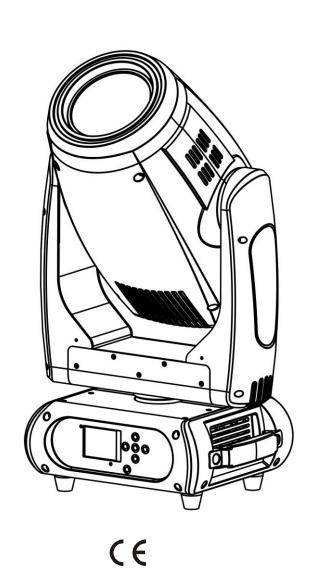
BEAM SPOT WASH 3IN1 HEAD USERS GUIDE



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: Osram Sirius HRI 280W discharge lamp

Led life: 2.000 hours

Luminous Flux: 12000lumen, 325000lux@10m

Control: Remote on/off via DMX

Ballast: switching mode power supply

Optical System

Beam angle: 2°-10° beam, 5.5°-23°spot

X/Y

- Pan: 630° (3.85 sec) or 540°(3.47 sec), Tilt: 265° (2.06 sec)
- 16-bit resolution
- Auto repositioning

Colors

- 13+open, interchangeable, indexable and bidirectional rainbow effect
- New color bounce effect

Gobos

- Rotating gobo wheel: 9(galss)+open
- Static gobo wheel:14+open
- Real indexable and gobo shaking
- Distinctive gobo animation effect

Features

DMX channels: 20/23/14/16

Color wheel: 13+1 colors

Rotating gobo wheel: 9+1 gobos

Static gobo wheel:14+open

Zoom: 2°-10° beam, 5.5°-23°spot

- Motorized focus
- Full range 0-100% dimmer
- Various strobe
- Frost
- 6-Linear+ 8 facets prism
- RDM function to change DMX address, display flip, X/Y Reverse and so on
- RDM read voltage, current and power consumption of lamp
- Software upgrade via DMX
- Hibernation when lost DMX for preset time

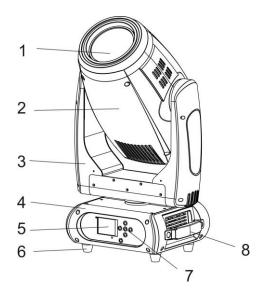
- Indicate temperature info of base, arm and lamp
- Fan speed auto change according to temperature

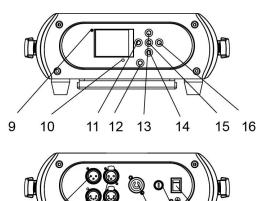
Display

- 2.4inch super nice LCD display with friendly English/ Chinese/French/Spanish menu
- Auto lock
- Flip
- Back-up communicating IC

1.3 Description of the Device

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

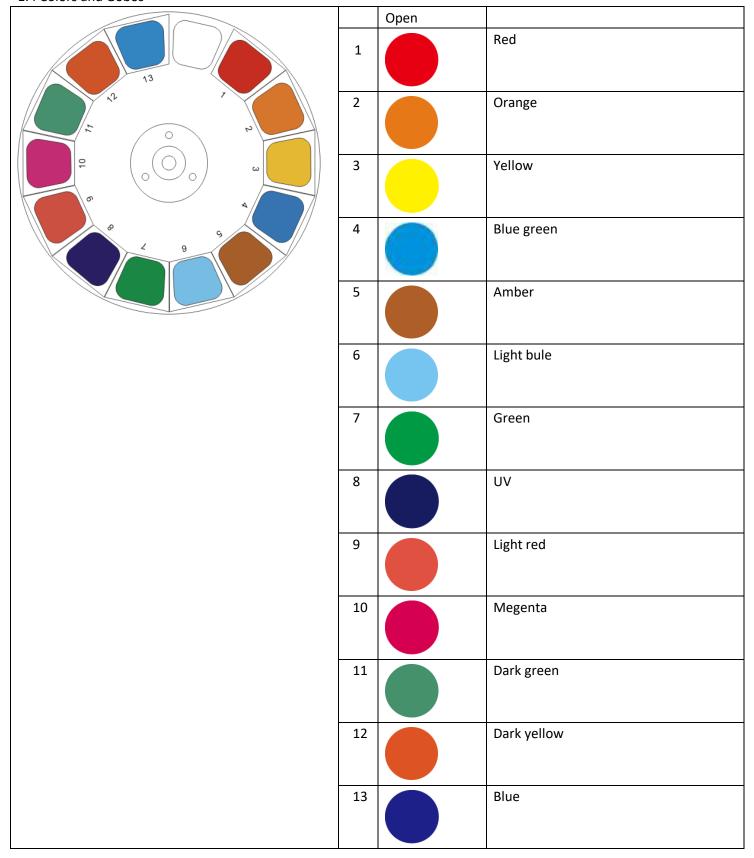


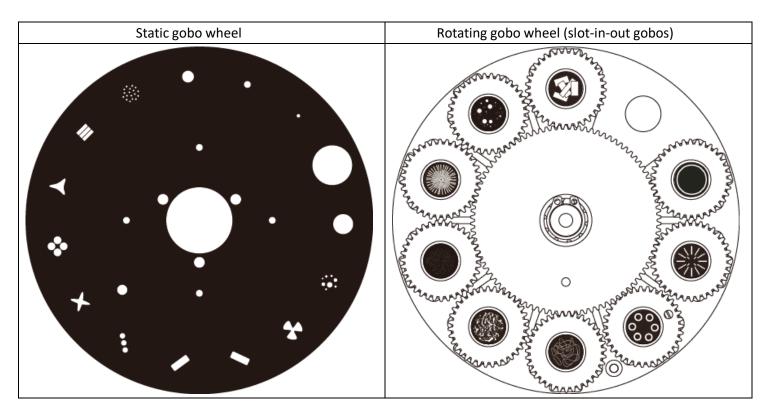


17 18 19 20 21 22 23

- 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. Fuse
- 23. Switch

1.4 Colors and Gobos





2. Safety and maintenance Information

2.1 Safety Info

The lens, shield need to be replaced when obviously broken, never use the device when the shield is not completed closed.
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 the appropriate fixing point.
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 PT004 PCB
	Faulty opto sensor	Replace opto sensor OP001
	Cable loosen	Check the cable connect to OP001
Lamp off	Temperature protection	Check the temperature from menu
	Fan not working	Check the fan speed info from menu
	Faulty Lamp	Replace new Lamp
	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 communication IC	Replace the IC with back-up one in the display PCB
	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

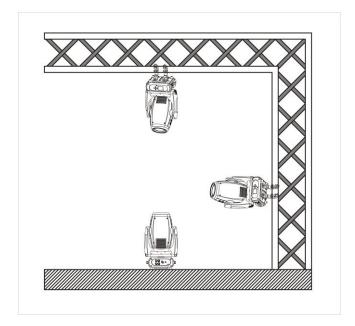
Need to replace with same type and rating, which originally installed in the device.

Step One: Unplug power cable from main power.

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

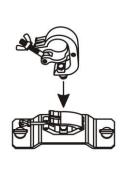
Step Three: Remove the broken fuse and replace with an exact same type of new fuse. Step Four: Insert the fuse holder back to the housing and screw tight and reconnect power.

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

3.3 How to do mounting installation.







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
		j		

4.2 Menu tree

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

Connect	DMX Address①	XXX	<u> </u>	DMX address setting		
Con	Wireless ①		Wireless Enabled			
	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		
Light	Max Temperature ①	80~139℃, 125℃ /176~282	°F, 257°F	Lamp off if		
Lig				temperature		
				continuously over for 5		
				minutes		
	Lamp Adjust①	PAN		Adjust value of channel		
	Time Info.	Current XXXX(Hours		Fixture boot time		
		Fixture Life XXXX(Hours)		Fixture total run time		
		Lamp Life XXXX(Hours)		Lamp total run time		
	Lamp Info.	Voltage		HID Lamp Information		
_		Current				
Information		Power				
ma	Temperature		ds on fixture)	Temperature Sensors		
for	Fans Speed		on fixture)	Fan speed Sensors		
<u></u>	Channel Value	PAN	Display value of			
	Гинаи Массада	Dan Tilk	channel Error channels			
	Error Message Fixture Model	Pan,Tilt				
	rixture Model	Display model brand and model				
	Software Ver	1U01 V1.0.00	Version of each IC			
	Reset	All	Reset all			
	Neset	Pan&Tilt	Reset Pan&Tilt			
		Shutter		Reset Shutter		
		Colors				
		Gobos		Reset Colors Reset Gobos		
		Others	Reset Others			
	Movment	Pan Reverse①	ON/OFF	Pan Reverse		
		Tilt Reverse①	ON/OFF	Tilt Reverse		
		Pan Degree①	630/540	Choose Pan Degree		
		Encoders ①	ON/OFF	Encoder wheel on/off		
Set		Pan/Tilt Mode①	Stand/Smooth	Choose pan/tilt mode		
	UI Set	Mic Sens. ③	0~99%,60%	Sensitivity of Mic		
		No Signal ①	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		
		Hibernation ①	OFF, 01M~99M,15M	Sleeping mode		
		Backlight ①	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/OF	F	Key lock on/off	
		Language③		En/简/	> 繁/Fr/Sp	Language Select	
	Users	User Mode①		Standar	d	Standard mode	
				Extende	d	Extended mode	
				Basic-8b	oit	Basic mode-8bit	
				Basic-16	bit	Basic mode-16bit	
				User		User program mode	
		Edit User③		Max Cha	annel = XX	Edit users mode	
				PAN = C	H01		
				:			
	Calibration③	-Password-		=XXX		Password: 050	
		Color		=XXX		Calibrate channel value	
		:		:			
	Fixture ID③	Name				Name	
		-Password-				Password: 050	
		PID Code				Set PID of RDM	
	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	1	ON/OFF		All Reload	
	Play①	DMX Receive				DMX Receive	
				Receive 1,2,3		Choose slave position	
		·		r / Alone		Run Sequence	
		Music		r / Alone		Music mode	
	Select Chase②	Chase Part 1	Chase 1		ase 1	Select and run auto	
		Chase Part 2 Chase				program	
	- W1 (-)	Chase Part 3	Chase 1		lase 3		
E	Edit Chase②	Chase 1	Chase T			Test	
gr		:	Step 01		=SCxxx	Beginning scene	
Prograi		Chase 8	Step 64		=SCxxx	Ending scene	
	Edit Scenes②	Edit Scene 001	Pan,Tilt	•	=xxx	Input manual scene	
		~ Edit Scene 250	Fade T		=xxx	Modify manually fading	
			Secne		=xxx	time	
			DMX In	put		Modify manually scene	
						time	
						Input scene from	
						exterior controller	
	Scenes Record	ScXX=>ScXX				Auto Input scenes	

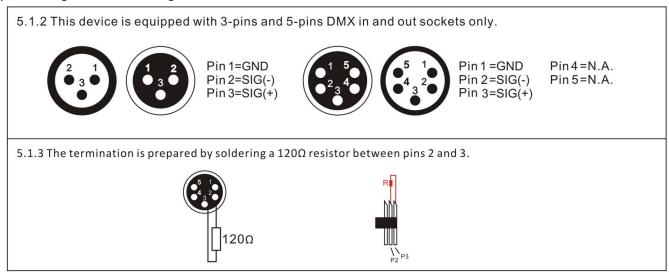
5. DMX connection and DMX protocol

5.1 DMX addressing:

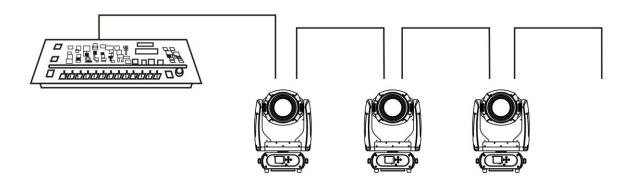
5.1.1 The device is controlled by universal DMX 512 protocol, DMX address is the start channel used to receive instructions from the external controller. For independent control, each fixture must be assigned its unique address control channels. For example, this device has four channel modes: 20/24/14/16, if we set the mode at standard 20 channels mode, and there are several models need to be independently controlled, we just simply address first fixture at 1, and second fixture at 21, third one at 41, 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: us DMX cable with 3+5 pin XLR-plugs to connect the controller with the fixture or one fixture with another.



5.2 DMX chart

	Channel			namo	function	Min	Max
St	Ex	Ba1	Ba2	name	Tunction	DMX	DMX
1	1	1	1	Pan	Pan Coarse	0	255
	2		2	Pan fine	Pan Fine	0	255
2	3	2	3	Tilt	Tilt Coarse	0	255
	4		4	Tilt fine	Tilt Fine	0	255
3	5	3	5	Movment Speed	fastest to Slowest	0	255
				Movment	Normal	0	15
	6			Function	Movement With Backout	16	31
				Tunction	TBD	32	255
					Normal Shutter Functions	0	15
				Shutter	Pulse-effect Forward	16	31
4	4 7		Function	Pulse-effect Reverse	32	47	
				Function	Random Strobe	48	63
					TBD	64	255

					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																	
				1	Open	224	255																	
5	8			Shutter	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																		
					Shutter closed	0	31																	
			4 6					No function (shutter open)	32	63														
																						Strobe effect slow to fast	64	95
										No function (shutter open)	96	127												
		4		Shutter	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																	
6	9	5	7	Dimmer	Dimmer(Close to Open)	0	255																	
			,	2	Indexed	0	15																	
					Indexed With BackOut	16	31																	
					Forward Spin	32	47																	
7	10			Color	Reverse Spin	48	63																	
′				Function	Continuous	64	79																	
					Color Bounce	80	111																	
					TBD	112	255																	
					Indexed & Indexed With BackOut&Color Bounce	-14																		
					Position 1 (Open)	0	8																	
					Position 2 ~ Position 28	9	255																	
					Forward Spin																			
8	11			Color	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	1																	
		6	Q	8 Color	Position 2 ~ Position 14	2	27																	
		J			Indexed With Backout																			
				Position 1 (Open)	28	29																		
					1 osition 1 (open)	20	23																	

					Position 2 ~ Position 14	30	55
					Indexed With Bounce		
					Position 1	56	67
					Position 2 ~ Position 14	68	223
					Forward Wheel Spin		
					Stop to fastest	224	239
					Reverse Wheel Spin		
					Stop to fastest	240	255
					Indexed	0	15
					Indexed With BackOut	16	31
					Forward Spin	32	47
9	12			Rot Gobo	Reverse Spin	48	63
				Function	Continuous	64	79
					Shake	80	95
					TBD	96	255
					Indexed & Indexed With Backout&Shake		
					Position 1 (Open)	0	3
					Position 1 (Spot Open)	4	25
					Position 2 ~ Position 10	26	255
					Forward Wheel Spin		233
10	13			Rot Gobo	Stop to fastest	0	255
					Reverse Wheel Spin		233
					Stop to fastest	0	255
					Continuous		233
					Positioning from 0-360 degrees	0	255
					Indexed		233
					Position 1 (Open)	0	1
					Position 1 (Spot Open)	2	4
					Position 2 ~ Position 10	5	48
					Indexed With Backout	,	40
					Position 1 (Open)	49	50
					Position 1 (Spot Open)	51	53
		7	9	Rot Gobo	Position 2 ~ Position 10	54	97
		,	9	KOL GODO	Indexed With Shake	54	97
					Position 2	98	111
					Position 2 Position 10	112	223
						112	223
					Forward Wheel Spin	224	220
					Stop to fastest	224	239
					Reverse Wheel Spin	240	255
					Stop to fastest	240	255
					Continuous Forward Spin	16	15
				Cala - Day	Forward Spin	16	31
11	14			Gobo Rot	Reverse Spin	32	47
				Function	Forward Animate Rotate	48	63
					Forward Animate Rotate With Backout	64	79
					Reverse Animate Rotate	80	95

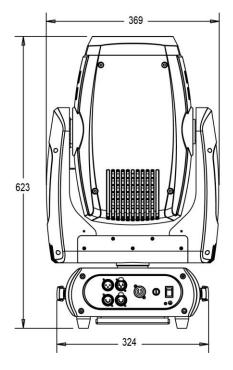
					Reverse Animate Rotate With Backout	96	111				
					TBD	112	255				
					Continuous						
					Positioning from 0-360 degrees	0	255				
					Forward Spin						
					Stop to fastest	0	255				
					Reverse Spin						
12	15			Caba Dat	Stop to fastest	0	255				
12	15			Gobo Rot	Forward Animate Rotate & Forward Animate Rotate With						
					Backout						
					Stop to fastest	0	255				
					Reverse Animate Rotate & Reverse Animate Rotate With						
					Backout						
					Stop to fastest	0	255				
					Continuous						
					Positioning from 0-360 degrees	0	191				
					Forward Animate Rotate						
					Stop to fastest	192	207				
			8 10		Reverse Animate Rotate						
		8		8 10	8 10	8 10	10	Gobo Rot	Stop to fastest	208	223
					Forward Spin						
				Stop to fastest	224	239					
			Reverse Spin								
					Stop to fastest	240	255				
					Indexed	0	15				
					Indexed With BackOut	16	31				
				Calaa	Forward Spin	32	47				
13	16			Gobo	Reverse Spin	48	63				
				Function	Continuous	64	79				
					Shake	80	95				
					TBD	96	255				
					Indexed & Indexed With Backout&Shake						
					Position 1 (Open)	0	16				
					Position 2 ~ Position 15	17	255				
				Fixed	Forward Wheel Spin						
14	17			Gobo	Stop to fastest	0	255				
				GODO	Reverse Wheel Spin						
					Stop to fastest	0	255				
					Continuous						
					Positioning from 0-360 degrees	0	255				
					Indexed						
	9 11				Position 1 (Open)	0	2				
		O	11	Fixed	Position 2 ~ Position 15	3	48				
		Gobo	Indexed With Backout								
					Position 1 (Open)	49	51				
					Position 2 ~ Position 15	52	97				

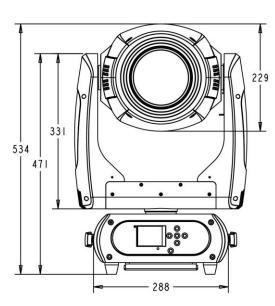
1					Indexed With Shake								
					Position 2	98	107						
					Position 3 ~ Position 15	108	223						
					Forward Wheel Spin								
					Stop to fastest	224	239						
					Reverse Wheel Spin								
					Stop to fastest	240	255						
					Indexed & Indexed With Backout								
					Position 1 (Open)	0	63						
15	18	10	12	Prism	Position 2	64	127						
					Position 3	128	191						
					Position 4	192	255						
					Continuous								
					Positioning from 0-360 degrees	0	191						
					Forward Spin								
16	19	11	13	Prism Rot	Stop to fastest	192	223						
				Reverse Spin									
					Stop to fastest	224	255						
											Continuous	0	15
					5m Auto Focus	16	31						
	17 20		Focus	7.5m Auto Focus	32	47							
17				10m Auto Focus	48	63							
				Function	15m Auto Focus	64	95						
					>20m Auto Focus	96	127						
					TBD	128	255						
					Continuous								
			12		Focus In to Focus Out	0	255						
18	21	12	14	Focus	Auto Focus								
					Focus In to Focus Out Fine	0	255						
					Continuous								
					Zoom Small to Big	0	255						
19	22	13	15	Zoom	Auto Focus								
					Zoom In to Zoom Out Fine	0	255						
					Normal	0	7						
					Reset All	8	15						
					Pan&Tilt Reset	16	23						
					Color Reset	24	31						
					Gobo Reset	32	39						
					TBD	40	47						
20	23	14	16	Control	Other Reset	48	55						
		14			Display Off	56	63						
					Display On	64	71						
					Lamp Off	72	79						
					Lamp On	80	87						
					Hibernation	88	95						
					TBD	96	255						

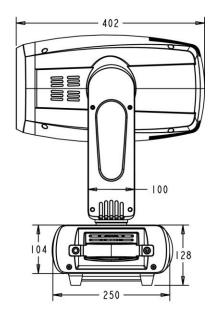
6. Unique Features

- 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 back-up communication IC, there is a back-up communication IC installed in the display PCB, so users could replace at once if the working one is broken, no need to wait long time from service.
- 6.6 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 , 50/60 Hz ~
Power consumption	430W
LAMP	Osram Sirius HRI 280W discharge lamp
DMX channels	20/24/14/16 modes
Beam angle	2°-10° beam, 5.5°-23°spot
Luminous flux	12000lumen, 325000lux@10m
Fuse	T 5 A, 250 V
Device dimensions	369x402x623mm
Net Weight	17KG