EVENT LIGHTING lite

LM75

75W 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.

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.

Power Input

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

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 it.

Product Installation

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

INSTALLATION DIAGRAM

Satety Clamp

Hanging Kit

1/4 Turn   1/4 Turn

Safety Cable
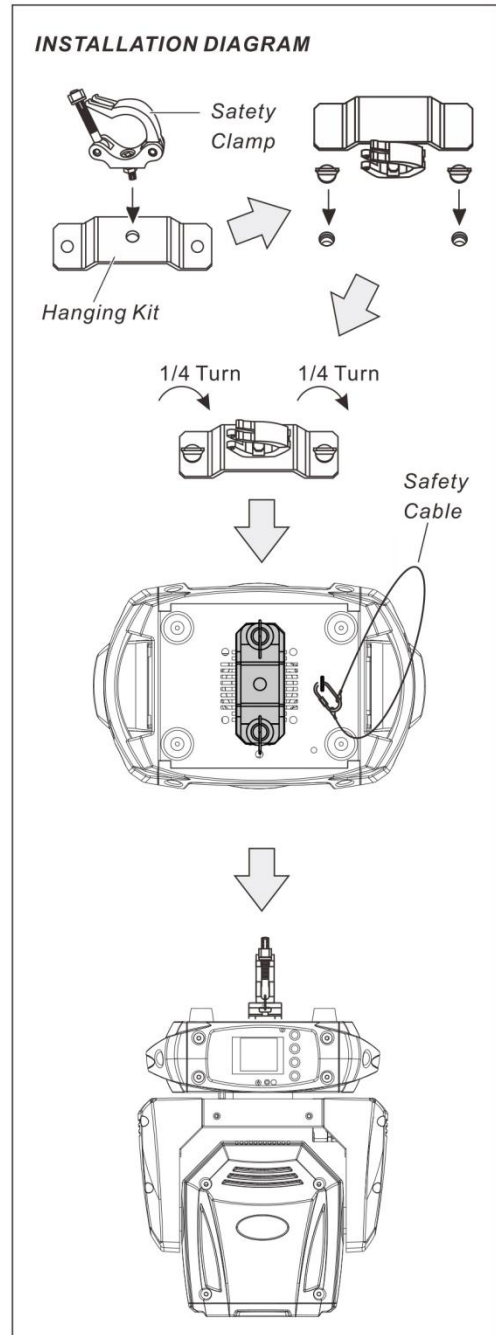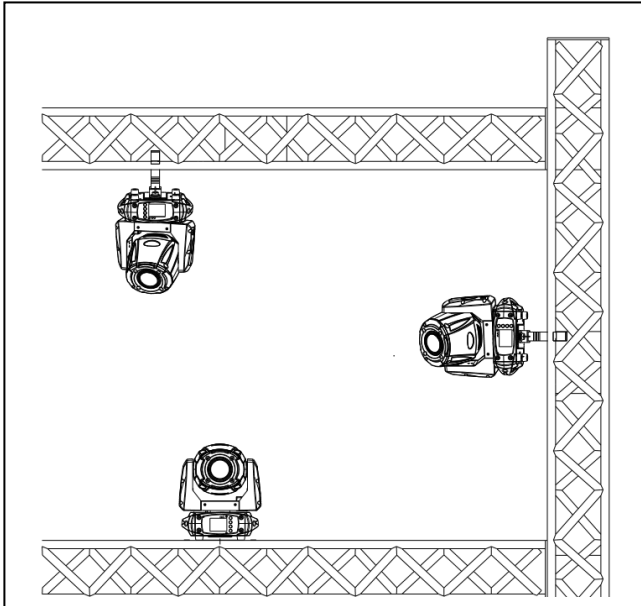
Dimensions
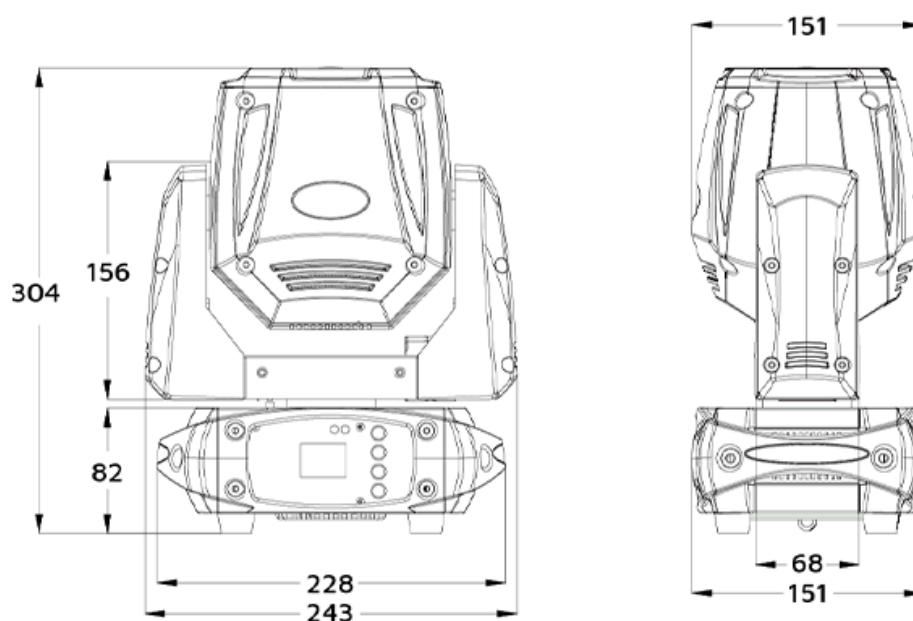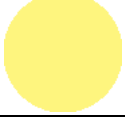
Lux Chart

Lux chart @ 12°			
2.5m	5m	7.5m	10m
Ø0.53	Ø1.05	Ø1.58	Ø2.10
10,210	2,810	1,430	880

Colour Wheel

		Open
		Red
		Blue
		Green
		Yellow
		Magenta
		Dark Blue
		Orange
		Orange-red

Gobo Wheel

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

Menu operation
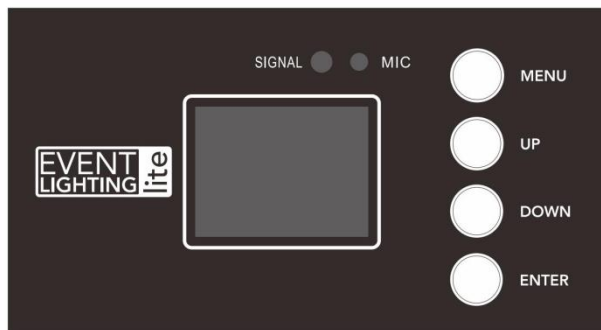
Menu – Move up a level.
Up – Move selection up one item.
Down – Move selection down one item.
Enter – Select / Move down a level.

Menu

MENU			DESCRIPTION
DMX Address	DMX Address	A001~AXXX	DMX Address Setting
Auto Run	Auto Run	Program 1-8 l Master/Alone	Auto Run State
	Music Run	Program 1-8 l Master/Alone	Music Control State
Reset	ALL	On/Off	Reset all motors
	Pan/Tilt	On/Off	Reset pan/tilt motor
	Colour	On/Off	Reset colour motor
	Gobo	On/Off	Reset gobo motor
	Other	On/Off	Reset other
Reverse Pan	On/Off		Reverse pan
Reverse Tilt	On/Off		Reverse tilt
Special	R Default	On/Off	Reset to default settings
	Cal	Code (Password: 088)	Calibration code
		Pan, Tilt, Colour, Gobo, Focus, Prism	Calibrate the selected channel
	Temp.	XXX °C/°F	Current temperature
	Manual Ctrl.	Pan = XXX…	Manual control
	Mic Sens.	0-99%	Microphone sensitivity
	Limit Mode	Limit Mode Off/Centre/Right/Left	Select Edge or Corner range
	Signal Set	DMX	Wired DMX input.
		Wireless DMX	Wireless DMX input to first fixture, wired DMX output from first fixture.
		Wireless TX	Wired DMX input to first fixture, wireless DMX output from first fixture.
		Auto DMX	Automatic switching between wireless and wired DMX, wireless prioritised.
DMX Mode	CH13 Mode		13 channel mode
	CH11 Mode		11 channel mode
Scan Degree	Pan Degree	Pan 630°	Select Pan degree (default 540°)
		Pan 540°	
		Pan 360°	
	Tilt Degree	Tilt 270°	Select Tilt degree (default 270°)
		Tilt 180°	
		Tilt 90°	
Version	V1.0 - vX.X	V2.1	Software version

DMX Chart

Channel Mode		Min	Max	Name	Function
Standard	Basic	DMX	DMX		
1	1	0	255	Pan	Pan movement
2		0	255	Pan-fine	Fine control of pan movement
3	2	0	255	Tilt	Tilt movement
4		0	255	Tilt-fine	Fine control of tilt movement
5	3	0	14	Colour	Open/white
		15	29		Colour 1
		30	44		Colour 2
		45	59		Colour 3
		60	74		Colour 4
		75	89		Colour 5
		90	104		Colour 6
		105	119		Colour 7
		120	127		Colour 8
		128	189		Forward rainbow effect, fast to slow
		190	193		Stop rainbow effect
		194	255		Backward rainbow effect, slow to fast
6	4	0	9	Gobo	Open
		10	19		Gobo 1
		20	29		Gobo 2
		30	39		Gobo 3
		40	49		Gobo 4
		50	59		Gobo 5
		60	69		Gobo 6
		70	89		Gobo 1 shake slow to fast
		90	109		Gobo 2 shake slow to fast
		110	129		Gobo 3 shake slow to fast
		130	149		Gobo 4 shake slow to fast
		150	169		Gobo 5 shake slow to fast
		170	189		Gobo 6 shake slow to fast
		190	255		Forward wheel spin, slow to fast
7	5	0	31	Shutter	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
8	6	0	255	Dimmer	Dimmer 0..100%
9	7	0	255	Focus	In (near) to out (far)

10	8	0	5	Rotating	Off
		6	255	Prism, Prism	On
11	9	0	3	Gobo &	TBD
		4	127	Prism	Forwards gobo and prism rotation, fast to slow
		128	131	rotation	Stop gobo and prism rotation
		132	255		Backwards gobo and prism rotation, slow to fast
12	10	0	225	Speed	Pan/tilt speed, fast to slow
		226	235	pan/tilt	Blackout during pan/tilt movement
		236	245		Blackout when colour and gobo wheel switching
		246	255		TBD
13	11	0	79	Special	TBD
		80	84	function	Reset all
		85	87		Reset pan/tilt
		88	90		Reset colour
		91	93		Reset gobo
		94	96		TBD
		97	99		Reset other
		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

The device is controlled by universal DMX 512 protocol, DMX address is the start channel used to receive instructions from the external controller. For independent control, each fixture must be assigned its unique address control channels. For example, this device has two channel modes: 13/11, if we set the mode at standard 13 channels mode, and there are several models need to be independently controlled, we just simply address first fixture at 1, and second fixture at 14, third one at 27, etc.

- If the devices have the same address, they will behave synchronically.
- Display is flashing when no DMX signal is received.

More Functions

- Software upgrade function via DMX cable. If there is any new firmware for this device, it can be upgraded simply via a software upgrade box, without the need to change any mechanical parts. The upgrade box is not included in the package, if you need any further assistance please contact your authorized dealer.
- Hibernation. The device will enter sleeping mode if activated after a period of disconnecting DMX signal to save power and will wake immediately when the DMX signal is sent or received again.

Technical Specifications

Photometrics

- Light Source: 75W White LED
- Beam Angle: 13.5°
- Output: 10215lux @ 2.5M
- PWM: 1470Hz
- LED Lifespan: 50,000 hours

Colour

- 1 colour wheel (8 colours + open)

Gobo

- 1pc 6 patterns + open rotating wheel (outside Ø18mm, inside Ø14mm).

Effects

- 3-facet prism
- Dimming: 0~100%
- Strobe: 0.6~25 Hz
- Focus: 3-30m, Linear via DMX

Movement

- 8 / 16 – bit, Auto-reposition
- Pan: 360°/540°/630°
- Tilt: 90°/180°/270°
- Limit mode: centre/corner/edge

Power

- Input Voltage: 100~240V AC, 50/60 Hz
- Power Consumption: 110W
- Connection: Powercon in
- Fuse: T2A, 250V

Control

- Protocol: DMX512
- Operation Modes: DMX, auto, manual, sound active, master/slave
- DMX Channels: 13 / 11
- Interface: 3-pin XLR in & out
- Built-in Programming: Yes
- Sound Active: Yes
- Display: 4-button 1.44 inch LCD display control panel
- Cooling: Fan

Housing

- Materials: Metal & Flame retardant ABS
- Finishing: Matte black
- IP rating: IP20
- Net Weight: 4 kg
- Rigging: 1x omega bracket with ¼ turn quick locks.

Warranty

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