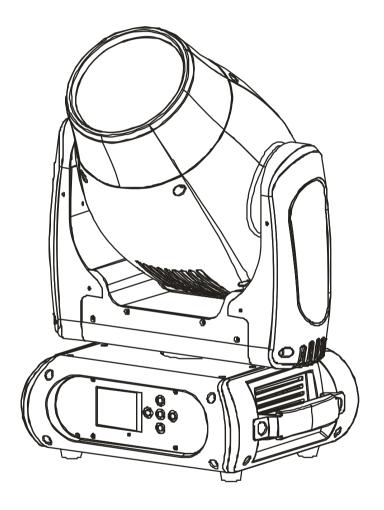
LED BEAM HEAD USERS GUIDE



CE

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 230W discharge lamp
- Led life: 3.000 hours
- Luminous Flux: 10150lumen, 61200lux@20m
- Control: Remote on/off via DMX
- Ballast: switching mode power supply

Optical System

• Beam angle: 1.3°

X/Y

- Pan: 360° (4.0 sec) or 540°(3.58 sec), Tilt: 265° (2.8 sec)
- 16-bit resolution
- Auto repositioning

Colors

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

Gobos

- 8+ open custom interchangeable position for rotating gobo wheel
- Real indexable and gobo shaking
- Distinctive gobo animation effect

Features

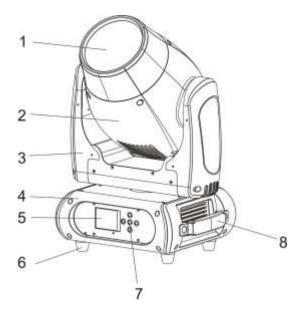
- DMX channels: 16/19/12/14
- Color wheel: 14+1 colors
- Rotating gobo wheel: 8+1 gobos
- Motorized focus
- Full range 0-100% dimmer
- Various strobe
- Rotating Effect wheel with 3 facets,8 facets prism and frost
- RDM function to change DMX address, display flip, X/Y Reverse, show lamp voltage, current and power consumption info.
- 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

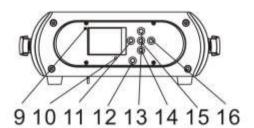
Display

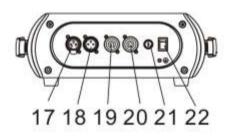
- 2.4 inch super nice LCD display with friendly English/ Chinese/French/Spanish menu
- Auto lock
- Flip
- Back-up communicating IC

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

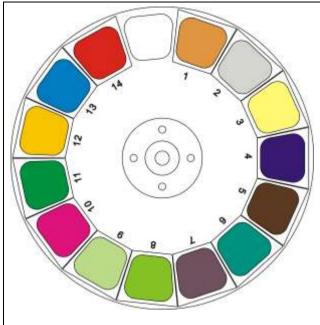




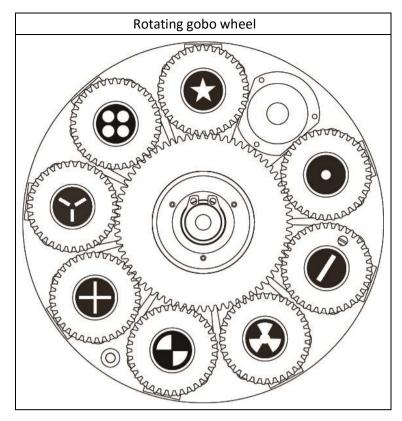


- 9. Wireless indicator
- 10. Mic
- 11. Left button
- 12. Battery indicator
- 13. Up button
- 14. Down button
- 15. Enter button
- 16. Right button
- 17. 3-pin DMX in
- 18. 3-pin DMX out
- 19. Powercon in
- 20. Powercon out
- 21. Fuse
- 22. Power switch

1.4 Colors and Gobos



1	Open	
2		Tan
3		СТВ
4		Yellow
5		Shallow purple
6		Brown
7		Blue green
8		Purple red
9		Grass green
10		UV
11		Megenta
12		Green
13		Orange
14		Blue
15		Red



2. Safety and maintenance Information

2.1 Safety Info

Before operate this unit, please carefully read this users guide and keep if needed in future. It's
necessary to respect following rules.
The disposal of the device after lifecycle could damage the environment, need to take it to special
company for recycling or return to authorized dealer.
The products referred to in this manual conform to the European Community Directives and are
therefore marked with CE logo.
Keep this device away from children and unauthorized users, the manufacturer will not take
responsibility for the damage due to any disregard of the information provided in this manual and
wrong operation.
Before operate the device, pls make sure the fixture is in good housing, ensure pan and tilt can rotate
in its complete range.
Pls make sure minimal 0.5m distance need to kept between the fixture to any flammable material.
The device can only run with 100-240v voltage, 50/60Hz power, don't connect to any other wrong
power. Disconnect the device from main power before open the shield or maintenance.
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.
The device is supposed to work in the temperate range -15°C and +45°C, do not use the device

	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.
ł	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 PT001 PCB
	Faulty opto sensor	Replace opto sensor OP001
	Cable loosen	Check the cable connect to OP001
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 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.

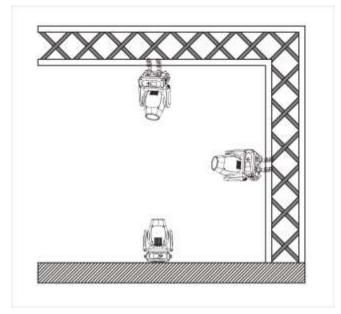
Step One: Unplug power cable from main power.

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.

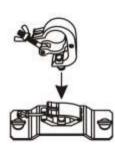
3. Installation



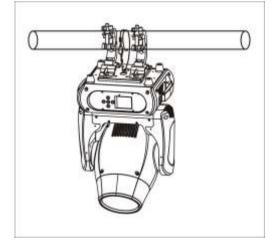
3.1 The device could be either put on a solid and even Surface, or mounted upside down or sideways like left picture.

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
		Ţ	12	

4.2 Menu tree

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

Conn ect	DMX Address①	xxx		DMX address setting		
	Turn On/Off	ON/OFF	N/OFF			
	Automatic	natic ON/OFF				
	DMX Control	ON/OFF	DMX control or not			
Light	Max Temperature①	80~139℃, 125℃ /176~282	2°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	5)	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				
tion		Power				
Information	Temperature		ds on fixture)	Temperature Sensors		
orr	Fans Speed	Near Lamp Fan (depends	s on fixture)	Fan speed Sensors		
Inf	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			
	Reset	All	Reset all			
		Pan&Tilt		Reset Pan&Tilt		
		Shutter	Reset Shutter			
		Colors	Reset Colors			
		Gobos	Reset Gobos			
	N A a a a a b	Others	011/055	Reset Others		
	Movment	Pan Reverse①	ON/OFF	Pan Reverse		
		Tilt Reverse① Pan Degree①	ON/OFF 630/540	Tilt Reverse		
		Encoders	ON/OFF	Choose Pan Degree Encoder wheel on/off		
		Pan/Tilt Mode①	Stand/Smooth	Choose pan/tilt mode		
Set	UI Set	Mic Sens. ③	0~99%,60%	Sensitivity of Mic		
Š	01301	No Signal	Close/Hold/Auto/Music	Mode when no signal		
		Temperature. C/F①	Fahrenheit /Celsius	Temperature at $^{\circ}C/^{\circ}F$		
		Fans Mode(1)	Auto Speed /High Speed	Fans mode		
		Hibernation (1)	OFF, 01M~99M,15M	Sleeping mode		
		Backlight ①	02~60m 02m	Show backlight time		
		Flip Display(1)	ON/OFF	Display 180° reverse		
		Display Bright ³	00~31 10	Display Brightness		
		Brand Show①	ON/OFF	Show brand or not		
		Key Lock①	ON/OFF	Key lock on/off		
		Language ^③	En/简/繁/Fr/Sp	Language Select		

	Users	User Mode①	S	tandar	t	Standard mode
			E	xtende	d	Extended mode
			В	asic-8b	it	Basic mode-8bit
			В	Basic-16	bit	Basic mode-16bit
			U	Jser		User program mode
		Edit User③	N	/lax Cha	annel = XX	Edit users mode
			Р	AN = C	H01	
	Calibration ③	-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) C)N/OFF		Program Reload
		Password Private Reload(③) All Reload		XXX ON/OFF		Password: 050
						Private Reload
)N/OFF		All Reload
	Play(1)	DMX Receive				DMX Receive
		Slave Receive	Slave Rec	eive 1,2	2,3	Choose slave position
		Sequence	Master /	1aster / Alone		Run Sequence
		Music Master		Alone		Music mode
	Select Chase ²	Chase Part 1	Chase 1 ~	nase 1 ~ 8 Chase 1 nase 1 ~ 8 Chase 2		Select and run auto
		Chase Part 2	Chase 1 ~			program
		Chase Part 3 Chase		1 ~ 8 Chase 3		
E	Edit Chase ^②	Chase 1	Chase Te	st		Test
ogram		:	Step 01		=SCxxx	Beginning scene
		Chase 8	Step 64		=SCxxx	Ending scene
Ы	Edit Scenes ²	Edit Scene 001	Pan,Tilt,		=xxx	Input manual scene
		~ Edit Scene 250	Fade Tir	me	=xxx	Modify manually fading
			Secne T	ïme	=xxx	time
			DMX Inpu	ut		Modify manually scene
						time
						Input scene from
						exterior controller
	Scenes Record	ScXX=>ScXX				Auto Input scenes

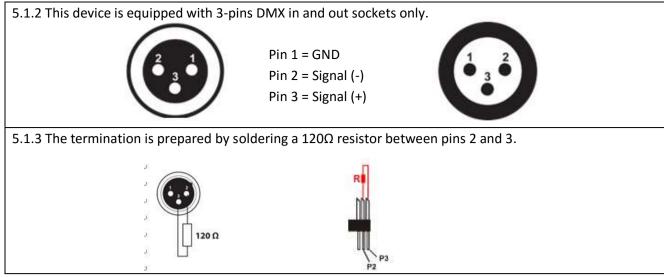
5. DMX connection and DMX protocol

5.1 DMX addressing:

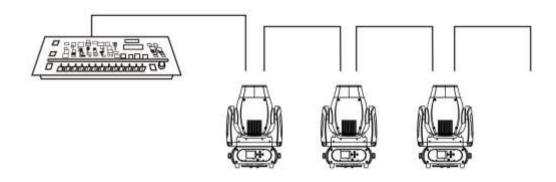
5.1.1 The device is controlled by universal DMX 512 protocol, DMX address is the start channel used to receive instructions from the external controller. For independent control, each fixture must be assigned its unique address control channels. For example, this device has four channel modes: 16/19/12/14, if we set the mode at standard 16 channels mode, and there are several models need to be independently controlled, we just simply address first fixture at 1, and second fixture at 17, third one at 33, 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-pin XLR-plugs to connect the controller with the fixture or one fixture with another.



5.2 DMX chart

	Channel		name function		Min DMX	Max DMX		
St	Ex	Ba1	Ba2					
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	
					Normal	0	15	
	6			Movment	Movement With Backout	16	31	
				Function	TBD	32	255	
					Normal Shutter Functions	0	15	
				Chuttor	Pulse-effect Forward	16	31	
4	7				Shutter Function	Pulse-effect Reverse	32	47
				FUNCTION	Random Strobe	48	63	
					TBD	64	255	
5	8			Shutter	Normal Shutter Functions			
5	0			Shutter	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	
					Shutter closed	0	31	
					No function (shutter open)	32	63	
					Strobe effect slow to fast	64	95	
					No function (shutter open)	96	127	
		4	6	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	
0	5		,	Diminer	Indexed	0	15	
					Indexed With BackOut	16	31	
					Forward Spin	32	47	
7	10			Color	Reverse Spin	48	63	
,	10			Function	Continuous	64	79	
					Color Bounce	80	111	
							TBD	112
					Indexed & Indexed With BackOut&Color Bounce		235	
					Position 1 (Open)	0	16	
					Position 2 ~ Position 15	17	255	
					Forward Spin		233	
8	11			Color	Stop to fastest	0	255	
0	11			000	Reverse Spin	0	233	
					Stop to fastest	0	255	
					Continuous	0	233	
					Positioning from 0-360 degrees	0	255	
	$\left \right $				Indexed	0	233	
					Position 1 (Open)	0	2	
					Position 1 (Open) Position 2 ~ Position 15	3	2 44	
		c	0	Color		5	44	
		6	8	Color	Indexed With Backout	45	A 7	
					Position 1 (Open)	45	47	
					Position 2 ~ Position 15	48	89	
					Indexed With Bounce			

					Position 1	90	98
					Position 2 ~ Position 15	99	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	27
					Position 2 ~ Position 9	28	255
					Forward Wheel Spin		
0	13			Rot Gobo	Stop to fastest	0	255
					Reverse Wheel Spin		
					Stop to fastest	0	255
					Continuous		
					Positioning from 0-360 degrees	0	255
					Indexed		
					Position 1 (Open)	0	3
					Position 2 ~ Position 9	4	35
					Indexed With Backout		
					Position 1 (Open)	36	39
					Position 2 ~ Position 9	40	71
		7	9	Gobo	Indexed With Shake		, 1
		,	5	0000	Position 2	72	90
					Position 3 ~ Position 9	91	223
					Forward Wheel Spin		225
					Stop to fastest	224	239
					Reverse Wheel Spin		235
					Stop to fastest	240	255
					Continuous	0	15
					Forward Spin	16	31
					Reverse Spin	32	47
				Gobo Rot	Forward Animate Rotate	48	63
1	14			Function	Forward Animate Rotate With Backout	64	79
					Reverse Animate Rotate	80	95
					Reverse Animate Rotate With Backout	96	111
					TBD	112	
						112	255
	15			Gobo Rot	Continuous Positioning from 0-360 degrees	0	255
12						I U I	275

					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					
					Continuous							
					Positioning from 0-360 degrees	0	191					
					Forward Animate Rotate							
					Stop to fastest	192	207					
			10		Reverse Animate Rotate							
		8	10	Gobo Rot	Stop to fastest	208	223					
					Forward Spin							
					Stop to fastest	224	239					
										Reverse Spin		
					Stop to fastest	240	255					
				Indexed & Indexed With Backout								
					Position 1 (Open)	0	63					
13	16	9	11	Prism	Position 2	64	127					
					Position 3	128	191					
					Position 4	192	255					
					Forward Spin							
	47	4.0	10		Stop to fastest	0	127					
14	17	10	12	Prism Rot	Reverse Spin							
					Stop to fastest	128	255					
4.5	10		10	_	Continuous							
15	18	11	13	Focus	Focus In to Focus Out	0	255					
					Normal	0	7					
					Reset All	8	15					
					Pan&Tilt Reset	16	23					
					Color Reset	24	31					
					Gobo Reset	32	39					
	5 19 12			Shutter Reset	40	47						
16		14	Control	Other Reset	48	55						
			17		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.

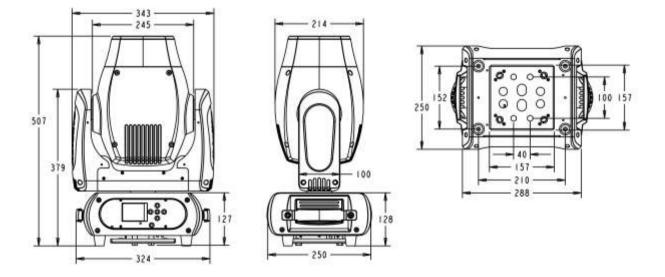
6.3 Hibernation, the device will enter sleeping mode if activated after a period of disconnecting DMX signal to save the power consumption, and will return immediately as soon as the DMX signal is sent again.

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.

8. Dimensions Drawing



9. Technical specification

Power supply	100-240 V AC, 50/60 Hz ~
Power consumption	360W
LED	Osram Sirius HRI 230W discharge lamp
DMX channels	16/19/12/14 modes
Beam angle	1.3°
Luminous flux	10150lumen, 61200lux@20m
Fuse	T 5 A, 250 V
Device dimensions	343x250x507mm
Net Weight	15KG