EVENT LIGHTING

HAVOCW7X40

7x 40W Zoom Wash 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 (1 September 2022)

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 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.
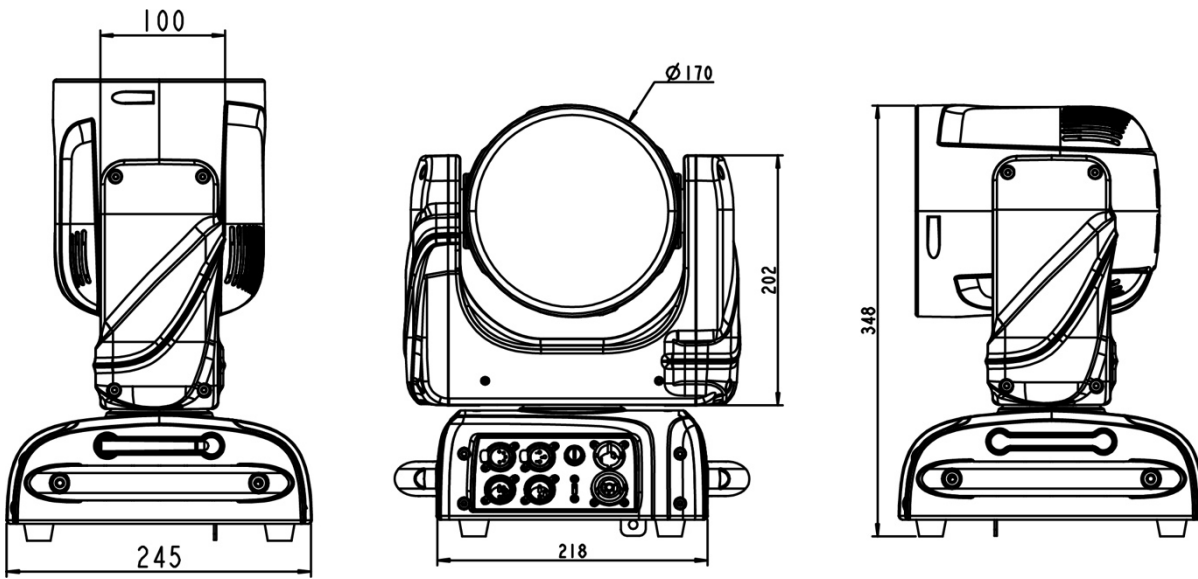Step 3: Install the new fuse in the fuse holder.
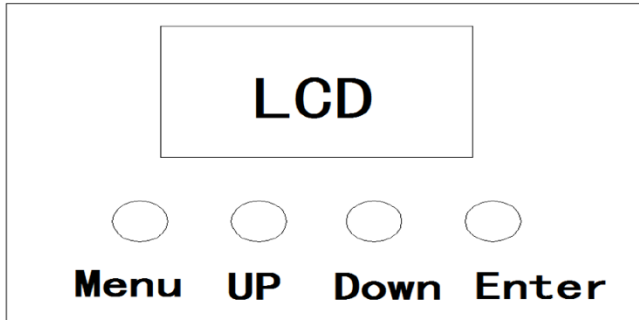Step 4: Replace the fuse holder in the housing and fix it.

Product Installation

- This fixture can be mounted in many orientations provided each individual fixture is secured by the use of correct mounting bracket.
- Use a safety chain when mounting this device overhead.

Dimensions

100

Ø170

202

245

218

348

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/sACN/ARTNET		
		PIXELS	FOLLOW FIXTURE/DMX/W-DMX/sACN/ARTNET/KLINGNET		
	DMX MODE	**FIXTURE**	STANDARD/EXTENDED		
		PIXELS	OFF/RING/PIXELS		
	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 (TX)	ON/OFF		
		WDMX TO DMX (RX)	ON/OFF		
	ETHERNET SETTING	ARTNET SETTINGS	FIXTURE	IP ADDRESS	
				NET	0
				SUBNET	0
				UNIVERSE	0
			PIXELS	IP ADDRESS	
				NET	0
				SUBNET	0
				UNIVERSE	0
		sACN SETTINGS	FIXTURE	IP ADDRESS	
				UNIVERSE	0
				MERGE MODE	OFF/HTP/LTP
			PIXELS	IP ADDRESS	

				UNIVERSE	0
				MERGE MODE	OFF/HTP/LTP
		ETHERNET TO DMX	ON		
			OFF		
		KLINGNET	ON		
			OFF		
Setup	**FIXTURE SETTINGS**	DMX FAULT	HOLD/BLACKOUT		
		TEMPERATURE UNIT	Fahrenheit /Celsius		
		HIBERNATION	OFF, 01M~99M(15MIN)		
		FAN MODE	AUTO/HIGH/SILENT		
		DIMMER CURVE	LINEAR/S-CURVE/SQUARE LAW/ INVERSE SQUARE LAW		
		DIMMER SPEED	AUTO/FAST/MEDIUM/SLOW		
		LED FREQUENCY	600HZ/1200 HZ/2000 HZ/4000 HZ/6000HZ/25KHZ/50KHz		
		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		
			TOTAL	(ONLY READ)	

		FIXTURE HOURS	PARTIAL	(READ AND RESET)	
INFORMATION	**FIXTURE TIME**	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...			
SERVICE	**RESET**	ALL			
		PAN & TILT			
		...			
	CALIBRATION	PASSWORD			
		PAN			
		...			
	MANUAL CONTROL	PAN			
		...			
	RELOAD DEFAULT	BASIC RELOAD	ON/OFF		
		PROGRAM RELOAD	ON/OFF		
		Password			

		FACTORY RELOAD	ON/OFF		
FACTORY	**RDM PID CODE**		xxx		
	LOCKING		PASSWORD		
			xxxHOURS		
			unlocking CODE		
	CALIBRATION		PASSWORD		
			PAN		
			...		
			ZOOM		
			FOCUS		
			GOBO 1 FOCUS	FOCUS	
			…		
			GOBO 8 FOCUS	FOCUS	
			GOBO 1 INDEX	INDEX	
			…		
			GOBO 8 INDEX	INDEX	
			…		
			MAX TEMPERATURE	80~139°C/176 ~282°C	
	Reset All Data		xxx		

DMX Chart

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: 26/38/8/28, if it's set to 26 channel mode, and there are several fixtures need to be independently controlled, we just simply address first fixture at 1, and second fixture at 27, third one at 53, etc.

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

Channel						Name	Function	Min DMX	Max DMX
V1.0.00									
Main Engine			Pixel Engine						
Basic	STD	EXT	OFF	Ring	Pixel				
1	1	1				Pan	Pan Coarse	0	255
2	2	2				Pan Fine	Pan Fine	0	255
3	3	3				Tilt	Tilt Coarse	0	255
4	4	4				Tilt Fine	Tilt Fine	0	255

5	5	5				XY Speed	fastest to Slowest	0	255
6	6	6				Dimmer	Dimmer (0->100%)	0	250
7	7	7				Dimmer Fine	Dimmer Fine (0->100%)	0	255
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
							Random from slow to fast	191	251
							Open	252	255
9	9	9				Red	Red	0	255
10	10	10				Red Fine	Red Fine	0	255
11	11	11				Green	Green	0	255
12	12	12				Green Fine	Green Fine	0	255
13	13	13				Blue	Blue	0	255
14	14	14				Blue Fine	Blue Fine	0	255
15	15	15				White	White	0	255
16	16	16				White Fine	White Fine	0	255
17	17	17				Color Macro	Color Macro	0	255
18	18	18				CTO	lineary from 2800K to 10000K	0	255
19	19	19				Zoom	0 - 100%	0	255
20	20	20				Zoom Fine	0 - 100%	0	255
21	21	21				Crossfade from Artnet to Klingnet	0 - 100%	0	255
22	22	22				Crossfade for Pixel Engine	0 - 100%	0	255
23	23	23				Crossfade from White to Color	0 - 100%	0	255
24	24	24				Control	No Function/Safe	0	1
							KLINGNET ON	2	3
							KLINGNET OFF	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
							HOME POSITION STANDARD	24	25
							HOME POSITION CUSTOM	26	27
							DISPLAY ON	28	29
							DISPLAY 10S	30	31
							DISPLAY 20S	32	33
							DISPLAY 30S	34	35
							FLIP DISPLAY ON	36	37
							FLIP DISPLAY OFF	38	39
							FLIP DISPLAY AUTO	40	41
							KEY LOCK ON	42	43
							KEY LOCK OFF	44	45
							FAN MODE AUTO	46	47
							FAN MODE SILENT	48	49
							FAN MODE HIGH	50	51
							WHITE CALIBRATION OFF	52	53
							WHITE CALIBRATION STUDIO	54	55
							Tungsten emulation on	56	57
							Tungsten emulation off	58	59
							NO SIGNAL HOLD	60	61
							NO SIGNAL BLACKOUT	62	63
							STATUS LED ON	64	65
							STATUS LED OFF	66	67
							DIMMER CURVE LINEAR	68	69
							DIMMER CURVE S-CURVE	70	71
							DIMMER CURVE SQUARE LAW	72	73
							DIMMER CURVE INVERSE SQUARE LAW	74	75
							DIMMER SPEED AUTO	76	77
							DIMMER SPEED FAST	78	79
							DIMMER SPEED MEDIUM	80	81
							DIMMER SPEED SLOW	82	83
							LED FREQUENCY 600HZ	84	85
							LED FREQUENCY 1200HZ	86	87
							LED FREQUENCY 2000HZ	88	89
							LED FREQUENCY 4000HZ	90	91
							LED FREQUENCY 6000HZ	92	93
							LED FREQUENCY 25KHZ	94	95

							LED FREQUENCY 50KHZ	96	97
							INVERT MAPPING ON	98	99
							INVERT MAPPING OFF	100	101
							RESET ALL	102	103
							RESET PAN/TILT	104	105
							RESET ZOOM	106	107
							Reserved	108	253
							FACTORY DEFAULT OF CONTROL FUNCTIONS	254	255
	25	25					CTO on colors	0 - 100%	0	255
	26	26					Tint	-25	0	127
								0	128	128
								+25	129	255
							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
		27						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

				4			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
		28				Pattern Speed	Indexing	0	127
							CW from fast to slow	128	190
							Stop	191	192
							CCW from slow to fast	193	255
		29				Pattern Fade	0 - 100%	0	255
		30				Pattern Transition	0 - 100%	0	255
		31				Foreground Intensity	0 - 100%	0	255
		32				Foreground Strobe	See Shutter/Strobe Channel	0	255
		33				Background Intensity	0 - 100%	0	255
		34				Background Strobe	See Shutter/Strobe Channel	0	255
		35				Background Red	0 - 100%	0	255
		36				Background Green	0 - 100%	0	255
		37				Background Blue	0 - 100%	0	255
		38				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	0 - 100%	0	255

						White				
				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
					1	Red 1	0 - 100%		0	255
					2	Green 1	0 - 100%		0	255
					3	Blue 1	0 - 100%		0	255
					4	White 1	0 - 100%		0	255
					5	Red 2	0 - 100%		0	255
					6	Green 2	0 - 100%		0	255
					7	Blue 2	0 - 100%		0	255
					8	White 2	0 - 100%		0	255
					9	Red 3	0 - 100%		0	255
					10	Green 3	0 - 100%		0	255
					11	Blue 3	0 - 100%		0	255
					12	White 3	0 - 100%		0	255
					…		0 - 100%		0	255
					25	Red 7	0 - 100%		0	255
					26	Green 7	0 - 100%		0	255
					27	Blue 7	0 - 100%		0	255
					28	White 7	0 - 100%		0	255

Technical Specifications

Photometrics

- Light Source: 7x OSRAM 40W 4-in-1 LEDs
- Beam Angle: 6°-50°
- Output: 1,322 lumen @ 6°, 2,320 lumen @ 50°
- LED Lifespan: 60,000 hours

Effects

- Dimming: 0-100%
- Pixel Control: Yes
- Strobe: 0.5-26 Hz
- Zoom: Motorised, 6°-50°

Movement

- 16-bit auto reposition
- Pan: 630° (3.04s) / 540° (2.61s)
- Tilt: 265° (1.03s)

Power

- Input Voltage: 100-240V AC, 50/60 Hz
- Power Consumption: 231W
- Connection: True1 in/out
- Fuse: T 3.15A, 250V

Control

- Operation Modes: DMX, auto, sound active, master/slave
- Control Protocol: DMX512, RDM, Art-Net (optional: W-DMX™)
- DMX Channels: 26/38/8/28
- 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

Housing

- Housing Materials: ABS and steel, matte black finish
- Cooling: Sensor controlled fan
- Net Weight: 7.4 kg
- Rigging: 2x Omega bracket with 1/4 turn quick locks
- Road Case: HAVOCW7X40C

Warranty

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