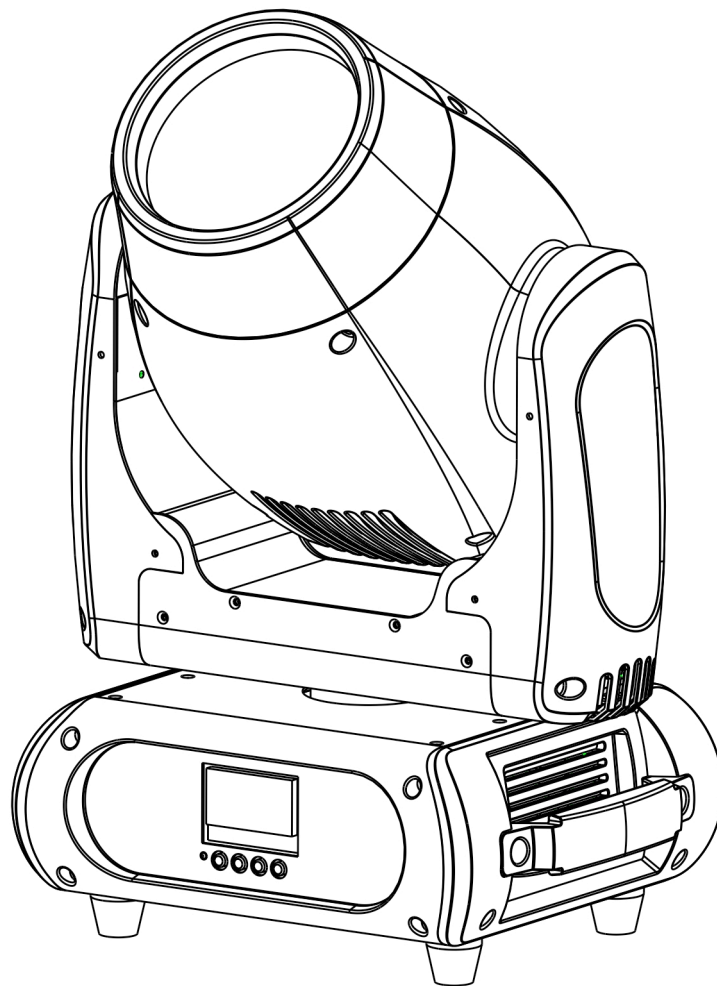


BSL IMPACT BEAM 17R

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
- 1.5m power cable with powercon
- Bracket with nuts for handing installation
- Safety chain

1.2 Specification

Source

- Light source: Osram Sirius HRI 280W discharge lamp
- Lamp life: 2.000 hours
- Luminous Flux: 11165lumen, 170000lux@10m
- Control: Remote on/off via DMX
- Ballast: switching mode power supply

Optical System

- Beam angle: 1.3°

X/Y

- Pan: 630° (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
- Color bounce

Gobos

- Outside \varnothing 13.8mm, inside \varnothing 6mm
- 14+ open static gobos
- Real indexable and gobo shaking
- Distinctive gobo animation effect

Features

- DMX channels: 11/13
- Color wheel: 13+1 colors
- Static gobo wheel: 14+1 gobos
- Motorized focus
- Full range 0-100% dimmer
- Various strobe
- Forst
- 8 facets rotating Effect wheel
- 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

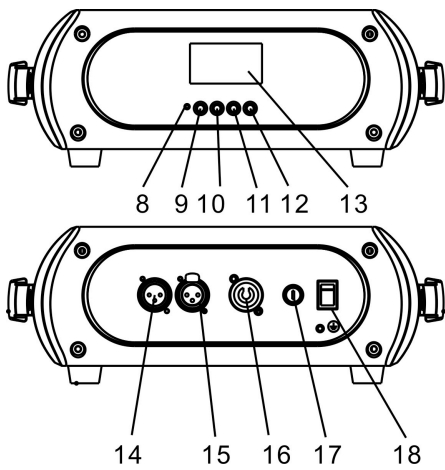
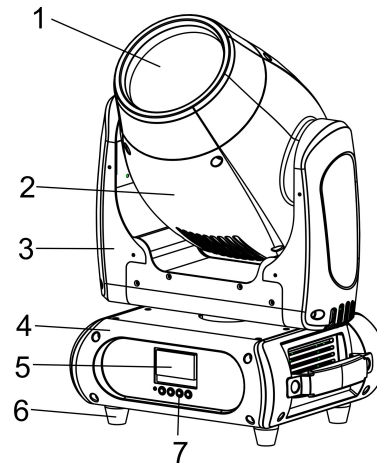
Display

- COG display with English menu
- Auto lock

- Flip
- Back-up communicating IC

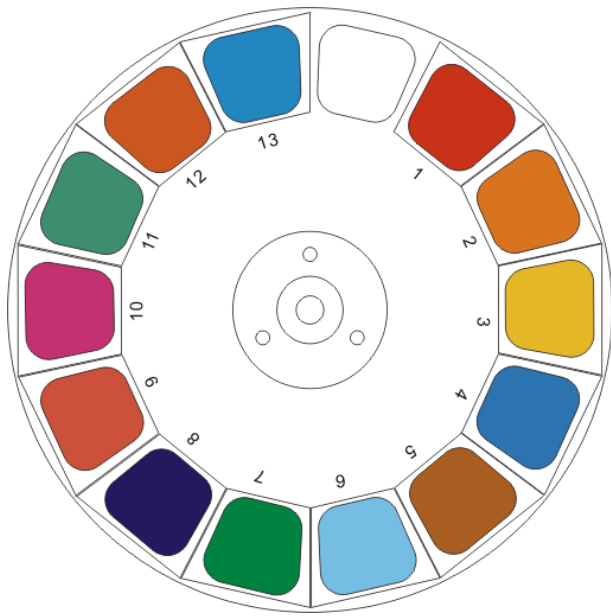
1.3 Description of the Device



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



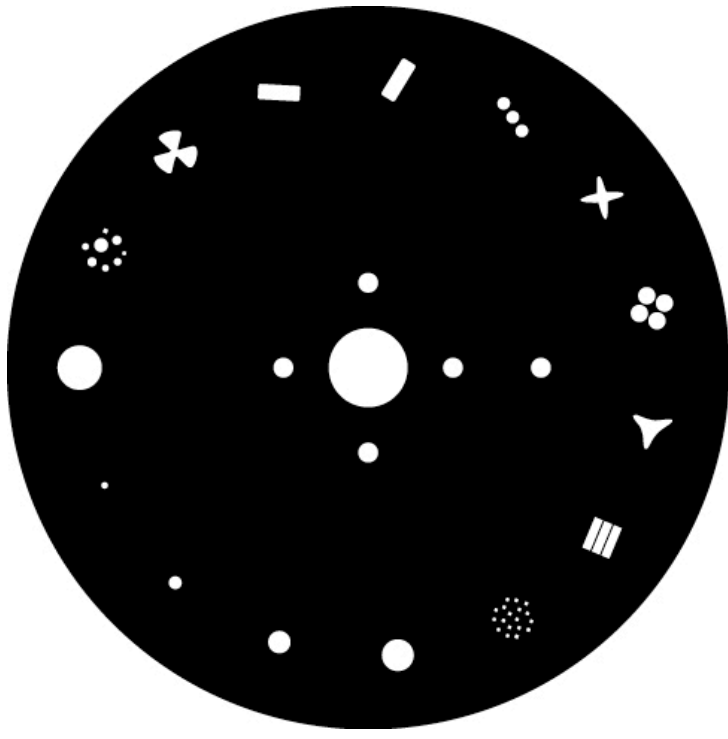
8. Mic
9. Mode/Esc
10. Down button
11. Up button
12. Enter button
13. Display
14. 3-pin DMX in
15. 3-pin DMX out
16. Powercon in
17. Fuse holder
18. Power switch

1.4 Colors and Gobos













	Open	
1		Red
2		Orange
3		Yellow
4		Blue green
5		Amber
6		Light blue
7		Green
8		UV
9		Light red
10		Magenta
11		Dark green
12		Dark yellow
13		Blue





Static gobo wheel



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.

Ta=45°C	The device is supposed to work in the temperate range -15° C and +45° C, do not use the device when the temperate exceed this range.
	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 Faulty power supply	Change a good power cable to try Replace new power supply
Pan/Tilt error or vibrate	Faulty Pan/Tilt PCB Faulty opto sensor Cable loosen	Replace PT001 PCB Replace opto sensor OP001 Check the cable connect to OP001
Lamp off	Temperature protection Fan not working Faulty Lamp Dimmer and strobe set at 0 Faulty power supply	Check the temperature from menu Check the fan speed info from menu Replace new Lamp Set dimmer and strobe channel at 255 Replace new power supply
Device not response to DMX	Faulty communication IC Faulty display PCB Wrong DMX addressing Faulty DMX cable	Replace the IC with back-up one in the display PCB Replace new display PCB Check the address and setting 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.

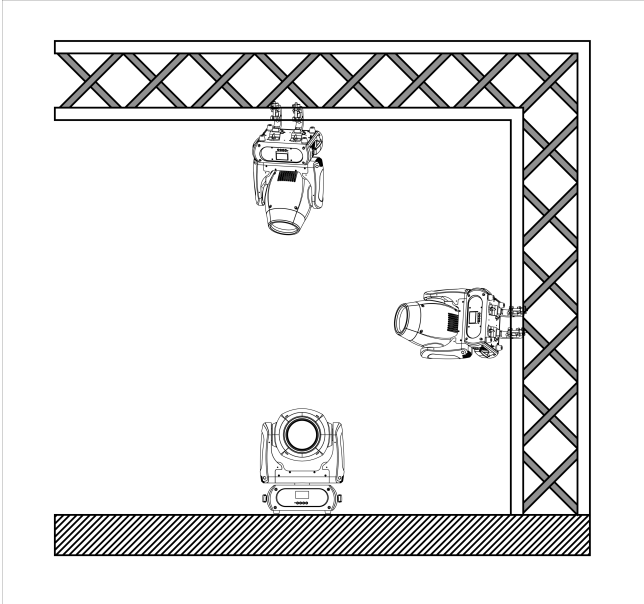
Step One: Unplug power cable from main power.

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.

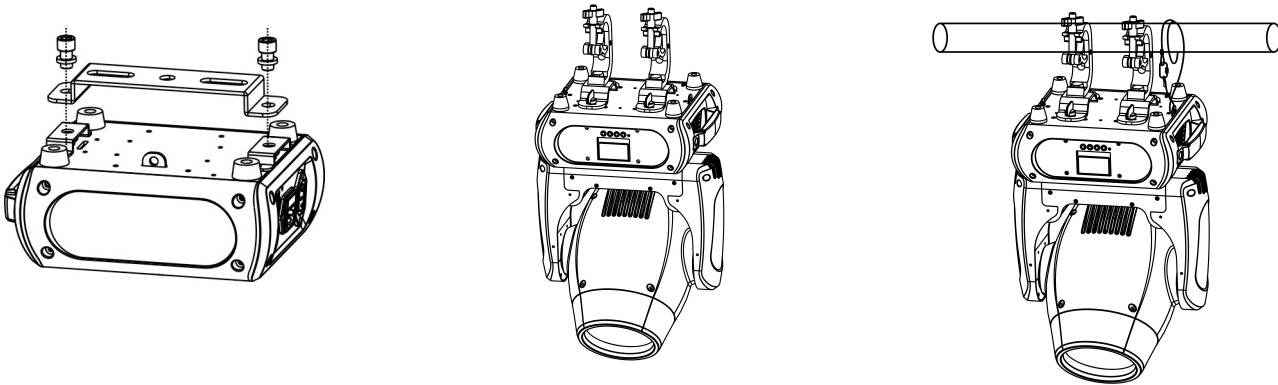
3. Installation



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 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

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

Connect	DMX Addr	XXX	DMX address setting	
	Slave Rece		Choose Slave mode	
	Sequence	Alon/Mast	Choose Sequence mode	
	Music	Alon/Mast	Choose Sound mode	
Light	Max Temp	80~130℃, 90℃	Lamp off if temperature continuously over for 5 minutes	
	Lamp Adjust	CHxx=XXX.....	Adjust value of each channels	
Information	Lamp Temp	XXXC	Temperature of driver	
Set	Reset		Reset	
	Movement	RPan RTilt Degr Enco Mode	ON/OFF ON/OFF 630/540 ON/OFF Mod1/Mod2	Pan Reverse Tilt Reverse Choose Pan Degree Encoder wheel on/off Choose pan/tilt mode
	UI Set	Mic Sign Fan Hibe Back Flip User	0~99%,60% Close/Hold/Auto/Music Auto Speed /High Speed OFF, 01M~99M, 15M 02~60m 02m ON/OFF Use1/Use2	Sensitivity of Mic Mode when no signal Fans mode Sleeping mode Show backlight time Display 180° reverse Users mode
	Calibration	Code CHxx	XXX XXX	Password: 050 Calibrate channel value
	Fixture ID	Rdm Name -Password- PID Code		Name Password: 050 Set PID of RDM
	Software V			IC Version
	Reload Default	Basic Reload ---Password--- All Reload	ON/OFF XXX ON/OFF	Basic Reload Password: 050 All Reload

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: 11/13, if we set the mode at standard 13 channels mode, and there are several models need to be independently controlled, we just simply address first fixture at 1, and second fixture at 12, third one at 23, 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.

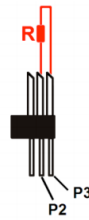
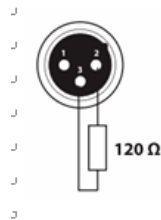
5.1.2 This device is equipped with 3-pins DMX in and out sockets only.



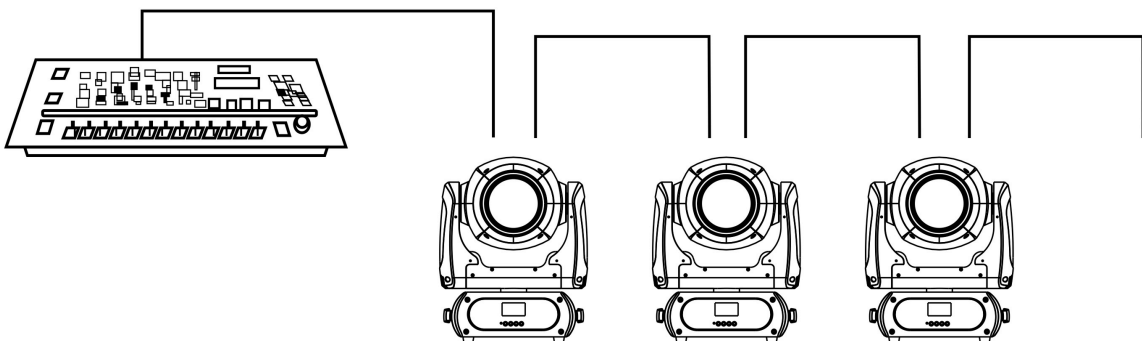
Pin 1 = GND
Pin 2 = Signal (-)
Pin 3 = Signal (+)



5.1.3 The termination is prepared by soldering a 120Ω resistor between pins 2 and 3.



5.1.4 Connection: use 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				
1	1	Pan	Pan Coarse	0	255

	2	Pan fine	Pan Fine	0	255
2	3	Tilt	Tilt Coarse	0	255
	4	Tilt fine	Tilt Fine	0	255
3	5	Movment Speed	fastest to Slowest	0	247
			Movement With Backout	248	255
4	6	Shutter	Shutter closed	0	31
			No function (shutter open)	32	63
			Strobe effect slow to fast	64	95
			No function (shutter open)	96	127
			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
5	7	Dimmer	Dimmer(Close to Open)	0	255
6	8	Color	Indexed		
			Position 1 (Open)	0	1
			Position 2	2	3
			Position 3	4	5
			Position 4	6	7
			Position 5	8	9
			Position 6	10	11
			Position 7	12	13
			Position 8	14	15
			Position 9	16	17
			Position 10	18	19
			Position 11	20	21
			Position 12	22	23
			Position 13	24	25
			Position 14	26	27
			Indexed With Backout		
			Position 1 (Open)	28	29
			Position 2	30	31
			Position 3	32	33
			Position 4	34	35
			Position 5	36	37
			Position 6	38	39
			Position 7	40	41
			Position 8	42	43
			Position 9	44	45
			Position 10	46	47
			Position 11	48	49
			Position 12	50	51
			Position 13	52	53
			Position 14	54	55
Indexed With Bounce					
Position 1	56	67			

			Position 2	68	79
			Position 3	80	91
			Position 4	92	103
			Position 5	104	115
			Position 6	116	127
			Position 7	128	139
			Position 8	140	151
			Position 9	152	163
			Position 10	164	175
			Position 11	176	187
			Position 12	188	199
			Position 13	200	211
			Position 14	212	223
			Forward Wheel Spin		
			Stop to fastest	224	239
			Reverse Wheel Spin		
			Stop to fastest	240	255
			Indexed		
			Position 1 (Open)	0	2
			Position 2		
			Position 3		
			Position 4		
			Position 5		
			Position 6		
			Position 7		
			Position 8		
			Position 9		
			Position 10		
			Position 11		
			Position 12		
			Position 13		
			Position 14		
			Position 15	3	46
			Indexed With Backout		
			Position 1 (Open)	47	49
			Position 2	50	52
			Position 3	53	55
			Position 4	56	58
			Position 5	59	61
			Position 6	62	64
			Position 7	65	67
			Position 8	68	70
			Position 9	71	73
			Position 10	74	76
			Position 11	77	79
			Position 12	80	82
7	9	Gobo			

			Position 13	83	85
			Position 14	86	88
			Position 15	89	93
			Indexed With Shake		
			Position 3	94	103
			Position 4	104	113
			Position 5	114	123
			Position 6	124	133
			Position 7	134	143
			Position 8	144	153
			Position 9	154	163
			Position 10	164	173
			Position 11	174	183
			Position 12	184	193
			Position 13	194	203
			Position 14	204	213
			Position 15	214	223
			Forward Wheel Spin		
			Stop to fastest	224	239
			Reverse Wheel Spin		
			Stop to fastest	240	255
8	10	Prism	Indexed & Indexed With Backout		
			Position 1 (Open)	0	63
			Position 2	64	127
			Frost 0->100%	128	255
9	11	Prism Rot	Forward Spin		
			Stop to fastest	0	127
			Reverse Spin		
			Stop to fastest	128	255
10	12	Focus	Continuous		
			Focus In to Focus Out	0	255
11	13	Control	Normal	0	7
			Reset All	8	15
			Pan&Tilt Reset	16	23
			Color Reset	24	31
			Gobo Reset	32	39
			Shutter Reset	40	47
			Other Reset	48	55
			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

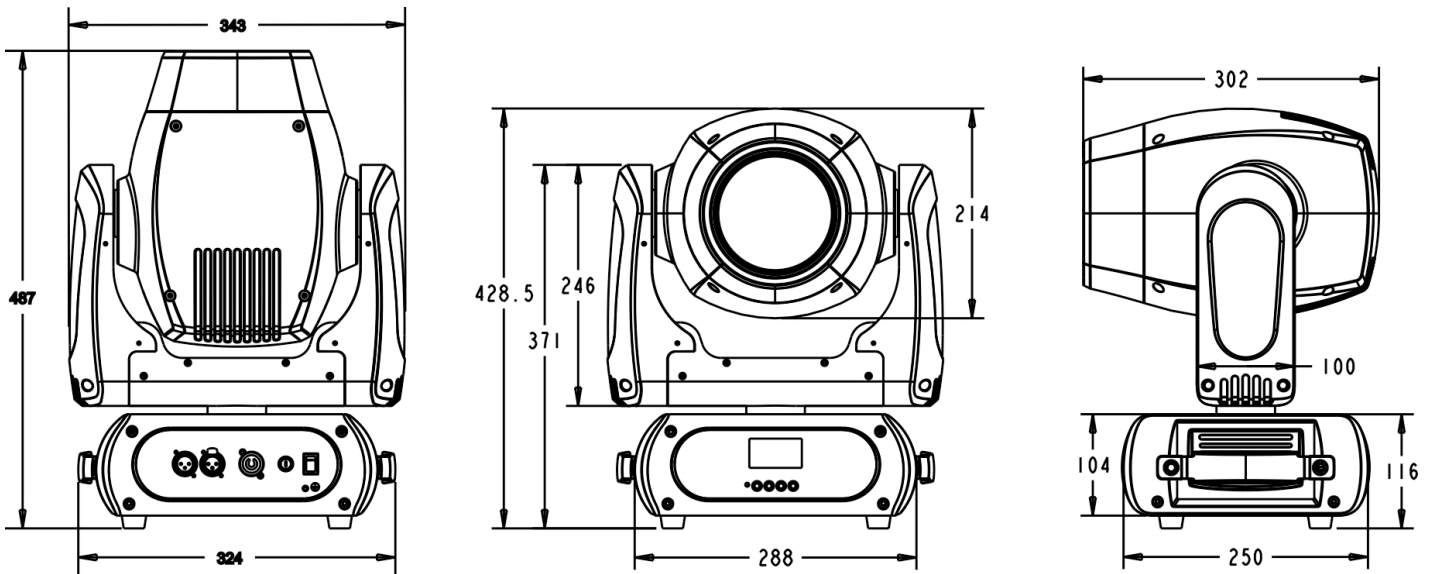
6.1 Software upgrade function via DMX cable, if there is any new firmware for this device come out, it can be upgraded simply via a software upgrade box, no need to change any mechanical parts. The upgrade box is not included in the package, if need any further assistance pls just contact authorized dealers.

6.2 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.

6.3 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.

6.4 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	420W
LED	Osram Sirius HRI 280W discharge lamp
DMX channels	11/13 modes
Beam angle	1.3°
Luminous flux	11165lumen, 170000lux@10m
Fuse	T 3.15 A, 250 V
Device dimensions	343x250x50mm
Net Weight	15KG

