88	90	Reset colour
			91	93	Reset gobo
			94	96	TBD
			97	99	Reset other motor
			100	109	Internal Program 1
			110	119	Internal Program 2
			120	129	Internal Program 3
			130	139	Internal Program 4

			140	149	Internal Program 5
			150	159	Internal Program 6
			160	169	Internal Program 7
			170	179	Internal Program 8
			180	189	Internal Sound Program 1
			190	199	Internal Sound Program 2
			200	209	Internal Sound Program 3
			210	219	Internal Sound Program 4
			220	229	Internal Sound Program 5
			230	239	Internal Sound Program 6
			240	249	Internal Sound Program 7
			250	255	Internal Sound Program 8
		17	0	255	Colour speed, fast to slow
		18	0	255	Gobo speed, fast to slow

● Colour mode 1 applies when Half Colour is set to OFF, Colour mode 2 applies when Half Colour is set to ON.

Technical Specifications

Photometric

- Light Source: 250W LED 7,500K
- Beam Angle: 12° -36°
- Output: 31,600 lux @ 2.5 m @ 12°

Effects

- Prism: 3-facet
- Dimming: 0~100%, 8/16-bit
- Strobe: 1.2~25Hz
- Focus: 2.5~15m, linear via DMX
- Frost: Yes
- Iris: Yes

Movement

- 8/16 – bit, auto-reposition
- Pan: 360°/540°/630°
- Tilt: 90°/180°/270°
- Limit mode: Centre/Corner/Edge

Colour

- 1 colour wheel (7 Colours + Open)

Gobo

- Fixed: 1 x (11 + open) fixed gobo wheel
- Rotating: 1 x (6 + open) interchangeable (outside ø22.9mm, inside ø18mm).

Power

- Input Voltage: 90~260V AC, 50/60Hz
- Power Consumption: 320W
- Connection: PowerCon in/out

Control

- Protocol: DMX512
- Operation modes: DMX, manual, auto, sound active, master/slave
- DMX Channels: 14/16/18
- Interface: 3-pin XLR in/out
- Built-in Programming: Yes
- Sound Active: Yes
- Display: 4-button 2.4inch TFT LCD display control panel

Housing

- Materials: Metal & flame retardant ABS
- Finishing: Matte black
- IP rating: IP20
- Cooling: Fan
- Net Weight: 14 kg
- Rigging: 2pcs omega brackets with 1/4-turn quick locks
- Box Dimensions: 430 x 410 x 530 mm

Accessories

- Optional: Road case LM2CASEVL
- Wireless DMX: WDMXLM

Warranty

Please refer to your local dealer or contact Event Lighting Pty Ltd.