



SPOT MOVING HEAD

M1S190W

USER MANUAL



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

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www.event-lighting.com.au

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 & 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.

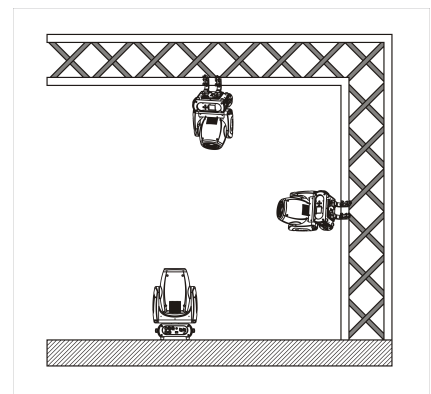
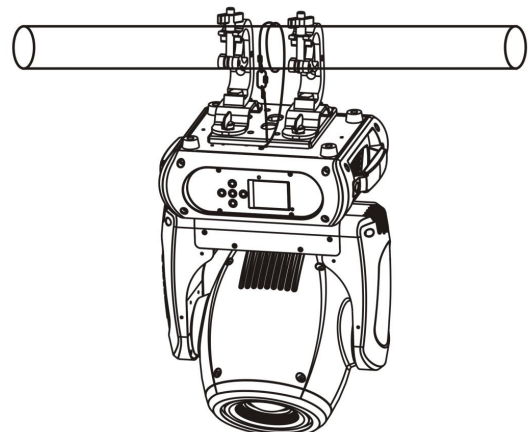
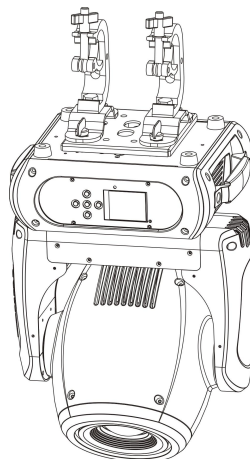
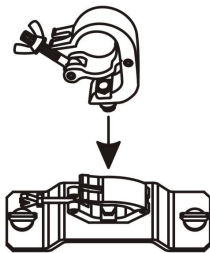
Step 3: Install the new fuse in the fuse holder.

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

Product Installation

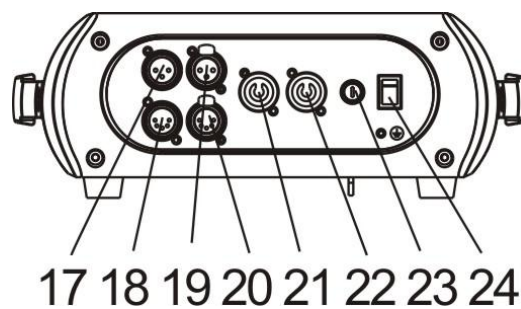
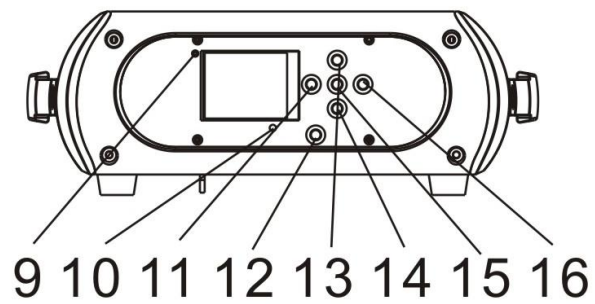
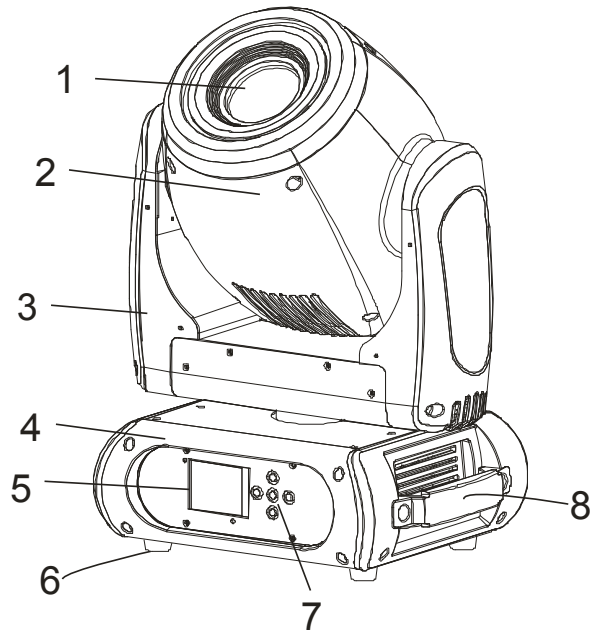
This device can be mounted in many orientations provided each individual device is secured by the use of correct mounting bracket.

Use a safety chain when mounting this device overhead.



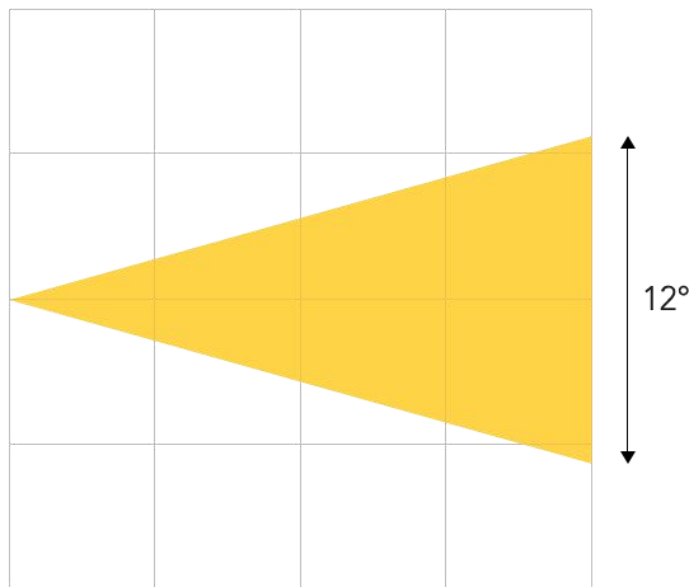
Product appearance, LUX chart, Dimensions

1. Project lens
2. Head
3. Arm
4. Base
5. Display
6. Foot stand
7. Operation button
8. Handle
9. Wireless indicator
10. Mic
11. Left button
12. Battery indicator
13. Up button
14. Down button
15. Enter button
16. Right button
17. 3-pin DMX in
18. 3-pin DMX out
19. Powercon in
20. Powercon out
21. Fuse
22. Power switch

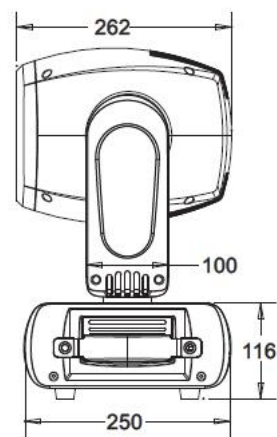
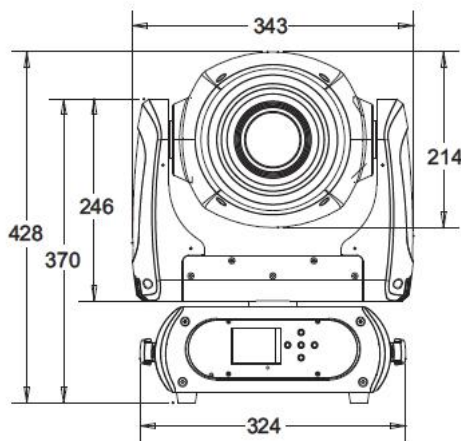
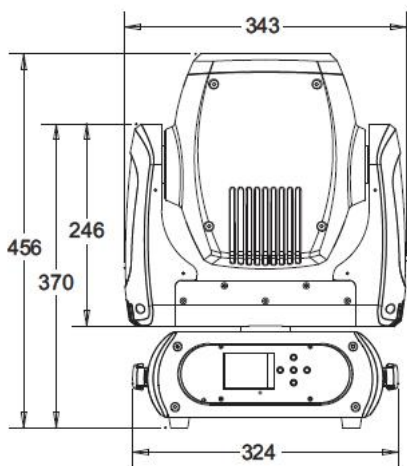


Distance

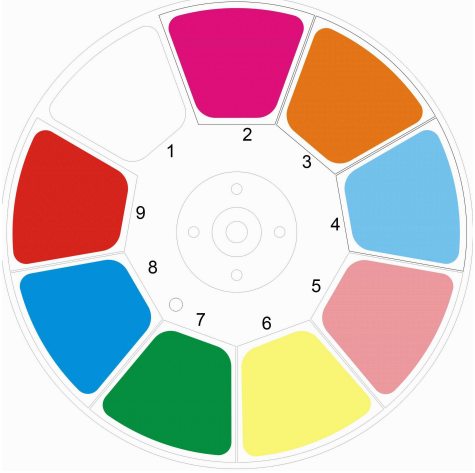








2.5 5.0 7.5 10



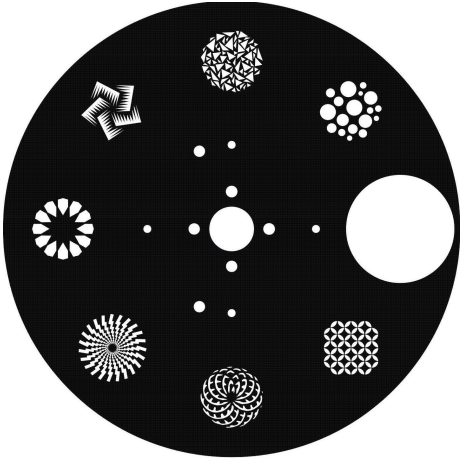
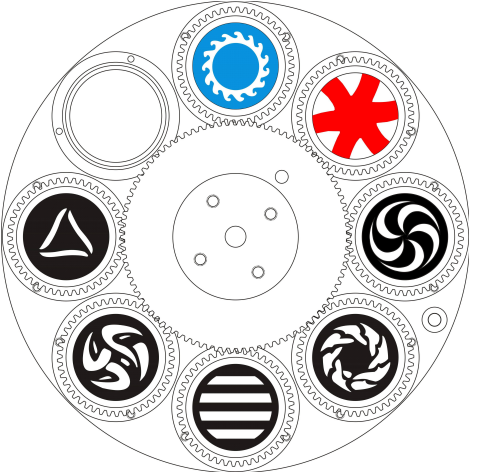
LUX @ 12°	Ø 0.53	Ø 1.05	Ø 1.58	Ø 2.1
	35,420	8,960	4,046	2,296



Colour wheel

	1	Open	
	2		Magenta
	3		Orange
	4		Sky blue
	5		Pink
	6		Yellow
	7		Green
	8		Blue
	9		Red

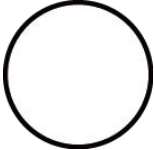







Gobo wheel

Static gobo wheel	Rotating gobo wheel (slot-in-out gobos)
	

Rotating gobo wheel

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

Static gobo wheel

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

Menu operation

Description of icons in the menu

CONNECT	LIGHT	INFOMATION	SET	PROGRAM
				

Menu

Default setting shadowed. Mark with ① can be basic reloaded, ② be program reloaded, ③ can be private reloaded.

Connect	DMX Address①	XXX	DMX address setting	
	Wireless①	XXX	Wireless Enabled	
Light	Max Temperature①	80~139°C 90°C /176~282°F 176°F	Lamp off if temperature continuously over for 2 minutes	
	Lamp Adjust①	PAN.....	Adjust value of channel	
Information	Time Info.	Current XXXX(Hours)	Fixture boot time	
		Fixture Life XXXX(Hours)	Fixture total run time	
	Temperature	Near Lamp Temp (depends on fixture)	Temperature Sensors	
	Fans Speed	Near Lamp Fan (depends on fixture)	Fan speed Sensors	
	Channel Value	PAN.....	Display value of channel	
	Error Message	Pan, Tilt.....	Error channels	
	Fixture Model	xxxxxxxxxxxx	Display model brand and model	
	Software Ver	1U01 V1.0.00.....	Version of each IC	
Set	Reset	All	Reset all	
		Pan & Tilt	Reset Pan & Tilt	
		:	:	
	Movement	Pan Reverse①	ON/OFF	Pan Reverse
		Tilt Reverse①	ON/OFF	Tilt Reverse
		Pan Degree①	630/540	Choose Pan Degree
		Encoders①	ON/OFF	Encoder wheel on/off
		Pan/Tilt Mode①	Stand/Smooth	Choose pan/tilt mode
	UI Set	Mic Sens. ③	0~99%,(60%)	Sensitivity of Mic
		No Signal①	Close/Hold/Auto/Music	Mode when no signal
		Temperature. C/F①	Fahrenheit /Celsius	Temperature at °C/°F
		Fans Mode①	Auto Speed /High Speed	Fans mode
		Hibernation①	OFF, 01M~99M, (15M)	Sleeping mode
		Backlight①	02~60m (02m)	Show backlight time
		Flip Display①	ON/OFF	Display 180°reverse
		Display Bright③	00~31 (10)	Display Brightness
		Brand Show①	ON/OFF	Show brand or not
	Key Lock①	ON/OFF	Key lock on/off	

	Language ^③	En/Fr/Sp/简/繁	Language Select
Fixture Set	Theater Mode	ON/OFF	Theater Mode
	Frequency	600Hz---4000KHz (1200Hz)	Frequency
Users	User Mode ^①	Standard	Standard mode
		Extended	Extended mode
		:	:
	User	User program mode	
Edit User ^③	Max Channel = XX	Edit users mode	
	PAN = CH01		
	:		
Calibration ^③	-Password-	=xxx	Password: 050
	Pan	=xxx	Calibrate channel value
	:	:	
Fixture ID ^③	Name		Name
	Rdm Mode		RDM Mode
	-Password-		Password: 050
	PID Code		Set PID of RDM
Wireless Set ^①	DMX On Cable	ON/OFF	DMX On Cable
	Reset Connect	ON/OFF	Reset Connect
Reload Default	Basic Reload ^①	ON/OFF	Basic Reload
	Program Reload ^②	ON/OFF	Program Reload
	---Password---	XXX	Password: 050
	Private Reload ^③	ON/OFF	Private Reload
	All Reload	ON/OFF	All Reload
Play ^①	DMX Receive		DMX Receive
	Slave Receive	Slave Receive 1,2,3	Choose slave position
	Sequence	Master / Alone	Run Sequence
	Music	Master / Alone	Music mode
Select Chase ^②	Chase Part 1	Chase 1 ~ 8	Select and run auto program
	Chase Part 2	Chase 1 ~ 8	
	Chase Part 3	Chase 1 ~ 8	
Edit Chase ^②	Chase 1	Chase Test	Test
	:	Step 01	=xxx
	Chase 8	Step 64	=xxx
Edit Scenes ^②	Edit Scene 001	Pan,Tilt,.....	=xxx
	~ Edit Scene 250	--Fade Time--	=xxx
		--Secne Time--	=xxx
		DMX Input	
Scenes Record	ScXX=>ScXX		Auto Input scenes

DMX Chart

Channel				name	function	Min DMX	Max DMX
St	Ex	Ba1	Ba2				
1	1	1	1	Pan	Pan Coarse	0	255
2	2		2	Pan fine	Pan Fine	0	255
3	3	2	3	Tilt	Tilt Coarse	0	255
4	4		4	Tilt fine	Tilt Fine	0	255
5	5	3	5	Movement Speed	Fastest to Slowest	0	255
	6			Movement Function	Normal	0	15
					Movement With Blackout	16	31
					TBD	32	255
6	7			Shutter Function	Normal Shutter Functions	0	15
					Pulse-effect Forward	16	31
					Pulse-effect Reverse	32	47
					Random Strobe	48	63
					TBD	64	255
7	8			Shutter	Normal Shutter Functions		
					Close	0	31
					Strobe Rate (slow to fast)	32	223
					Open	224	255
					Pulse-effect Forward		
					Close	0	31
					Strobe Rate (slow to fast)	32	223
					Open	224	255
					Pulse-effect Reverse		
					Close	0	31
					Strobe Rate (slow to fast)	32	223
					Open	224	255
					Random Strobe		
					Close	0	31
					Strobe Rate (slow to fast)	32	223
		Open	224	255			
		4	6	Shutter	Shutter closed	0	31
					No function (shutter open)	32	63
					Strobe effect slow to fast	64	95
					No function (shutter open)	96	127
					Pulse-effect in sequences	128	159
					No function (shutter open)	160	191
					Random strobe effect slow to fast	192	223
					No function (shutter open)	224	255
8	9	5	7	Dimmer	Dimmer (Close to Open)	0	255
9	10			Color	Indexed	0	15

				Function	Indexed With Blackout	16	31
					Forward Spin	32	47
					Reverse Spin	48	63
					Continuous	64	79
					Color Bounce	80	111
					TBD	112	255
					Indexed & Indexed with Blackout & Color Bounce		
					Position 1 (Open)	0	13
					Position 2 ~ Position 18	14	255
					Forward Spin		
					Stop to fastest	0	255
					Reverse Spin		
					Stop to fastest	0	255
					Continuous		
					Positioning from 0-360 degrees	0	255
					Indexed		
					Position 1 (Open)	0	2
					Position 2 ~ Position 18	3	53
					Indexed with Blackout		
					Position 1 (Open)	54	56
					Position 2 ~ Position 18	57	106
					Indexed With Bounce		
					Position 1	107	119
					Position 2 ~ Position 9	120	223
					Forward Wheel Spin		
					Stop to fastest	224	239
					Reverse Wheel Spin		
					Stop to fastest	240	255
					Indexed	0	15
					Indexed With Blackout	16	31
					Forward Spin	32	47
					Reverse Spin	48	63
					Continuous	64	79
					Shake	80	95
					TBD	96	255
					Indexed & Indexed with Blackout & Shake		
					Position 1 (Open)	0	31
					Position 2 ~ Position 8	32	255
					Forward Wheel Spin		
					Stop to fastest	0	255
					Reverse Wheel Spin		
					Stop to fastest	0	255
					Continuous		

					Positioning from 0-360 degrees	0	255
					Indexed		
					Position 1 (Open)	0	5
					Position 2 ~ Position 8	6	47
					Indexed with Blackout		
					Position 1 (Open)	48	53
					Position 2 ~ Position 8	54	97
					Indexed With Shake		
					Position 2	98	115
					Position 3 ~ Position 8	116	223
					Forward Wheel Spin		
					Stop to fastest	224	239
					Reverse Wheel Spin		
					Stop to fastest	240	255
		7	9	Rot Gobo			
					Continuous	0	15
					Forward Spin	16	31
					Reverse Spin	32	47
					Forward Animate Rotate	48	63
					Forward Animate Rotate With Blackout	64	79
					Reverse Animate Rotate	80	95
					Reverse Animate Rotate With Blackout	96	111
					TBD	112	255
					Continuous		
					Positioning from 0-360 degrees	0	255
					Forward Spin		
					Stop to fastest	0	255
					Reverse Spin		
					Stop to fastest	0	255
					Forward Animate Rotate & Forward Animate Rotate with Blackout		
					Stop to fastest	0	255
					Reverse Animate Rotate & Reverse Animate Rotate with Blackout		
					Stop to fastest	0	255
					Continuous		
					Positioning from 0-360 degrees	0	191
					Forward Animate Rotate		
					Stop to fastest	192	207
					Reverse Animate Rotate		
					Stop to fastest	208	223
					Forward Spin		
					Stop to fastest	224	239
					Reverse Spin		
					Stop to fastest	240	255
		8	10	Gobo Rot			

15	16			Gobo Function	Indexed	0	15
					Indexed with Blackout	16	31
					Forward Spin	32	47
					Reverse Spin	48	63
					Continuous	64	79
					Shake	80	95
					TBD	96	255
16	17			Fixed Gobo	Indexed & Indexed with Blackout & Shake		
					Position 1 (Open)	0	31
					Position 2 ~ Position 8	32	255
					Forward Wheel Spin		
					Stop to fastest	0	255
					Reverse Wheel Spin		
					Stop to fastest	0	255
					Continuous		
Positioning from 0-360 degrees	0	255					
17	18	9	11	Fixed Gobo	Indexed		
					Position 1 (Open)	0	5
					Position 2 ~ Position 8	6	47
					Indexed with Blackout		
					Position 1 (Open)	48	53
					Position 2 ~ Position 8	54	97
					Indexed with Shake		
					Position 2	98	115
					Position 3 ~ Position 8	116	223
					Forward Wheel Spin		
					Stop to fastest	224	239
					Reverse Wheel Spin		
					Stop to fastest	240	255
17	18	10	12	Prism	Indexed & Indexed with Blackout		
					Position 1 (Open)	0	63
					Position 2	64	127
					Position 3	128	191
					Position 4	192	255
18	19	11	13	Prism Rot	Forward Spin		
					Stop to fastest	0	127
					Reverse Spin		
Stop to fastest	128	255					
19	20			Focus Function	Continuous	0	15
					5m Auto Focus	16	31
					7.5m Auto Focus	32	47
					10m Auto Focus	48	63
					15m Auto Focus	64	79
					>20m Auto Focus	80	95

					TBD	96	255
20	21	12	14	Focus	Continuous		
					Focus In to Focus Out	0	255
					Auto Focus		
					Focus In to Focus Out Fine	0	255
21	22			Iris Function	Indexed	0	15
					Pulse Opening with Forward Blackout	16	31
					Pulse Opening with Reverse Blackout	32	47
					Pulse Closing with Forward Blackout	48	63
					Pulse Closing with Reverse Blackout	64	79
					TBD	80	255
22	23			Iris	Indexed		
					Max. Diameter to Min. Diameter	0	255
					Pulse Opening & Pulse Closing		
					Pulse Slow to Fast	0	255
		13	15	Iris	Indexed	0	191
					Pulse Opening with Forward Blackout	192	207
					Pulse Opening with Reverse Blackout	208	223
					Pulse Closing with Forward Blackout	224	239
					Pulse Closing with Reverse Blackout	240	255
23	24	14	16	Control	Normal	0	7
					Reset All	8	15
					Pan & Tilt Reset	16	23
					Color Reset	24	31
					Gobo Reset	32	39
					TBD	40	47
					Other Reset	48	55
					Display Off	56	63
					Display On	64	71
					TBD	72	79
					TBD	80	87
					Hibernation	88	95
					TBD	96	255

- 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 four channel modes: 21/24/14/16, if we set the mode at standard 23 channels mode, and there are several models need to be independently controlled, we just simply address first fixture at 1, and second fixture at 24, third one at 47, etc.
- If the devices have the same address, they will behave synchronically.
- Display is flashing when no DMX signal is received.

More functions

- RDM. RDM stands for “Remote Device Management”, with this function, users can realize remote control of the device, such as remotely changing DMX address, reverse pan/tilt setting, check a lot of useful information such as temperature, power consumption, fan speed. Etc. Every single device has a unique RDM code programmed at manufacture to distinguish from each other. It is not recommended for users to change this code.
- 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, no need to change any mechanical parts. The upgrade box is not included in the package, if need any further assistance please just contact your authorized dealer.
- Hibernation. The device will enter sleeping mode if activated after a period of disconnecting DMX signal to save the power consumption, and will return immediately as soon as the DMX signal is sent again.
- Display back-up communication IC. There is a back-up communication IC installed in the display PCB, so users could replace at once if the original one is broken.
- Display flip. By press up and down button for more than 3 seconds, the display will flip automatically, this function is useful to read menu conveniently when device is hanged.

Technical Specifications

Power

- Input Voltage: 100~240V AC, 50/60 Hz
- Power Consumption: 270W
- Connection: Neutrik® PowerCON – In / Out

Photometrics

- Light Source: Advanced 8000K 190W White LED Module
- Beam Angle: 12°
- Output: 15,400 lumen, 35,420lux on @2.5M
- PWM: 1,200 Hz
- LED Lifespan: 60,000 hours

Effects

- Dimming: 0 ~ 100%
- Strobe: 0.5 ~26 Hz
- Focus: Electronic Linear
- Prism: 3-facet, 8 facet & Frost
- Iris: Yes

Movement 8 / 16 bit Auto Reposition

- Pan: 630°(3.2 sec) or 540°(2.9 sec)
- Tilt: 233°(1.9 sec)

Colour 8 Colours + Open

Gobos

- Fixed: 1 x 7 + Open Fixed Gobo Wheel
- Rotating: 1 x 7 + Open Interchangeable Rotating Gobo Wheel (Outside Ø27mm, Inside Ø22mm).

Control

- Operational Modes: DMX, Auto Program, Sound Active, Master / Slave
- RDM: Yes
- Protocol: DMX512 (W-DMX™ Optional)
- DMX Channels: 23 / 24 / 14 / 16
- Interface: 3-Pin XLR & 5-Pin XLR
- Display: 2.4" Colour LCD Control Panel with Back-up Power.
- Software Upgrade via DMX: Yes

Housing

- Materials: ABS & Steel
- Finishing: Matte black
- Cooling: Multi Sensor Thermostat Controlled Variable Speed Fan
- IP rating: IP20
- Dimension: 343 x 250 x 456 mm
- Net Weight: 14 kg
- Rigging: 2pcs Omega Brackets with 1/4-turn Quick Locks

MISC

- Road case: [MCASE2LS](#)

WARRANTY

Please refer to your local dealer or please contact Event Lighting Pty Ltd Website:
www.event-lighting.com.au.