M1H200W

Hybrid Moving Head with Zoom

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.

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V1.0

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 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.

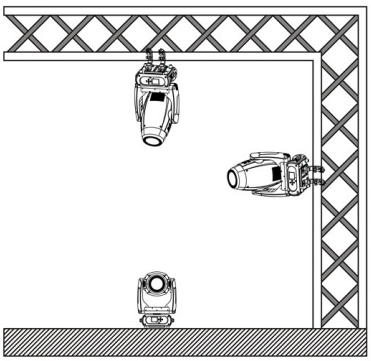
Procedure:

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.

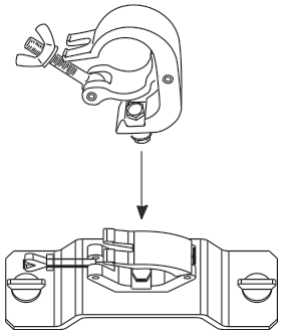
Step 4: Replace the fuse holder in the housing and fix it.

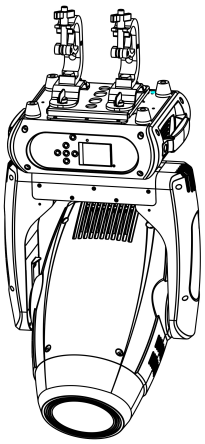


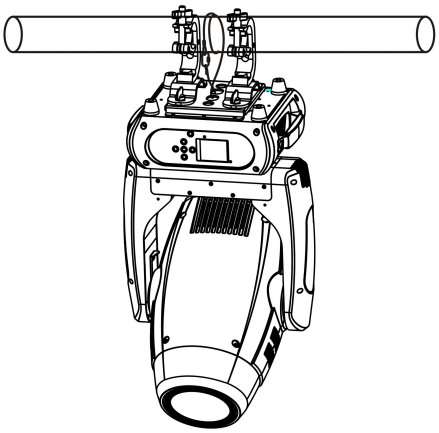
Product Installation

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.

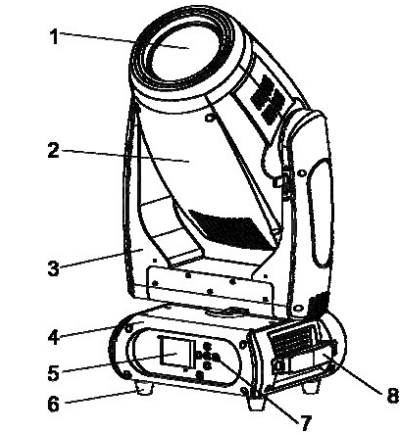


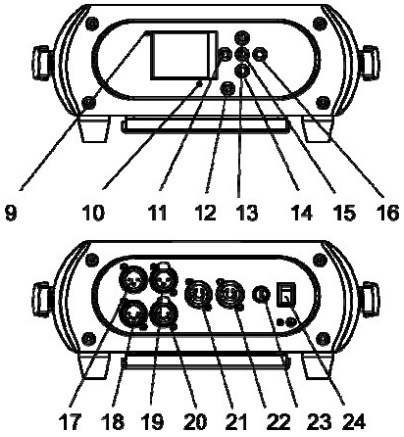


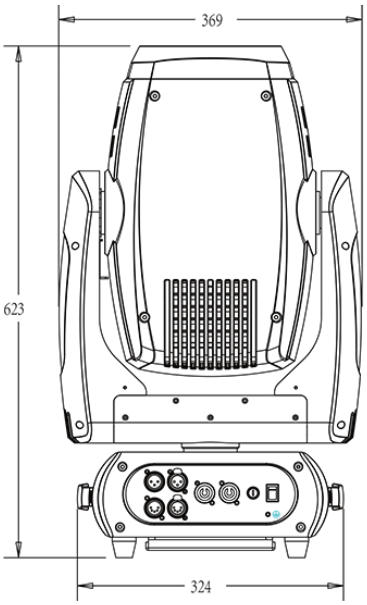


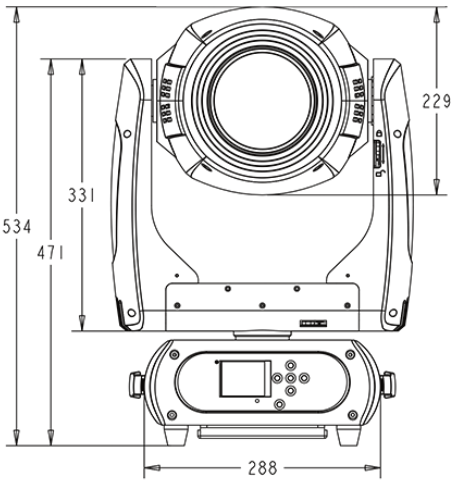
Product appearance, LUX chart, Dimensions

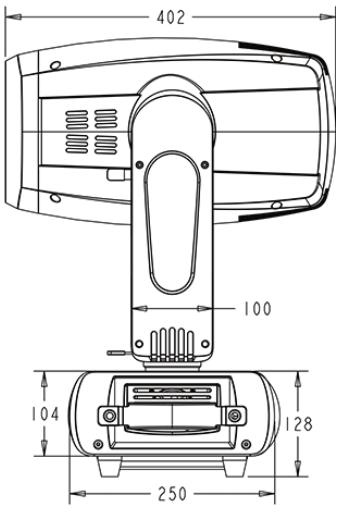
1. Project lens
2. Head
3. Arm
4. Base
5. Display
6. Foot stand
7. Operation button
8. Handle
9. Wireless indicator
10. Mic
11. Left button
12. Battery indicator
13. Up button
14. Down button
15. Enter button
16. Right button
17. 3-pin DMX in
18. 5-pin DMX in
19. 3-pin DMX out
20. 5-pin DMX out
21. Powercon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



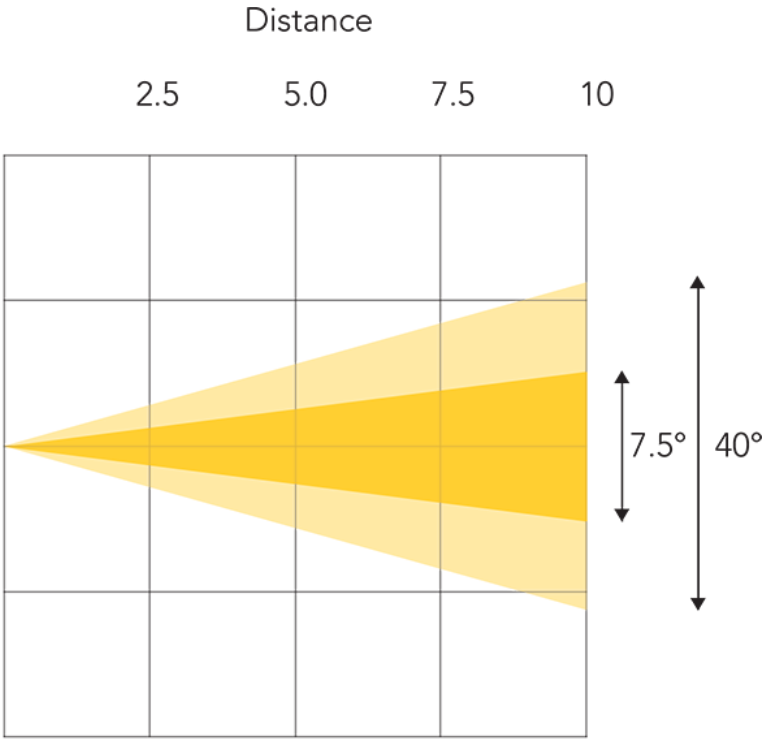






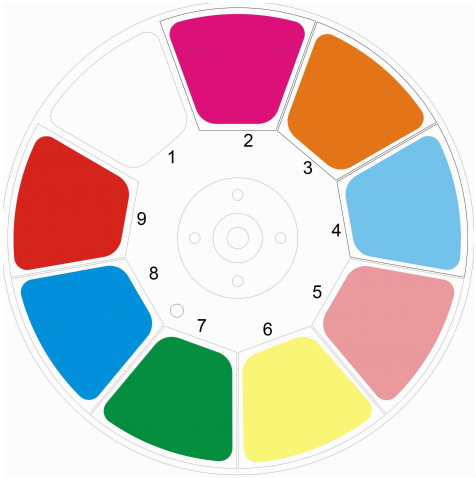


Lux Chart



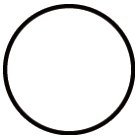
LUX @ 7.5°	∅ 0.33	∅ 0.66	∅ 0.98	∅ 1.31
	61,100	15,300	6,730	3,420
LUX @ 40°	∅ 1.82	∅ 3.64	∅ 5.46	∅ 7.28
	3,200	827	385	221

Colour wheel

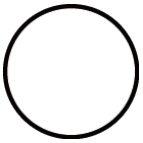


1		Open
2		Magenta
3		Orange
4		Sky blue
5		Pink
6		Yellow
7		Green
8		Blue
9		Red

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			Wireless Enabled
Light	Turn On / Off	ON/OFF		Turn On the lamp
	Automatic	ON/OFF		Lamp On/Off when power on
	DMX Control	ON/OFF		DMX Control or not
	Max Temperature ①	80~139℃90℃ /176~282℉194℉		Lamp off if temperature continuously over for 5 minutes
	Lamp Adjust①	PAN……		Adjust value of channel
Information	Time Info.	Current XXXX(Hours) Fixture Life XXXX(Hours) Lamp Life XXXX(Hours)		Fixture boot time Fixture total run time Lamp 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 Pan&Tilt Colors Gobos Others		Reset all Reset Pan&Tilt Reset Colors Reset Gobos Reset Others
	Movment	Pan Reverse① Tilt Reverse① Pan Degree① Encoders① Pan/Tilt Mode①	ON/OFF ON/OFF 630/540 ON/OFF Stand/Smooth	Pan Reverse Tilt Reverse Choose Pan Degree Encoder wheel on/off Choose pan/tilt mode
	UI Set	Mic Sens. ③ No Signal① Temperature. C/F① Fans Mode① Hibernation① Backlight① Flip Display① Display Bright③ Brand Show①	0~99%,60% Close/Hold/Auto/Music Fahrenheit /Celsius Auto Speed /High Speed OFF, 01M~99M，15M 02~60m 02m ON/OFF 00~31 10 ON/OFF	Sensitivity of Mic Mode when no signal Temperature at ℃/℉ Fans mode Sleeping mode Show backlight time Display 180° reverse Display Brightness Show brand or not

		Key Lock① Language③	ON/OFF En/简/繁/Fr/Sp	Key lock on/off Language Select
	Users	User Mode①	Standard Extended Basic-8bit Basic-16bit User	Standard mode Extended mode Basic-8bit mode Basic-16bit mode User program mode
		Edit User③	Max Channel = XX PAN = CH01 :	Edit users mode
	Calibration③	-Password- Color :	=XXX =XXX :	Password: 050 Calibrate channel value
	Fixture ID③	Name -Password- PID Code		Name Password: 050 Set PID of RDM
	Wireless Set①	DMX On Cable Reset Connect	ON/OFF ON/OFF	DMX Send Out Reset Connect
	Reload Default	Basic Reload(①) Program Reload(②) ---Password--- Private Reload(③) All Reload	ON/OFF ON/OFF XXX ON/OFF ON/OFF	Basic Reload Program Reload Password: 050 Private Reload All Reload
Program	Play①	DMX Receive Slave Receive Sequence Music	 Slave Receive 1,2,3 Master / Alone Master / Alone	DMX Receive Choose slave position Run Sequence Music mode
	Select Chase②	Chase Part 1 Chase Part 2 Chase Part 3	Chase 1 ~ 8 Chase 1 Chase 1 ~ 8 Chase 2 Chase 1 ~ 8 Chase 3	Select and run auto program
	Edit Chase②	Chase 1 : Chase 8	Chase Test Step 01 =SCxxx Step 64 =SCxxx	Test Beginning scene Ending scene
	Edit Scenes②	Edit Scene 001 ~ Edit Scene 250	Pan,Tilt,…… --Fade Time-- --Secne Time-- DMX Input	=xxx =xxx =xxx	Input manual scene Modify manually fading time Modify manually scene time Input scene from exterior controller
	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	Movment Speed	fastest to Slowest	0	255
	6			Movment Function	Normal	0	15
					Movement With Backout	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 Function	Indexed	0	15
					Indexed With BackOut	16	31
					Forward Spin	32	47
					Reverse Spin	48	63
					Continuous	64	79
					Color Bounce	80	111
					TBD	112	255
10	11			Color	Indexed & Indexed With BackOut&Color Bounce		
					Position 1 (Open)	0	13
					Position 2	14	27
					Position 3	28	41
					Position 4	42	55
					Position 5	56	69
					Position 6	70	83
					Position 7	84	97
					Position 8	98	111
					Position 9	112	125
					Position 10	126	139
					Position 11	140	153
					Position 12	154	167
					Position 13	168	181
					Position 14	182	195
					Position 15	196	209
					Position 16	210	223
					Position 17	224	237
					Position 18	238	255
					Forward Spin		
					Stop to fastest	0	255
					Reverse Spin		
					Stop to fastest	0	255
					Continuous		
					Positioning from 0-360 degrees	0	255
		6	8	Color	Indexed		
					Position 1 (Open)	0	2
					Position 2	3	5
					Position 3	6	8
					Position 4	9	11
					Position 5	12	14

					Position 6	15	17
					Position 7	18	20
					Position 8	21	23
					Position 9	24	26
					Position 10	27	29
					Position 11	30	32
					Position 12	33	35
					Position 13	36	38
					Position 14	39	41
					Position 15	42	44
					Position 16	45	47
					Position 17	48	50
					Position 18	51	53
					Indexed With Backout		
					Position 1 (Open)	54	56
					Position 2	57	59
					Position 3	60	62
					Position 4	63	65
					Position 5	66	68
					Position 6	69	71
					Position 7	72	74
					Position 8	75	77
					Position 9	78	80
					Position 10	81	83
					Position 11	84	86
					Position 12	87	89
					Position 13	90	92
					Position 14	93	95
					Position 15	96	98
					Position 16	99	101
					Position 17	102	104
					Position 18	105	106
					Indexed With Bounce		
					Position 1 (Open)	107	119
					Position 2 Red	120	132
					Position 3 Blue	133	145
					Position 4 Green	146	158
					Position 5 Yellow	159	171
					Position 6 Pink	172	184
					Position 7 Sky blue	185	197
					Position 8 Orange	198	210
					Position 9 Megenta	211	223

					Forward Wheel Spin		
					Stop to fastest	224	239
					Reverse Wheel Spin		
					Stop to fastest	240	255
11	12			Rot Gobo Function	Indexed	0	15
					Indexed With BackOut	16	31
					Forward Spin	32	47
					Reverse Spin	48	63
					Continuous	64	79
					Shake	80	95
					TBD	96	255
12	13			Rot Gobo	Indexed & Indexed With Backout&Shake		
					Position 1 (Open)	0	31
					Position 2	32	63
					Position 3	64	95
					Position 4	96	127
					Position 5	128	159
					Position 6	160	191
					Position 7	192	223
					Position 8	224	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
		7	9	Rot Gobo	Indexed		
					Position 1 (Open)	0	5
					Position 2	6	11
					Position 3	12	17
					Position 4	18	23
					Position 5	24	29
					Position 6	30	35
					Position 7	36	41
					Position 8	42	47
					Indexed With Backout		
					Position 1 (Open)	48	53
					Position 2	54	59
					Position 3	60	65
					Position 4	66	71
					Position 5	72	77

					Position 6	78	83
					Position 7	84	89
					Position 8	90	97
					Indexed With Shake		
					Position 2	98	115
					Position 3	116	133
					Position 4	134	151
					Position 5	152	169
					Position 6	170	187
					Position 7	188	205
					Position 8	206	223
					Forward Wheel Spin		
					Stop to fastest	224	239
					Reverse Wheel Spin		
					Stop to fastest	240	255
13	14			Gobo Rot Function	Continuous	0	15
					Forward Spin	16	31
					Reverse Spin	32	47
					Forward Animate Rotate	48	63
					Forward Animate Rotate With Backout	64	79
					Reverse Animate Rotate	80	95
					Reverse Animate Rotate With Backout	96	111
					TBD	112	255
14	15			Gobo Rot	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 Backout		
					Stop to fastest	0	255
					Reverse Animate Rotate & Reverse Animate Rotate With Backout		
					Stop to fastest	0	255
		8	10	Gobo Rot	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
15	16			Gobo Function	Indexed	0	15
					Indexed With BackOut	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 Backout&Shake		
					Position 1 (Open)	0	31
					Position 2	32	63
					Position 3	64	95
					Position 4	96	127
					Position 5	128	159
					Position 6	160	191
					Position 7	192	223
					Position 8	224	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
		9	11	Fixed Gobo	Indexed		
					Position 1 (Open)	0	5
					Position 2	6	11
					Position 3	12	17
					Position 4	18	23
					Position 5	24	29
					Position 6	30	35
					Position 7	36	41
					Position 8	42	47
					Indexed With Backout		
					Position 1 (Open)	48	53
					Position 2	54	59
					Position 3	60	65
					Position 4	66	71
					Position 5	72	77
					Position 6	78	83

					Position 7	84	89
					Position 8	90	95
					Indexed With Shake		
					Position 2	98	115
					Position 3	116	133
					Position 4	134	151
					Position 5	152	169
					Position 6	170	187
					Position 7	188	205
					Position 8	206	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 Backout		
					Position 1 (Open)	0	3
					Forward Spin		
					Stop to fastest	0	127
					Reverse Spin		
					Stop to fastest	128	255
18	19	11	13	Frost	Frost 0-100%	0	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	13	15	Zoom	Continuous		
					Zoom Small to Big	0	255
22	23			Iris Function	Indexed	0	15
					Pulse opening With Forward Backout	16	31
					Pulse opening With Reverse Backout	32	47
					Pulse closing With Forward Backout	48	63
					Pulse closing With Reverse Backout	64	79
					TBD	80	255
23	24			Iris	Indexed		
					Max. diameter to Min.diameter	0	255

					Pulse opening & Pulse closing		
					Pulse Slow to Fast	0	255
		14	16	Iris	Indexed	0	191
					Pulse opening With Forward Backout	192	207
					Pulse opening With Reverse Backout	208	223
					Pulse closing With Forward Backout	224	239
					Pulse closing With Reverse Backout	240	255
24	25	15	17	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: 24/25/15/17, if we set the mode at standard 24 channels mode, and there are several models need to be independently controlled, we just simply address first fixture at 1, and second fixture at 25, third one at 49, 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 275W
- Connection: Neutrik® PowerCON - In / Out

Photometrics

- Light Source: Advanced 6500K 200W White LED Module
- Beam Angle: 7.5° to 40°
- Output: 16,100 lumen, 61,100 lux on @2.5M @7.5°
- PWM: 1200Hz
- LED Lifespan: 60,000 hours

Effects

- Dimming: 0 ~ 100%
- Strobe: 0.5 ~26 Hz
- Focus: Electronic Linear
- Prism: 3-facet & Frost
- Iris: Yes
- Zoom: Electronic Linear 7.5° to 40°

Movement 16 bit Auto Reposition

- Pan: 630°(4.3 sec) or 540°(3.9 sec)
- Tilt: 233°(2.2 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 Ø20mm).

Control

- Operational Modes: DMX, Auto Program, Sound Active, Master / Slave
- RDM: Change DMX Address, Display Flip, X/Y Reverse and so on
- Protocol: DMX512 (W-DMX™ Optional)
- DMX Channels: 24 / 25 / 15 / 17
- Interface: 3-Pin & 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
- Net Weight: 25 kg
- Rigging: 2pcs Omega Brackets with 1/4-turn Quick Locks

MISC Road case: MCASE1LS MCASE2VLS

WARRANTY

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

Website: www.event-lighting.com.au.