HAVOCW19X40CRI

19 x 40W Zoom Wash Moving Head

USER MANUAL

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

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Version: 1.0 (16.07.2025)

www.event-lighting.com.au

CONTENTS

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 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 in any location where excessive dust, 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 40° C. Do not operate this device at higher temperatures.

Power Input and Power Linking

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

Link up to a maximum of 8A. Do NOT exceed this.

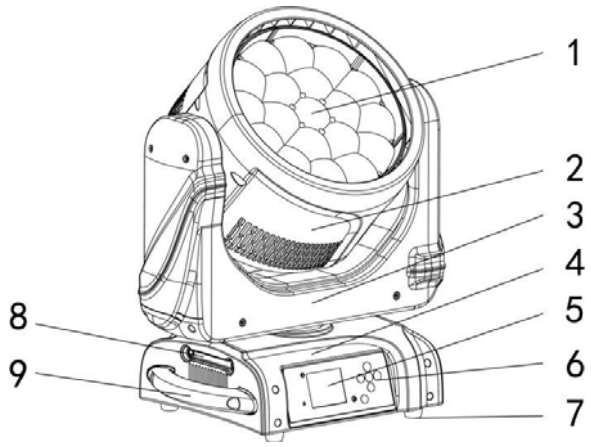
Fuse Replacement

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.

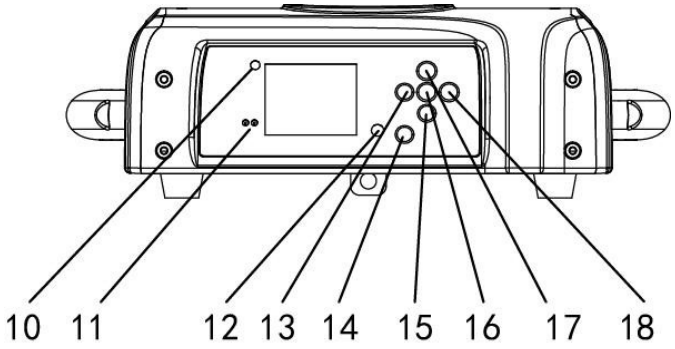
Procedure:
Step 1: Unscrew the fuse holder on the rear panel with a fitting screwdriver from the housing (anticlockwise).
Step 2: Remove the old fuse from the fuse holder.
Step 3: Install the new fuse in the fuse holder.
Step 4: Replace the fuse holder in the housing and fix it.

Introduction

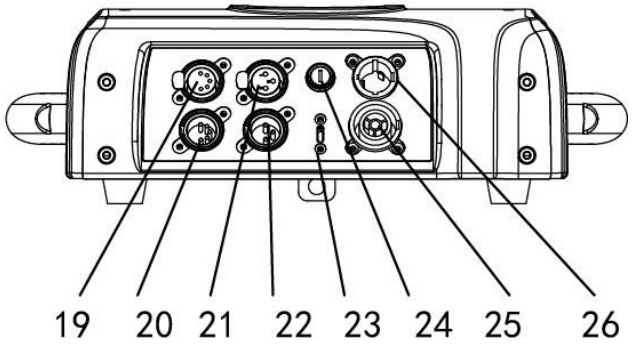
1. Project lens
2. Head
3. Arm
4. Base
5. Display
6. Operation button
7. Foot stand
8. Antenna
9. Handle



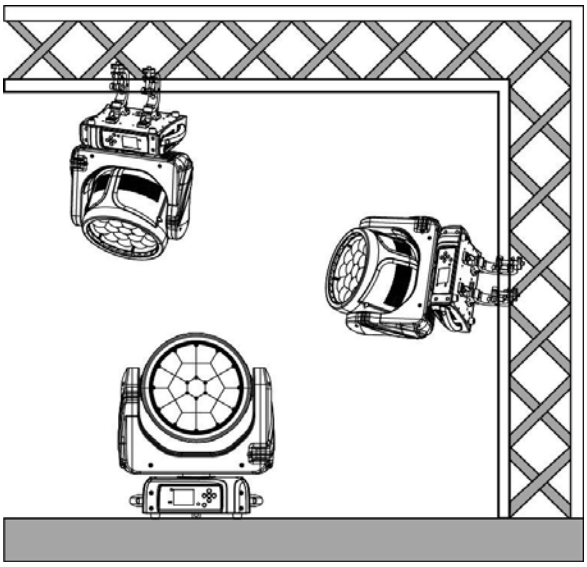
10. Battery indicator
11. Ethernet indicator
12. Power indicator
13. Left button
14. Power button
15. Down button
16. Enter button
17. Up button
18. Right button



19. 5-pin DMX in
20. 5-pin DMX out
21. 3-pin DMX in
22. 3-pin DMX out
23. USB
24. Fuse
25. True1 out
26. True1 in



Installation



The device could be either put on a solid and even Surface, or mounted upside down or sideways like left picture.

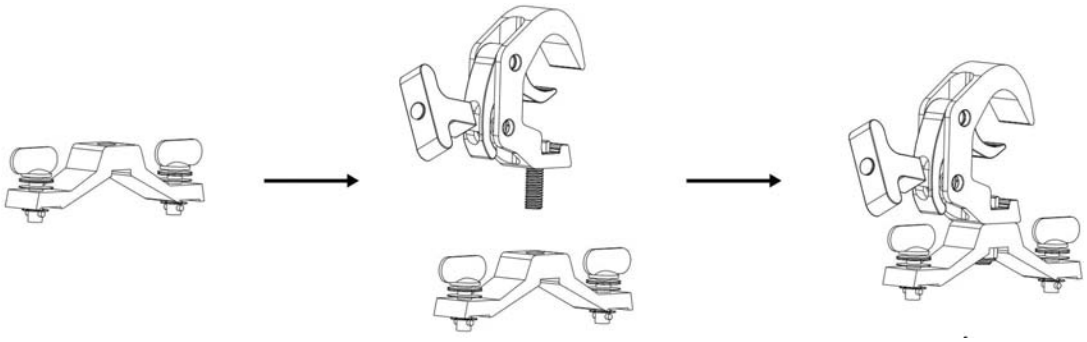
The mounting place must be sufficient stable and be able to support a weight of 10 times of the unit's weight. When the fixture is hanged, always additionally secure the device with the safety chain, fasten the safety rope at a suitable position so that the maximum fall of the projector will be 20 cm

Warning!

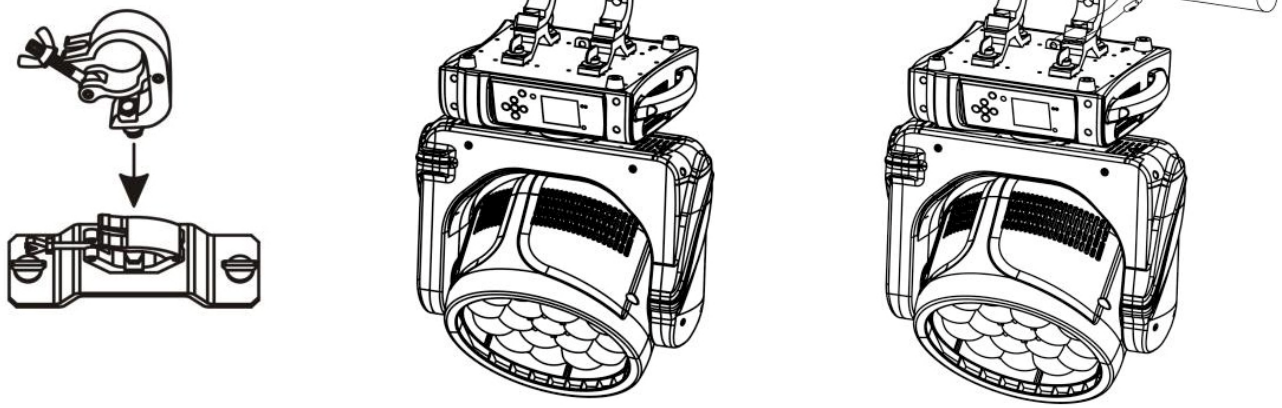
• DO install and operate by qualified operator. Fixture(s) should be installed in areas outside walking paths, seating areas, or away from areas were unauthorized personnel might reach the fixture by hand. NEVER stand directly below the fixture(s) when rigging, removing or servicing.

• Always ensure that the unit is firmly fixed to avoid vibration and slipping off during operation. Ensure that the trussing or area of installation must be able to hold 10 times the weight without any deformation. Always attach a safety cable that can hold at least 12 times the weight of the fixture whenever installing this fixture in a suspended environment to ensure that the fixture will not fall if the clamp fails.

Omega Brackets Setup

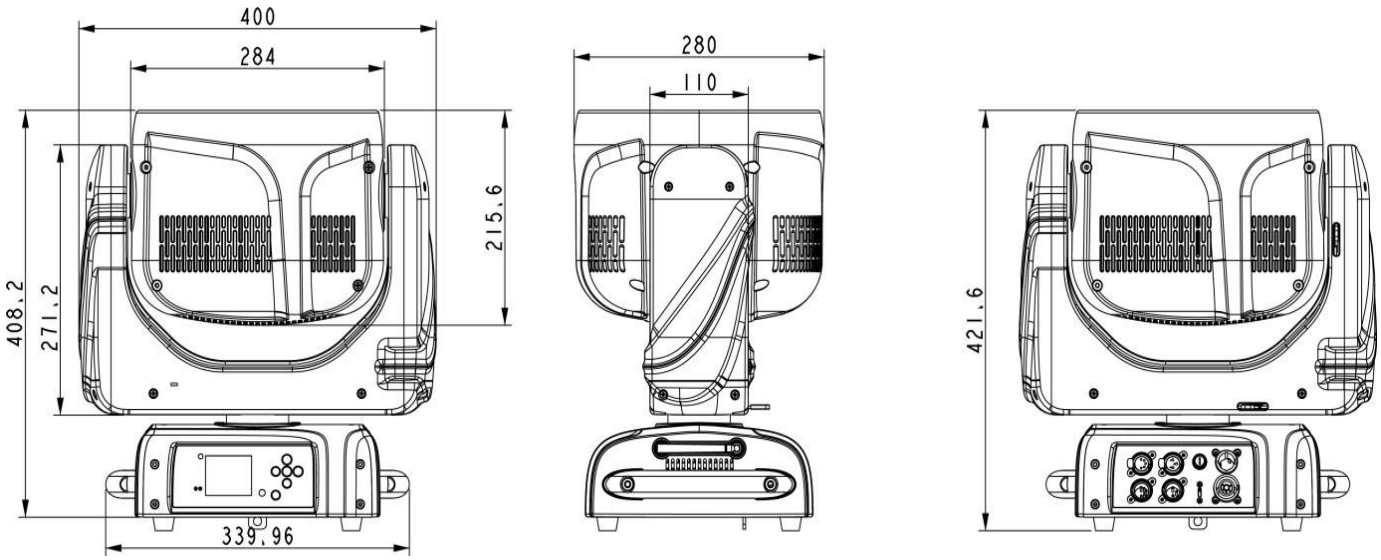


Mounting Procedure

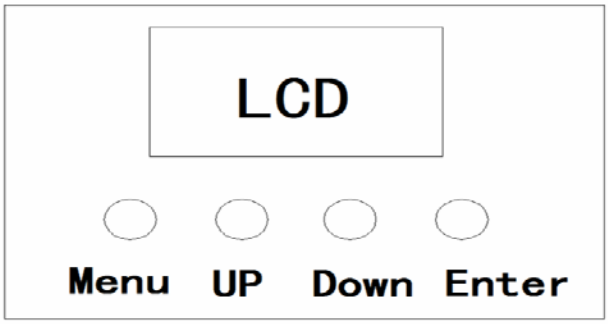


Step 1: Attach the clamp to the omega bracket.
Step 2: Fix the clamp and bracket assembly to the bottom of the device using the quick-lock mechanisms.
Step 3: Mount the complete unit onto a suitable truss and securely fasten the clamp.
Step 4: Attach the safety cable to the designated mounting point on the fixture and secure it to the truss or another fixed structure. Ensure the fall distance is limited to 20 cm or less.

Dimensions



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

Connect	Address	Fixture	Value(1-512)(001)		
		Pixels	Value(1-512)(001)		
	Control Protocol	Fixture	DMX/W-DMX		
		Pixels	Follow Fixture/DMX/WDMX		
	DMX Mode	User Mode	Fixture	Basic	
				Standard	
				Extended	
				EL1	
				EL2	
				EL3	
				EL4	
				User	
			Pixels	Off/Ring/Pixel	
				Off(EL1,EL2,EL3,EL4 mode)	
		Edit User	Max Channel = XX		
			PAN = CH01		
			:		
	Wireless	WDMX On/Off	On/Off		
		WDMX Mode	Transmitter/Receiver		
		TX Link	On/Off		
		TX Unlink	On/Off		

		RX Reset	On/Off		
		DMX TO WDMX	Off/Fix To WDMX/Pix To WDMX		
		WDMX TO DMX	On/Off		
Setup	Fixture settings	DMX Fault	Hold/Blackout		
		Temperature Unit	Fahrenheit /Celsius		
		Fan Mode	Auto/High/Silent/Super Silent		
		Dimmer Curve	Linear/S-Curve/Square Law/Inverse Square Law		
		Dimmer Speed	Auto/Fast/Medium/Slow		
		LED Frequency	16KHZ/20KHZ/40KHZ		
		Menu Language	En/Fr/Sp/简繁(En)		
		Transfer Configuration	Without DMX address		
			With DMX address		
		White Calibration	Off/Studio		
		Tungsten emulation	On/Off		
		Invert Mapping	On/Off		
	Movement	Pan Reverse	On/Off		
		Tilt Reverse	On/Off		
		Pan/Tilt Feedback	On/Off		
		Pan/Tilt Mode	Slow/Medium/Fast		
		Totem Mode	Off/Up/Down		
	Screen	Backlight	On/10S/20S/30S		
		Flip Display	On/Off/Auto		

		Status Led	On/Off		
		Key Lock	On/Off		
	Calibration	Base Color	On/Off		
Information	Fixture Time	Fixture Hours	Total	(Only Read)	
			Partial	(Read And Reset)	
		Current Hours	Total	(Only Read)	
			Partial	(Read And Reset)	
		Led Hours	Total	(Only Read)	
			Partial	(Read And Reset)	
		Power On Cycle	Total	(Only Read)	
			Partial	(Read And Reset)	
	Temperature	Near Source Temp, Driver Pcb Temp, Led Pcb Temp,...			
	Fan Speed	Near Source Fan, Base Fan,...			
	Channel Value	Pan...			
	Error Message	Pan,Tilt,……			
	Fixture Model	XXXXXXXXXX			
	RDM UID	(Read And Reset)			
	Software Version	1U01 V1.0.00...			
	Reset	All			
		Pan & Tilt			
		...			

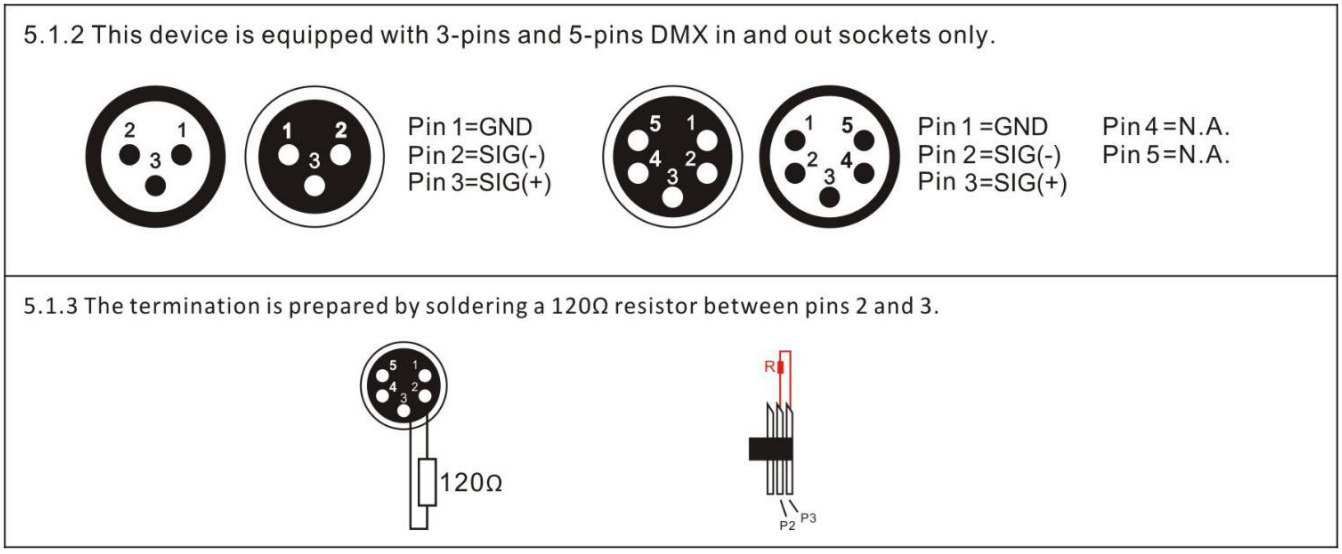
Service	Calibration	Password			
		Pan			
		...			
	Manual Control	Pan			
		...			
	Reload Default	Basic Reload	On/Off		
		Program Reload	On/Off		
		Password			
		Factory Reload	On/Off		
Program	Play①	DMX Receive			
		Slave Receive	Slave Receive 1,2,3		
		Sequence	Master / Alone		
		Music	Master / Alone		
		Mic Sens	0%~100%		
	Select Chase②	Chase Part 1	Chase 1 ~ 8 Chase 1		
		Chase Part 2	Chase 1 ~ 8 Chase 2		
		Chase Part 3	Chase 1 ~ 8 Chase 3		
	Edit Chase②	Chase 1	Chase Test		
		:	Step 01		=xxx
		Chase 8	Step 64		=xxx
	Edit Scenes②	Edit Scene 001	Pan,Tilt,……		=xxx
		~ Edit Scene 250	--Fade Time--		=xxx
			--Secne Time--		=xxx
			DMX Input		
	Scenes Record	ScXX=>ScXX			
	RDM PID Code		xxx		
	Locking		Password		
			xxxHours		
			Unlocking Code		
			Password		

Factory	Calibration		Pan		
			...		
			Zoom		
			…		
			Max Temperature	80~139°C / 176~282°C	
	Reset All Data		Yes/No(No)		
	CCT Min				
	CCT Max				
	Set CCT				
	ResetCCT				

DMX Connection

This fixture is controlled by the universal DMX 512 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 four channel modes: 18/25/37, if it's set to 18 channel mode, and there are several fixtures need to be independently controlled, we just simply address first fixture at 1, and second fixture at 19, third one at 37, etc.

- If multiple fixtures have the same DMX address, they will behave synchronically.
- Display will flash when no DMX signal is received.



DMX Chart

Channel										name	function	Min DMX	Max DMX
Main Engine							Pixel Engine						
Basic	STD	EXT	EL1	EL2	EL3	EL4	OFF	Ring	Pixel				
1	1	1	1	1	1	1				Pan	Pan Coarse	0	255
2	2	2	2	2	2	2				Pan Fine	Pan Fine	0	255
3	3	3	3	3	3	3				Tilt	Tilt Coarse	0	255
4	4	4	4	4	4	4				Tilt Fine	Tilt Fine	0	255
5	5	5	5	5	5	5				XY Speed	Fastest to Slowest	0	255
6	6	6	6	6	6	6				Dimmer	Dimmer(0->100%)	0	255
7	7	7	7	7	7	7				Dimmer Fine	Dimmer Fine(0->100%)	0	255
8	8	8	8	8	8	8				Shutter/Strobe	Close	0	1
											Strobe from slow to fast	2	62
											Open	63	64
											Pulse in from slow to fast	65	125
											Open	126	127
											Pulse out from slow to fast	128	188
											Open	189	190
											Randon from slow to fast	191	251
											Open	252	255
9	9	9	9	9	9					Red	Red	0	255
	10	10		10	10					Red Fine	Red Fine	0	255
10	11	11	10	11	11					Green	Green	0	255
	12	12		12	12					Green Fine	Green Fine	0	255
11	13	13	11	13	13					Blue	Blue	0	255
	14	14		14	14					Blue Fine	Blue Fine	0	255
12	15	15	12	15	15					White	White	0	255
	16	16		16	16					White Fine	White Fine	0	255
13	17	17		17	17					Color Macro	Color Macro	0	255
14	18	18		18	18					CTO	lineary from 3000K to 10000K	0	255
15	19	19	13	19	19	9				Zoom	0 - 100%	0	255
	20	20		20	20	10				Zoom Fine	0 - 100%	0	255
16	21	21								Crossfade for Pixel Engine	0 - 100%	0	255

17	22	22								Crossfade from Color to White	0 - 100%	0	255
18	23	23	14	21	21					Control	No Function/Safe	0	1
											Reserved	2	3
											Reserved	4	5
											Pan Reverse On	6	7
											Pan Reverse Off	8	9
											Tilt Reverse On	10	11
											Tilt Reverse Off	12	13
											Pan/Tilt Mode Fast	14	15
											Pan/Tilt Mode Medium	16	17
											Pan/Tilt Mode Slow	18	19
											Movement In Blackout On	20	21
											Movement In Blackout Off	22	23
											Display On	24	25
											Display 10s	26	27
											Display 20s	28	29
											Display 30s	30	31
											Flip Display On	32	33
											Flip Display Off	34	35
											Flip Display Auto	36	37
											Key Lock On	38	39
											Key Lock Off	40	41
											Fan Mode Auto	42	43
											Fan Mode Silent	44	45
											Fan Mode High	46	47
											White Calibration Off	48	49
											White Calibration Studio	50	51
											Tungsten emulation on	52	53
											Tungsten emulation off	54	55
											No Signal Hold	56	57
											No Signal Blackout	58	59
											Control Status Led On	60	61
											Control Status Led Off	62	63
											Dimmer Curve Linear	64	65
											Dimmer Curve S-Curve	66	67
											Dimmer Curve Square Law	68	69
											Dimmer Curve Inverse Square Law	70	71
											Dimmer Speed Auto	72	73
											Dimmer Speed Fast	74	75
											Dimmer Speed Medium	76	77

											Dimmer Speed Slow	78	79
											Led Frequency 16KHZ	80	81
											Led Frequency 20KHZ	82	83
											Led Frequency 40KHz	84	85
											Invert Mapping On	86	87
											Invert Mapping Off	88	89
											Base Color On	90	91
											Base Color Off	92	93
											Reset All	94	95
											Reset Pan/Tilt	96	97
											Reset Zoom	98	99
											Reserved	100	253
											Factory Default of Control Functions	254	255
	24	24								CTO on colors	0 - 100%	0	255
	25	25								Tint	-25	0	127
											0	128	128
											+25	129	255
		26			22					Pattern	No FX	0	16
											FX 1	17	22
											FX 2	23	28
											FX 3	29	34
											FX 4	35	40
											FX 5	41	46
											FX 6	47	52
											FX 7	53	58
											FX 8	59	64
											FX 9	65	70
											FX 10	71	76
											FX 11	77	82
											FX 12	83	88
											FX 13	89	94
											FX 14	95	100
											FX 15	101	106
											FX 16	107	112
											FX 17	113	118
											FX 18	119	124
											FX 19	125	130
											FX 20	131	136

											FX 21	137	142
											FX 22	143	148
											FX 23	149	154
											FX 24	155	160
											FX 25	161	166
											FX 26	167	172
											FX 27	173	178
											FX 28	179	184
											FX 29	185	190
											FX 30	191	196
											FX 31	197	202
											FX 32	203	208
											FX 33	209	214
											FX 34	215	220
											FX 35	221	226
											FX 36	227	232
											FX 37	233	238
											FX 38	239	244
											FX 39	245	250
											FX 40	251	255
		27			23					Pattern Speed	Indexing	0	127
											CW from fast to slow	128	190
											Stop	191	192
											CCW from slow to fast	193	255
		28			24					Pattern Fade	0 - 100%	0	255
		29			25					Pattern Transition	0 - 100%	0	255
		30			26					Foreground Intensity	0 - 100%	0	255
		31			27					Foreground Strobe	See Shutter/Strobe Channel	0	255
		32			28					Background Intensity	0 - 100%	0	255
		33			29					Background Strobe	See Shutter/Strobe Channel	0	255
		34			30					Background Red	0 - 100%	0	255
		35			31					Background Green	0 - 100%	0	255

		36			32					Background Blue	0 - 100%	0	255
		37			33					Background White	0 - 100%	0	255
								1		Ring 1 Red	0 - 100%	0	255
								2		Ring 1 Green	0 - 100%	0	255
								3		Ring 1 Blue	0 - 100%	0	255
								4		Ring 1 White	0 - 100%	0	255
								5		Ring 2 Red	0 - 100%	0	255
								6		Ring 2 Green	0 - 100%	0	255
								7		Ring 2 Blue	0 - 100%	0	255
								8		Ring 2 White	0 - 100%	0	255
								9		Ring 3 Red	0 - 100%	0	255
								10		Ring 3 Green	0 - 100%	0	255
								11		Ring 3 Blue	0 - 100%	0	255
								12		Ring 3 White	0 - 100%	0	255
					34	11			1	Red 1	0 - 100%	0	255
					35	12			2	Green 1	0 - 100%	0	255
					36	13			3	Blue 1	0 - 100%	0	255
					37	14			4	White 1	0 - 100%	0	255
					38	15			5	Red 2	0 - 100%	0	255
					39	16			6	Green 2	0 - 100%	0	255
					40	17			7	Blue 2	0 - 100%	0	255
					41	18			8	White 2	0 - 100%	0	255
					42	19			9	Red 3	0 - 100%	0	255
					43	20			10	Green 3	0 - 100%	0	255
					44	21			11	Blue 3	0 - 100%	0	255
					45	22			12	White 3	0 - 100%	0	255
									…		0 - 100%	0	255
					106	83			73	Red 19	0 - 100%	0	255
					107	84			74	Green 19	0 - 100%	0	255
					108	85			75	Blue 19	0 - 100%	0	255
					109	86			76	White 19	0 - 100%	0	255

Technical Specifications

Photometrics

- Light Source: 19x OSRAM 40W RGB+WW LEDs
- Beam Angle: 4°-48°
- Output: 7443 lumen,28376 lux@5m@4°, 1208 lux@5m@48°
- CRI⩾93, R9⩾95
- LED Lifespan: 60,000 hours

Effects

- Dimming: 0-100%
- Pixel Control: Yes
- Strobe: 0.5-26 Hz
- Zoom: Motorised, 4°-48°

Movement

- 16-bit auto reposition
- Pan: 540° (3.32s)
- Tilt: 265° (1.57s)

Power

- Input Voltage: 100-240V AC, 50/60 Hz
- Power Consumption: 535W
- Connection: True1 in/out
- Fuse: T 8A, 250V

Control

- Operation Modes: DMX, auto, sound active, master/slave
- Control Protocol: DMX512, RDM, Art-Net (optional: W-DMX™)
- DMX Channels: Main 18/25/37; Pixel 14/21/109/86;12/76
- Control Interface: 3-pin DMX in/out, 5-pin DMX in/out
- Display: 2.4" colour LCD control panel with battery backup
- Software: Upgradeable via DMX or USB

Housing

- Housing Materials: ABS and steel, matte black finish
- Cooling: Sensor controlled fan
- Net Weight: 15.9 kg
- Rigging: 2x Omega bracket with 1/4 turn quick locks
- Road Case: HAVOCW19X40CASE2

Warranty

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