



LM180BWS

180W Hybrid Moving Head

USER MANUAL



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

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Version: 1.0 (revised 07/07/2021)

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 15A. 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).

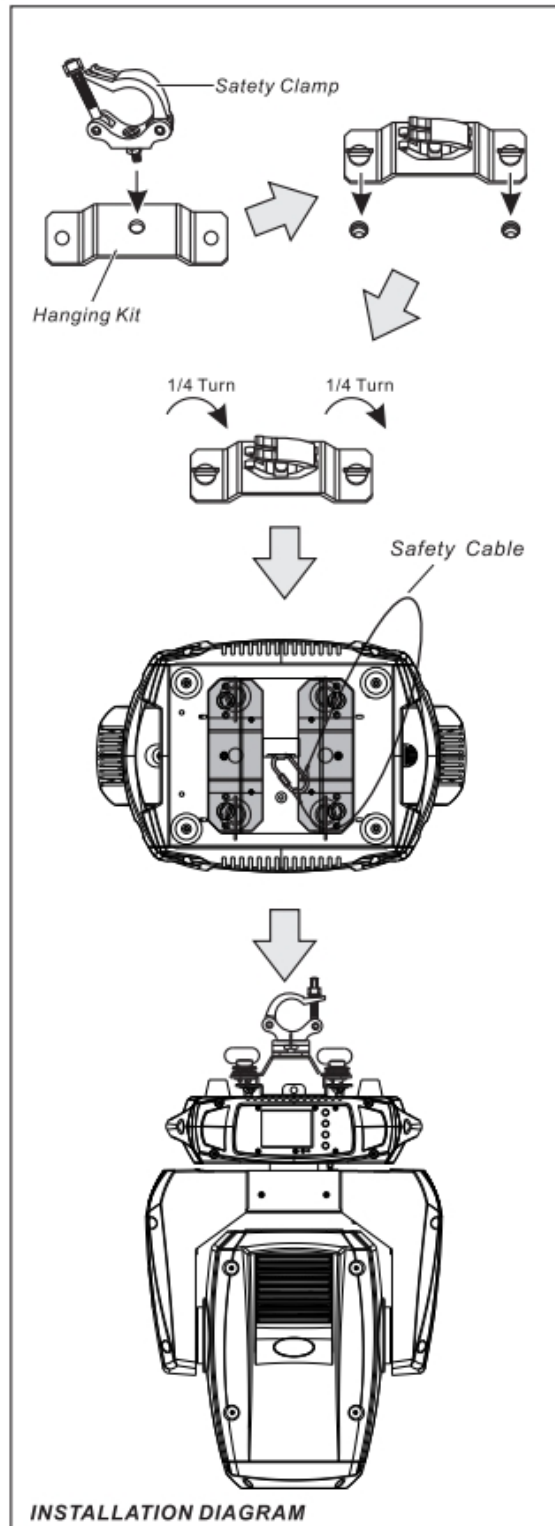
Step 2: Remove the old fuse from the fuse holder.

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

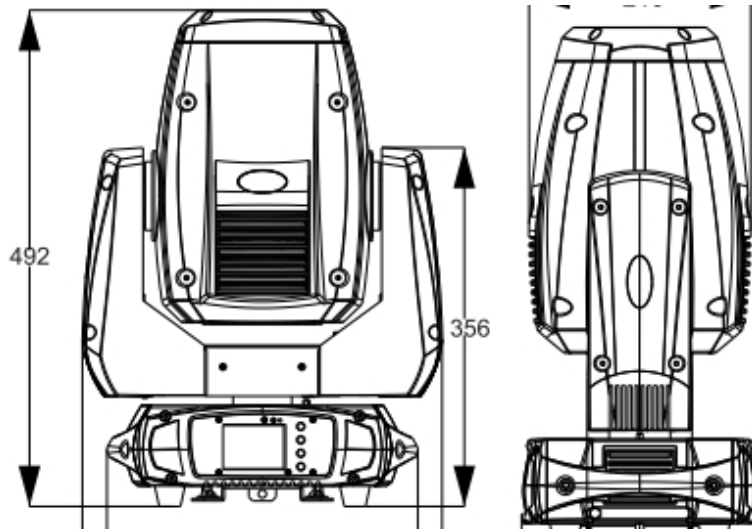
Step 4: Replace the fuse holder in the housing and fix it.

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 @ 3.8° (Beam)

2.5m	5m	7.5m	10m
Ø0.17	Ø0.33	Ø0.50	Ø0.66
74,300	27,300	13,600	7,150

Lux @ 9° (Beam)

2.5m	5m	7.5m	10m
Ø0.39	Ø0.79	Ø1.18	Ø1.57
20,000	7,200	3,200	1,920


Lux @ 30° (Spot)

2.5m	5m	7.5m	10m
Ø1.34	Ø2.68	Ø4.02	Ø5.36
2,300	630	397	290








Lux @ 37° (Spot)

2.5m	5m	7.5m	10m
Ø1.67	Ø3.35	Ø5.02	Ø6.69
700	230	150	110


















Colour Wheel

	Open		
	Red		Purple
	Dark Blue		Aqua
	Green		Cream
	Yellow		Blue
	Magenta		Orange

Rotating Gobo Wheel

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

Static Gobo Wheel

	Open		Position 9
	Position 1		Position 10
	Position 2		Position 11
	Position 3		Position 12
	Position 4		Position 13
	Position 5		Position 14
	Position 6		Position 15
	Position 7		Position 16
	Position 8		

Menu Operation LCD



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	CH17	17 Channel Mode
		CH15	15 Channel Mode
		CH19	19 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) Flip Display (On/Off)	Microphone Sensitivity Setting Hold or no hold When no Signal Select half Colour Flip Display
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

- 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, this device has three channel modes: 17/15/19, if it's set to 17 channel mode, and there are several fixtures need to be independently controlled, we just simply address the first fixture at 1, and second fixture at 18, third one at 35, 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
17 Ch	15 Ch	19 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
			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	99	Colour Mode 1 - Colour 9
			100	127	Colour Mode 1 - Colour 10
			128	189	Forward rainbow, fast to slow
			190	193	Colour rotation stop
			194	255	Reverse rainbow effect, slow to fast
5*	3*	5*	0	4	Colour Mode 2 - 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	99	Colour Mode 2 - Colour 9 + Colour 10
			100	104	Colour Mode 2 - Colour 10
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	4	Static Gobo - Open
			5	9	Static Gobo 1
			10	14	Static Gobo 2
			15	19	Static Gobo 3
			20	24	Static Gobo 4
			25	29	Static Gobo 5
			30	34	Static Gobo 6
			35	39	Static Gobo 7
			40	44	Static Gobo 8
			45	49	Static Gobo 9
			50	54	Static Gobo 10
			55	59	Static Gobo 11
			60	64	Static Gobo 12
			65	69	Static Gobo 13
			70	74	Static Gobo 14
			75	79	Static Gobo 15
			80	84	Static Gobo 16
			85	92	Static Gobo 1 shake, slow to fast
			93	100	Static Gobo 2 shake, slow to fast
			101	108	Static Gobo 3 shake, slow to fast
			109	116	Static Gobo 4 shake, slow to fast
			117	124	Static Gobo 5 shake, slow to fast
			125	132	Static Gobo 6 shake, slow to fast
			133	140	Static Gobo 7 shake, slow to fast
141	148	Static Gobo 8 shake, slow to fast			
149	156	Static Gobo 9 shake, slow to fast			
157	164	Static Gobo 10 shake, slow to fast			
165	172	Static Gobo 11 shake, slow to fast			
173	180	Static Gobo 12 shake, slow to fast			
181	188	Static Gobo 13 shake, slow to fast			

			189	196	Static Gobo 14 shake, slow to fast
			197	204	Static Gobo 15 shake, slow to fast
			205	212	Static Gobo 16 shake, slow to fast
			213	255	Static Gobo - 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	Focus-fine, near to far
13	11	13	0	255	Zoom, in (near) to out (far)
14	12	14	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, slow to fast
15	13	15	0	199	Frost - off
			200	255	Front - on
16	14	16	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
17	15	17	0	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 motors
			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			
		18	0	255	Colour speed, fast to slow

		19	0	255	Gobo speed, fast to slow
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* 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: 180W White LED 7,500K
- Beam Angle: 3.8°-30° (beam), 9°-37° (spot)
- Output: 74,300 lux @ 2.5 m @ 3.8°, 2,300 lux @ 2.5 m @ 30°
- LED Lifespan: 50,000hours

Colour

- 1 colour wheel (10 Colours + Open)

Gobo

- Fixed: 1 x (16 + open) fixed gobo wheel
- Rotating: 1 x (6 + open) interchangeable rotating gobo wheel

Effects

- Prism: 3-facet
- Dimming: 0~100%
- Strobe: 1.2~20Hz
- Focus: 2.~20m 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: 236W
- Connection: PowerCon in/out
- Fuse: F4A, 250V

Control

- Protocol: DMX512
- Operation modes: DMX, manual, auto, sound active, master/slave
- DMX Channels: 15/17/19
- 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: 15.5kg
- Rigging: 2pcs omega brackets with 1/4-turn quick locks

Optional Accessories

- Road case: LM180BWSCASE
- Wireless DMX: WDMXMLM

Warranty

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