



LM180

180W 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 (revised 05/11/2020)



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 20 inches (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 & 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.

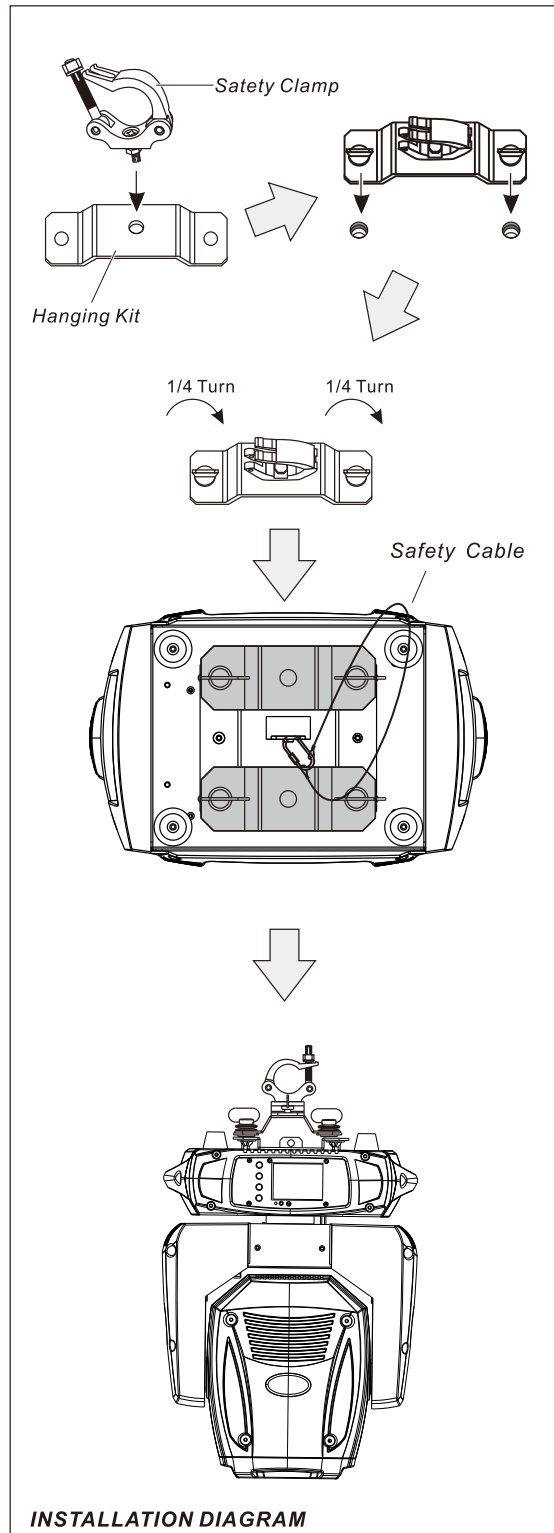
Step 3: Install the new fuse in the fuse holder.

Step 4: Replace the fuse holder in the housing and fix it.

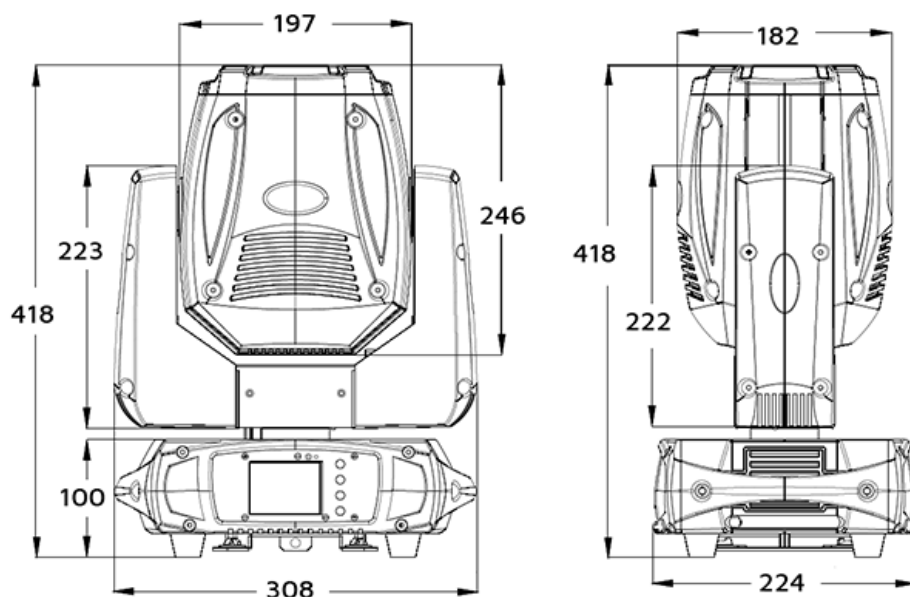


Product Installation

- 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.



Dimensions

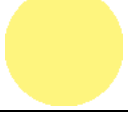


Lux Chart

Lux chart @ 16°

2.5m	5m	7.5m	10m	20m
Ø0.67	Ø1.34	Ø2.00	Ø2.67	Ø4.00
19,120	4,780	2,150	1,210	540

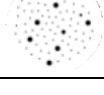
Colour Wheel

	Red		Magenta
	Dark Blue		Blue
	Green		Orange
	Yellow		Open



Static Gobo Wheel

Rotating Gobo Wheel

	Position 1		Position 1
	Position 2		Position 2
	Position 3		Position 3
	Position 4		Position 4
	Position 5		Position 5
	Position 6		Position 6
	Position 7		
	Position 8		

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
Function Mode	DMX Address	A001~AXXX	DMX Address Setting
	Channel Mode	CH14	14 Channel Mode
		CH16	16 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	Wired DMX
		Wireless DMX Wireless TX	Wireless DMX Receiver Wireless DMX Transceiver
	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) Flip Display (On/Off)
Information	Temperature	XXX°C/°F	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.



DMX Chart

Mode/Channel		Value	Function
14	16		
1	1		Pan
		0..255	Pan movement
2	2		Pan Fine
		0..255	Fine control of pan movement
3	3		Tilt
		0..255	Tilt movement
4	4		Tilt Fine
		0..255	Fine control of tilt movement
5	5		Colour
		0..15	Open / white
		16..31	Red
		32..47	Dark Blue
		48..63	Green
		64..79	Yellow
		80..95	Magenta
		96..111	Blue
		112..127	Orange
		128..189	Forward rainbow effect, fast to slow
		190..193	Colour rotation stop
		194..255	Reverse rainbow effect, slow to fast
6	6		Rotation Gobo
		0..9	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	7		Rotation Gobo
		0..3	TBD
		4..127	Forward gobo rotation, fast to slow
		128..131	Gobo rotation stop
		132..255	Reverse gobo rotation, slow to fast
8	8		Static Gobo
		0..14	Open
		15..29	Gobo 1
		30..44	Gobo 2
		45..39	Gobo 3
		60..74	Gobo 4
		75..89	Gobo 5
		90..104	Gobo 6
		105..119	Gobo 7
		120..134	Gobo 8
		135..144	Gobo 1 shake slow to fast
		145..154	Gobo 2 shake slow to fast
		155..164	Gobo 3 shake slow to fast
		165..174	Gobo 4 shake slow to fast
		175..184	Gobo 5 shake slow to fast
		185..194	Gobo 6 shake slow to fast
		195..204	Gobo 7 shake slow to fast
		205..214	Gobo 8 shake slow to fast
		215..255	Forward wheel spin, slow to fast
9	9		Shutter
		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	10		Dimmer
		0..255	Dimmer 0%...100%
11	11		Focus
		0..255	In(near) to out(far)
12	12		Rotating prism, Prism
		0..5	OFF
		6..127	ON



		128..189	Forward rotation, fast to slow
		190..193	Prism rotation stop
		194..255	Reverse rotation, fast to slow
13	13		Speed pan/tilt
		0..225	Pan/tilt speed, fast to slow
		226..235	Blackout during pan/tilt functions
		236..245	Blackout when colour and gobo switching
		246..255	TBD
14	14		Special Function
		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
Vector Mode Value			Function
	15		Colour Time
		0..255	Colour speed, fast to slow
	16		Gobo Time



		0..255	Gobo speed, fast to slow
--	--	--------	--------------------------

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: 14/16, if we set the mode at standard 16 channels mode, and there are several models need to be independently controlled, we just simply address first fixture at 1, and second fixture at 17, third one at 33, 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 sleep 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

Photometric

- Light Source: 180W White LED 7,500K
- Beam Angle: 16°
- Output: 19,120lux @ 2.5M
- PWM: 1,000Hz
- LED Lifespan: 50,000hours

Colour

- 1 colour wheel (7 Colours + Open)

Gobo

- Fixed: 1 x (8 + open) fixed gobo wheel
- Rotating: 1 x (6 + open) interchangeable rotating gobo wheel (outside ø24mm, inside ø17mm).

Effects

- Prism: 3-facet
- Dimming: 0~100%
- Strobe: 1.2~17Hz



- Focus: 2.5~30m 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: 90~260V AC, 50/60Hz
- Power Consumption: 210W
- Connection: PowerCon in/out
- Fuse: F4A, 250V

Control

- Protocol: DMX512
- Operation modes: DMX, manual, auto, sound active, master/slave
- DMX Channels: 14/16
- 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: 10.5kg
- Rigging: 2pcs omega brackets with 1/4-turn quick locks

Warranty

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

