

HAVOCW19X40

19x 40W Zoom Wash Moving Head

USER MANUAL



For your safety, please read this user manual carefully before 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 1.0 (October 2023)

1. Product Introduction:

- 1.1 Before unpack the fixture, pls make sure that the packing is in good condition, following items will be found in the box:
- -The fixture
- -This users guide
- -3m DMX cable
- -1.5m power cable with powercon
- -Omega bracket for hanging installation
- -Safety chain

1.2 Specification

Source

Light source: 19pcs 40W 4in1 leds, PIXEL control

Led life: 60.000 hours

Luminous Flux: 6468 lumen, 110621 lux@3m@4°, 2355 lux@3m@54°

Control: Remote on/off via DMX

Ballast: switching mode power supply

Optical System

Beam angle: 4° to 54°

X/Y

Pan: 540°(3.32 sec), Tilt: 265° (1.57 sec)

16-bit resolution

Auto repositioning

Features

DMX channels: 19/26/38/23

- Super fast, smooth and silent movement
- Pixel control of every single led on RGBW separately
- Nice maping effect with dimming and color fading at the same time
- RGBW four colors mixing to create vivid, saturated and uniform color effect
- Pre-set color temperature at 2800K-10000K,
- Zoom from 4° to 54°
- Full range 0-100% dimmer
- Various strobe
- RDM function to change DMX address, display flip, X/Y Reverse and so on

- Software upgrade via DMX
- Hibernation when lost DMX for preset time
- Indicate temperature info of base
- Fan speed auto change according to temperature
- Heat pipe for cooling

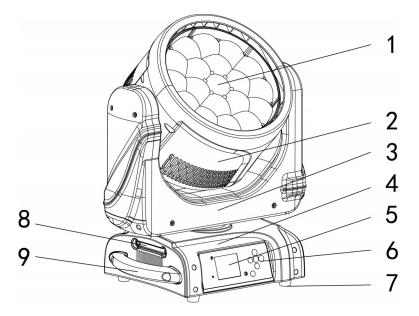
Display

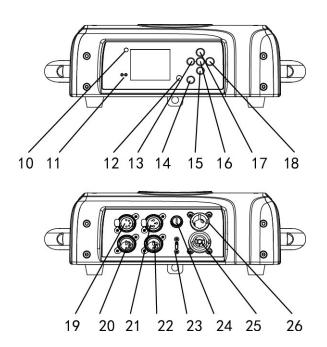
- 2.4inch super nice LCD display with friendly English/ Chinese/French/Spanish menu
- Auto lock and flip
- Flip

1.3 Description of the Device



- 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. Powercon out
- 26. Powercon in

2. Safety and maintenance Information

2.1 Safety Info

İ	Before operate this unit, please carefully read this users guide and keep if needed in future. It's
	necessary to respect following rules. The dispersal of the device of the lifecustic sould damage the environment, need to take it to special.
7	The disposal of the device after lifecycle could damage the environment, need to take it to special
X	company for recycling or return to authorized dealer.
	The products referred to in this manual conform to the European Community Directives and are
CE	therefore marked with CE logo.
A	Keep this device away from children and unauthorized users, the manufacturer will not take
!	
7	responsibility for the damage due to any disregard of the information provided in this manual and wrong operation.
A	Before operate the device, pls make sure the fixture is in good housing, ensure pan and tilt can rotate
<u>i</u>	in its complete range.
	Pls make sure minimal 0.3m distance need to kept between the fixture to any flammable material.
(]0.3m	Tis make sure minimal of similar distance need to kept between the fixture to any hammable material.
	The device can only run with 100-240v voltage, 50/60Hz power, don't connect to any other wrong
1	power. Disconnect the device from main power before open the shield or maintenance.
Λ.	The device is designed only for indoor usage, pls keep it away from moisture. Do not expose the
	device under the sun or directly to any other lighting source.
	Never look directly into the projecting lens when the fixture is power on, the light may trigger
	epileptic seizures in photosensitive persons or persons with epilepsy. Especially at beam effect,
**	extreme caution and observance of these safety instructions is mandatory.
	Don't put or install the device on a surface that subject to vibration or bumps.
T45°C	The device is supposed to work in the temperate range -15° C and +45° C, do not use the device
Ta=4 5℃	when the temperate exceed this range.
	The lens, shield need to be replaced when obviously broken, never use the device when the shield is
(1) (A) - (1) (A),	not completed closed.
<u>-</u>	Safety I class device, need to be earth connected.
	When the fixture is hanged overhead, the safety rope must be fixed to the bottom of the device to
8	the appropriate fixing point.
V	
	Always carry the device by the handles, do not take the head or arm directly for transportation.

2.2 Maintenance

- 2.2.1 Operation only allowed to qualified person, damages due to unprofessional operation or remove of any parts inside will not be considered in warranty service. There are no serviceable parts inside the device or package, service only leaves to authorized dealers.
- 2.2.3 Never allow the optical components contact with oil, fat or any other liquid.
- 2.2.4 A regular clearance of the device is needed for long-term usage, this is very helpful to maintain the lifetime and brightness need to use a soft and lint-free cloth to clean the optical system, fan and air flowing tunnel.

2.2.5. Trouble Shooting

Problems	Possible reasons	Checking or solutions
Device not power up	Powercon or power cable damaged	Change a good power cable to try
	Faulty power supply	Replace new power supply
Pan/Tilt error or vibrate	Faulty Pan/Tilt PCB	Replace PT012A PCB
	Faulty opto sensor	Replace opto sensor OP005
	Cable loosen	Check the cable connect to OP005
LED off	Temperature protection	Check the temperature from menu
	Fan not working	Check the fan speed info from menu
	Faulty LED	Replace new LED
	Dimmer and strobe set at 0	Set dimmer and strobe channel at 255
	Faulty power supply	Replace new power supply
Device not response to DMX	Faulty display PCB	Replace new display PCB
	Wrong DMX addressing	Check the address and setting
	Faulty DMX cable	Change to a good DMX cable

2.2.6 Replacement of the fuse

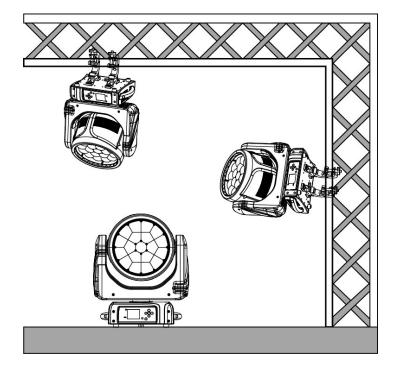
Need to replace with same type and rating, which originally installed in the device.

Step One: Unplug power cable from main power.

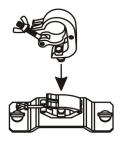
Step Two: Unscrew the fuse holder out of the housing with a screwdriver.

Step Three: Remove the broken fuse and replace with an exact same type of new fuse. Step Four: Insert the fuse holder back to the housing and screw tight and reconnect power.

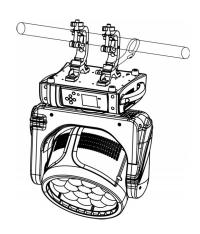
3. Installation



- 3.1 The device could be either put on a solid and even surface, or mounted upside down or sideways like left picture.
- 3.2 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







Step one: Installation the clamp onto the omega bracket;

Step two: Install the clamp and bracket on the bottom of panel, fasten the quick-locks;

Step three: Install the whole device onto appropriate truss and fasten the clamps, tight the safety rope with the truss or other fixing point at a suitable position that drop down distance not exceed 20 cm.

4. Control menu

4.1 Meaning of the icon in menu

CONNECT	LIGHT	INFOMATION	SET	PROGRAM
		i		

4.2 Menu tree

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

			daea, 😅 be program relodaea, 🤄	gean de pintate releaded.
	ADDDESS	FIXTURE	VALUE (1-512)(001)	
	ADDRESS	PIXELS	VALUE (1-512)(001)	
		FIXTURE	DMX/W-DMX	
	CONTROL PROTOCOL	PIXELS	FOLLOW FIXTURE/DMX/W-DMX	
CONNECT	DMX MODE	FIXTURE	BASIC/STANDARD/EXTENDE D	
		PIXELS	OFF/RING/PIXELS	
		WDMX ON/OFF	ON/OFF	
		WDMX MODE	TRANSMITTER/RECEIVER	
	WIRELESS	TX LINK	ON/OFF	
		TX UNLINK	ON/OFF	
		RX RESET	ON/OFF	

	7	1		1	
		IN TO WDMX	OFF/FIX TO WDMX/PIX TO WDMX		
		WDMX TO DMX	ON/OFF		
		DMX FAULT	HOLD/BLACKOUT		
		TEMPERATURE UNIT	Fahrenheit /Celsius		
		FAN MODE	AUTO/HIGH/SILENT		
		DIMMER CURVE	LINEAR/S-CURVE/SQUARE LAW/ INVERSE SQUARE LAW		
		DIMMER SPEED	AUTO/FAST/MEDIUM/SLOW		
	FIXTURE SETTINGS	LED FREQUENCY	600HZ/1200 HZ/2000 HZ/4000 HZ/6000HZ/25KHZ/50KHz		
		MENU LANGUAGE	En/Fr/Sp/简/繁 (En)		
		TRANSFER CONFIGURATIO	WITHOUT DMX ADDRESS		
Setup		N	WITH DMX ADDRESS		
		WHITE CALIBRATION	OFF/STUDIO		
		Tungsten emulation	ON/OFF		
		INVERT MAPPING	ON/OFF		
		PAN REVERSE	ON/OFF		
		TILT REVERSE	ON/OFF		
	MOVEMENT	PAN/TILT FEEDBACK	ON/OFF		
		PAN/TILT MODE	SLOW/MEDIUM/FAST		
		TOTEM MODE	OFF/UP/DOWN		
		BACKLIGHT	ON/10S/20S/30S		
	SCREEN	FLIP DISPLAY	ON/OFF/AUTO		
		KEY LOCK	ON/OFF		
			TOTAL	(ONLY READ)	
		EIVTUDE HOUDO			
		FIXTURE HOURS	PARTIAL	(READ AND RESET)	
		FIXTURE HOURS CURRENT	PARTIAL TOTAL	,	
INFORMATIO N	FIXTURE TIME			RESET)	
	FIXTURE TIME	CURRENT HOURS	TOTAL	(ONLY READ) (READ AND	
	FIXTURE TIME	CURRENT	TOTAL PARTIAL	(ONLY READ) (READ AND RESET)	

		CYCLE	PARTIAL	(READ AND RESET)		
		NEAR SOURCE				
	TEMPERATUR	TEMP, DRIVER				
	E	PCB TEMP, LED				
		PCB TEMP,				
		NEAR SOURCE				
	FAN SPEED	FAN, BASE				
	CHANNEL	FAN,				
	VALUE	PAN				
	ERROR MESSAGE	PAN, TILT				
	FIXTURE MODEL	xxxxxxxxx				
	RDM UID	(READ AND RESET)				
	SOFTWARE VERSION	1U01 V1.0.00				
		ALL				
	RESET	PAN & TILT				
		PASSWORD				
	CALIBRATION	PAN				
SERVICE	MANUAL	PAN				
CERTICE	CONTROL					
		BASIC RELOAD	ON/OFF			
		PROGRAM	ON/OFF			
	RELOAD	RELOAD	3.00.			
	DEFAULT	Password				
		FACTORY	ON/OFF			
		RELOAD				
		DMX Receive	Clave Dessites 4.0.0			
	Dlay(1)	Slave Receive	Slave Receive 1,2,3 Master / Alone			
	Play1	Sequence				
		Music Mic Sens	Master / Alone 0%~100%			
_		Chase Part 1	0%~100% Chase 1 ~ 8 Chase 1			
Program	Select Chase②	Chase Part 2	Chase 1 ~ 8 Chase 2			
ogi	JCICCI CHASE	Chase Part 3	Chase 1 ~ 8 Chase 3			
Ţ		Chase 1	Chase Test			
		311400 1			=xx	
	Edit Chase②	:	Step 01		X	
		Chase 8	Step 64			

		Edit Scene 001	Don Till	=xx
	Edit Scenes②	Edit Scene 001	Pan,Tilt,	Х
		~ Edit Scene 250	Fade Time	=xx
		Edit occiic 250	add fillio	
			Secne Time	=xx
			Could Time-	Χ
			DMX Input	
	Scenes Record	ScXX=>ScXX		

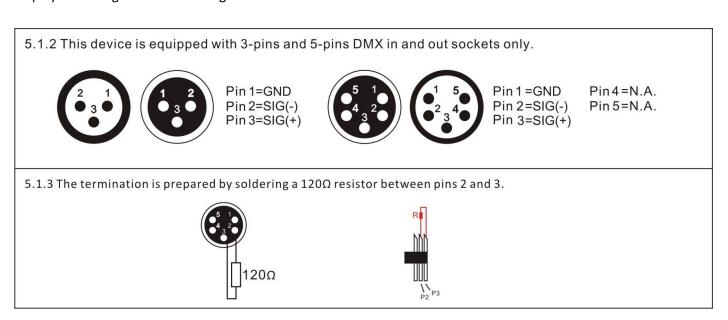
5. DMX connection and DMX protocol

5.1 DMX addressing:

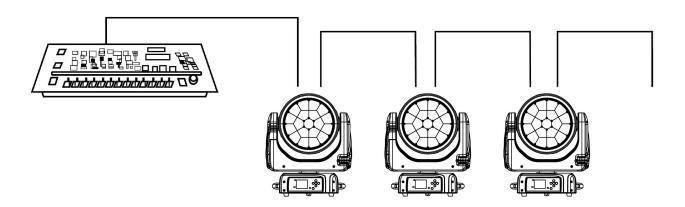
5.1.1 The device is controlled by universal DMX 512 protocol, DMX address is the start channel used to receive instructions from the external controller. For independent control, each fixture must be assigned its unique address control channels. For example, this device has four channel modes: 19/26/38/23, if we set the mode at standard 19 channels mode, and there are several models need to be independently controlled, we just simply address first fixture at 1, and second fixture at 20, third one at 39, etc.

If the devices have the same address, they will behave synchronically.

DMX addressing is limited, don't set the address so high that without enough control channels for the fixtures. Display is flashing when no DMX signal is received.



5.1.4 Connection: use DMX cable with 3+5 pin XLR-plugs to connect the controller with the fixture or one fixture with ano



5.2 DMX chart

		C	Channe	el						
		\	/1.0.00)			name			
Ma	in Engi	ne		Pix	kel Eng	ine		function	Min DMX	Max DMX
Basic	STD	EXT	Basic 2	OFF	Ring	Pixel			DIVIX	DIVIX
1	1	1	1				Pan	Pan Coarse	0	255
2	2	2	2				Pan Fine	Pan Fine	0	255
3	3	3	3				Tilt	Tilt Coarse	0	255
4	4	4	4				Tilt Fine	Tilt Fine	0	255
5	5	5	5				XY Speed	fastest to Slowest	0	255
6	6	6	6				Dimmer	Dimmer(0->100%)	0	250
7	7	7	7				Dimmer Fine	Dimmer Fine(0->100%)	0	255
								Close	0	1
								Strobe from slow to fast	2	62
								Open	63	64
								Pulse in from slow to fast	65	125
8	8	8	8				Shutter/Strobe	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				Red	Red	0	255
	10	10	10				Red Fine	Red Fine	0	255
10	11	11	11				Green	Green	0	255

	12	12	12		Green Fine	Green Fine	0	255
11	13	13	13		Blue	Blue	0	255
	14	14	14		Blue Fine	Blue Fine	0	255
12	15	15	15		White	White	0	255
	16	16	16		White Fine	White Fine	0	255
13	17	17	17		Color Macro	Color Macro	0	255
14	18	18			сто	lineary from 2800K to 10000K	0	255
						Close	0	1
			18		СТО	lineary from 2800K to 10000K	2	255
15	19	19	19		Zoom	0 - 100%	0	255
	20	20	20		Zoom Fine	0 - 100%	0	255
16	21	21			Crossfade from Artnet to Klingnet	0 - 100%	0	255
17	22	22			Crossfade for Pixel Engine	0 - 100%	0	255
18	23	23			Crossfade from White to Color	0 - 100%	0	255
						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		
19	24	24	21		Control	OFF	22	23
			۷ ۱		Control	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 off 58 59 Tungsten emulation off 58 59 NO SIGNAL HOLD 60 61 NO SIGNAL HOLD 60 61 NO SIGNAL BLACKOUT 62 63 Reserved 66 67 DIMMER CURVE LINEAR 68 69 DIMMER CURVE LINEAR 68 69 DIMMER CURVE SOLURE LAW 72 73 DIMMER CURVE NIVERSE SQUARE LAW 72 73 DIMMER CURVE NIVERSE SQUARE LAW 74 75 DIMMER SPEED AFOT 76 DIMMER SPEED AFOT 78 79 DIMMER SPEED AFOT 88 88 LED FREQUENCY 600HZ 84 85 LED FREQUENCY 600HZ 86 87 LED FREQUENCY 2000HZ 86 87 LED FREQUENCY 90 SOURL 88 89 LED FREQUENCY 90 SOURL 99 91 LED FREQUENCY 90 SOURL 99 91 LED FREQUENCY 500HZ 92 93 LED FREQUENCY 500HZ 92 93 NIVERT MAPPING ON 98 99 NIVERT MAPPING OFF 100 101 RESET ALL RESET ZOOM 106 107 Reserved 108 253 FACTORY DEFAULT OF CONTROL FUNCTIONS 254 255 LED FREQUENCY 500HZ 129 255 LED FREQUENCY 500HZ 129 255 LED FREQUENCY DEFAULT OF CONTROL FUNCTIONS 254 255 LED FREQUENCY DEFAULT OF					www.event-lighting	ng.com.au		
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2000HZ							00	01
LED FREQUENCY 4000HZ 90 91						·	88	80
A000HZ 90 91							00	
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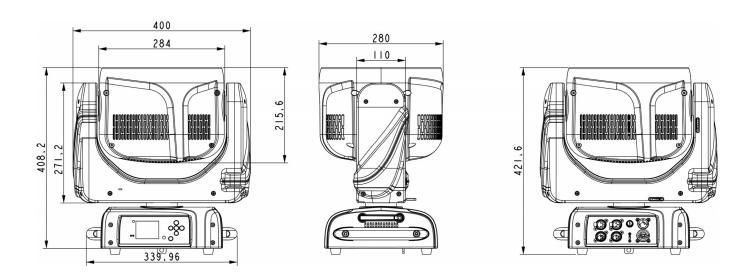
					FX 1	17	22
					FX 2	23	28
					FX 3	29	34
					FX 4	35	40
					FX 5	41	46
					FX 6	47	52
					FX 7	53	58
					FX 8	59	64
					FX 9	65	70
					FX 10	71	76
					FX 11	77	82
					FX 12	83	88
					FX 13	89	94
					FX 14	95	100
					FX 15	101	106
					FX 16	107	112
					FX 17	113	118
					FX 18	119	124
					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
					Indexing	0	127
	28			Pattern Speed	CW from fast to slow	128	190
	20			. alloin opood	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		
32			Foreground Strobe	Channel	0	255
33			Background Intensity	0 - 100%	0	255
34			Background Strobe	See Shutter/Strobe		
34			Background 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 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
		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
		73	Red 19	0 - 100%	0	255
		74	Green 19	0 - 100%	0	255
		75	Blue 19	0 - 100%	0	255
		76	White 19	0 - 100%	0	255

6. Unique Features

- 6.1 RDM, stand 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 before left factory to distinguish from each other, usually not suggest users change this code freely.
- 6.2 Software upgrade function via DMX cable, if there is any new firmware for this device come out, 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 pls just contact authorized dealers.
- 6.3 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.
- 6.4 Display battery, this function is prepaid in the display PCB, users just need to install a normal 10440 600mAh 3.7V rechargeable lithium battery, then users could power on the display and do setting without connect to main power.
- 6.5 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.

7. Dimensions Drawing



8. Technical specification

Power supply	100-240 V AC, 50/60 Hz ~
Power consumption	560W
LED	19pcs 40W 4in1 leds
DMX channels	19/26/38/23 ch
Beam angle	4°- 54°
Luminous flux	6468 lumen, 110621 lux@3m@4°, 2355 lux@3m@54°
Fuse	T 8 A, 250 V
Device dimensions	400*421*280mm
Net Weight	15.5KG

Warranty

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