



12	Reset/Function Channel	Reset/Function Channel
	000-040	No function
	041-050	600HZ
	051-060	2000HZ
	061-070	4000HZ
	071-080	6000HZ
	081-090	20000HZ
	091-100	Dimming curve: Linear
	101-110	Dimming curve: square curve
	111-120	Dimming curve: inverse square curve
	121-130	Dimming curve: S curve
	131-140	XY motor reset
	141-150	effect reset
	151-160	All reset
	161-255	NO function

# User Manual

## Moving-head Beam

### Trouble-shooting

The following are some common problems that occur during operation, along with some suggestions for trouble-shooting.

#### A. The light can not turn on

- ① Check the power connection and whether the fuse is intact.
- ② Check the voltage.
- ③ Check the indicator light on the power switch.

#### B. The light is not controlled by the console

- ① Check the DMX signal connector and signal cable to see if they are connected correctly. If the connection is unsuccessful, the indicator light will turn red.
- ② If the indicator light is green but the channel does not respond, check whether the address code is set correctly.
- ③ If the DMX signal transmission is intermittent, check whether the connection between the XLR socket and the signal cable is good.
- ④ Try using another controller.
- ⑤ Check if the DMX signal cable is too close to the high voltage wire, which may damage or interfere with the signal circuit.

#### C. A channel fails

- ① The stepper motor may be damaged or the motor leads may be broken.
- ② The motor drive circuit may be faulty.

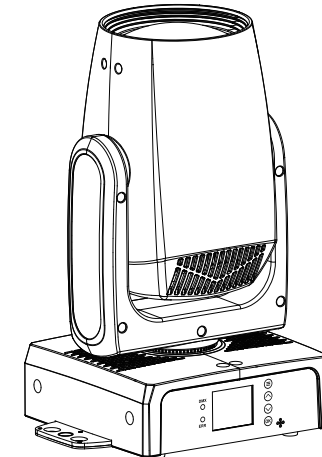
### Cleaning Dust Removal

The inside and outside of the lens and the reflector must be wiped frequently to make the lighting effect better. The frequency of wiping depends on the environment. Humid, smoky and dirty environments are prone to dust accumulation on the lens.

- Use soft linen cloth and special glass cleaner.
- Dry the parts carefully.
- Wipe the outside of the lenses at least every 30 days.

Cleaning dust inside light :

Every three months, the inside of the light should be dusted and the dust-proof cotton at the air inlet of the light should be cleaned.



Model: LB150

Please read this manual carefully before using the product

## Safety Guidance

**Please read this manual carefully, which includes important information of installation, using and maintenance !**

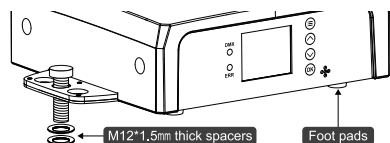
**Warning :** Please save this manual for future reference, and if you sell this product to other users, make sure they also get this manual.

**Notice :** The equipment is packed in good condition when it leaves the factory. Please operate it according to the user manual. Machine failure caused by human factors is not covered by the warranty.

- Before using the product, please check carefully to ensure that the light has no damage caused by transportation.
  - This light is only suitable for use in dry places indoors.
  - The installation and operation of lights should be performed by professionals.
  - Do not allow children to operate the machine.
  - Use safe ropes when securing the equipment, and lift up the bottom when moving the light.
  - The equipment must be installed in a well-ventilated place, at least 50 cm away from adjacent surfaces.
  - Make sure the ventilation holes are unobstructed to prevent the light from overheating during operation.
  - Before operation, ensure that the power supply voltage matches the power supply voltage required by the equipment.
  - Please ground the light to prevent electric shock.
  - Do not operate the light in an environment above 40 °C.
  - It is prohibited to connect light directly to dimming devices.
  - A new light may produce a small amount of smoke or odor when it is working, which will disappear after 15 minutes of operation.
  - Do not place flammable objects next to the light when it is in operation to prevent fire hazards.
  - Before turning on the light, please carefully check whether the power cord is damaged. If damaged, please replace it immediately.
  - When the light is in operation, the surface temperature of the shell can reach 70 °C , please do not touch it with bare hands.
  - Prevent flammable liquids, water or metal and other conductive objects from entering the light to avoid electric shock or fire. If any foreign object enters the light, please cut off the power supply immediately.
  - Avoid operating in dirty and dusty environments, and clean and maintain the lights regularly.
  - Do not touch the wires when the light is running to prevent electric shock.
  - Avoid the power cord from getting entangled with other wires.
  - The distance between the light and the irradiated surface should be greater than 1 meter .
  - Disconnect the power supply before replacing the fuse or bulb.
  - When replacing a fuse or bulb, use the same type.
  - If a serious operating failure occurs, please stop using it immediately.
  - If there is obvious damage to the light housing, lens or UV filter, please replace it in time.
  - There are no usable parts inside the light, please do not open the light casing without authorization
  - Please do not operate the machine by yourself. Non-professional operation may cause damage to the equipment or malfunction.
- If maintenance is required, please contact the nearest authorized service center.
- Please cut off the power supply when the light is not used for a long time or is under maintenance.
  - When transporting again, please use the original packaging materials.
  - To avoid fire or electric shock, do not expose the light to rain or wet areas.
  - Do not look directly at the light when it is running .
  - When hanging the light sideways or hanging it, please correctly install the safety rope.

### Installation Note :

When using the bottom M12 holes, remove the 4 foot pads first and add 4pcs M12\*1.5mm thick spacers per hole (Use 2 spacers for each M12 screw hole), to avoid the base to be close to the wall to affect the heat dissipation.



The following symbols are used to identify important safety information in the product and user manual:



9	Gobo wheel	Gobo wheel
	000-010	White light
	011-015	Pattern 1
	016-020	Pattern 2
	021-025	Pattern 3
	026-030	Pattern 4
	031-035	Pattern 5
	036-040	Pattern 6
	041-045	Pattern 7
	046-050	Pattern 8
	051-055	Pattern 9
	056-060	Pattern 10
	061-065	Pattern 11
	066-070	Pattern 12
	071-075	Pattern 13
	076-080	White light
	081-087	Pattern 1 shaking from slow to fast
	088-094	Pattern 2 shaking from slow to fast
	095-101	Pattern 3 shaking from slow to fast
	102-108	Pattern 4 shaking from slow to fast
	109-115	Pattern 5 shaking from slow to fast
	116-122	Pattern 6 shaking from slow to fast
123-129	Pattern 7 shaking from slow to fast	
130-136	Pattern 8 shaking from slow to fast	
137-143	Pattern 9 shaking from slow to fast	
144-150	Pattern 10 shaking from slow to fast	
151-157	Pattern 11 shaking from slow to fast	
158-164	Pattern 12 shaking from slow to fast	
165-171	Pattern 13 shaking from slow to fast	
172-180	White light	
181-221	The pattern flows clockwise from fast to slow	
222-255	The pattern flows counterclockwise from slow to fast	
10	Prism	Prism
	000-010	Prism off
	011-155	Prism cut-in
	156-157	Stop
	158-205	The prism rotates counterclockwise(speed 1% - > 100%)
	206-207	Stop
	208-255	Prism rotates clockwise (speed 100% - > 1%)
11	Reserved Channel	Reserved Channel

## Channel value table

12CH	Value	Function
1	000-255	Pan
2	000-255	Pan fine
3	000-255	Tilt
4	000-255	Tilt fine
5	000-255	PAN/TILT speed (speed from 100 → 1%)
6	000-255	Dimming
7	Light switch/strobe	Light switch/strobe
	000-010	Light off
	011-99	Normal strobe (from slow to fast)
	100-109	Light on
	110-179	Pulse strobe (from slow to fast)
	180-189	Light on
	190-250	Random strobe (from slow to fast)
	251-255	Light on
	8	Color wheel
0-10		White
11-15		White+Color1
16-20		Color1
21-25		Color1+Color2
26-30		Color2
31-35		Color3+Color3
36-40		Color3
41-45		Color3+Color4
46-50		Color4
51-55		Color4+Color5
56-60		Color5
61-65		Color5+Color6
66-70		Color6
71-75		Color6+Color7
76-80		Color7
81-85		Color7+Color8
86-90		Color8
91-95		Color8+Color9
96-100		Color9
101-105		Color9+Color10
106-110	Color10	
111-115	Color10+Color11	
116-120	Color11	
121-125	Color11+White	
126-130	White	
192-225	The color wheel flows clockwise from fast to slow	
226-255	The color wheel flows counterclockwise from slow to fast	

## Technical parameters

### Power and light source

Power supply: AC 100~ 240V , 50 /60Hz  
 Power: 150W  
 Light source: 100W COB white light source  
 Color temperature: 10000 ~ 12000K Lifespan: 50,000 hours  
 Beam Angle: 2.8°

### Scan

Horizontal scan: 540° (16 bit precision scan); Vertical scanning: 270° (16 bit precision scanning)  
 The advanced scanning system is faster, more stable, quieter and has a reset function for automatic error correction

**Color:** 1 color wheel: 11 fixed color filters + open, half-color effect, the color filter can be positioned arbitrarily, with two-way rotating rainbow effect

**Gobo:** 1 fixed gobo wheel: 11 gobos + open, with gobo shaking and arbitrary gobo positioning functions.

### Specifications

Channel mode: 12 international standard DMX512 channels  
 Prism plate: 1 prism plate, 8+16 prisms  
 Focus: Manual focus  
 Strobe: Electronic strobe, the highest frequency can reach 14Hz, and random strobe and pulse strobe can be selected.  
 Dimming: 0~100% linear dimming, 4 dimming curves optional

**Control mode:** DMX, Master/Slave, Auto, Sound

**Display:** 1.7-inch touch LCD display

**Software:** The machine can be reset from the console; the light source and light usage time are displayed, allowing customers to understand the light usage status in a timely manner

**Other functions:** Input signal isolation protection function ensures stable signal transmission without interference

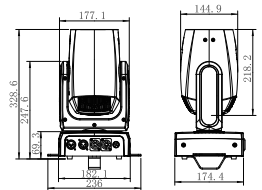
**RDM Function:** DMX signal input/output: 3-core XLR signal line interface

**Wireless function:** (optional)

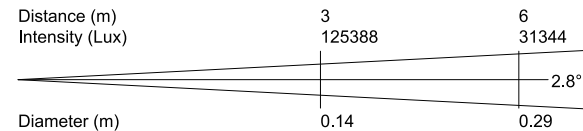
**Heat Dissipation:** Fan cooling

### Dimensions and weight

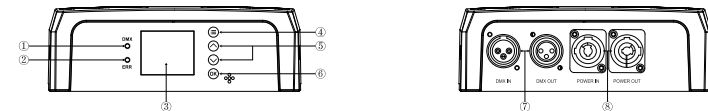
Product size: 236x174x329mm  
 Net weight: 4.6kg



## Illumination



## Introduction of the control panel



① Signal indicator: Green color shows DMX signal is connected.

② Error indicator: Red color shows there is ERROR message, check it from the "Information" menu

③ LCD Display ④ Enter to Main menu/Return ⑤ Detail UP/Down ⑥ Enter

⑦ DMX IN & DMX OUT: For DMX512 operation, use 3-pin XLR cable to link the unit and DMX controller (5-pin XLR is optional)

⑧ POWER IN/OUT: Use to connect to supply power

### FUSE(5A):

Protect the unit from damage of over current or short-circuit. Disassembly and replacement require opening the left bottom shell.



## Configuration instructions

① Light body	1 Set	③ Signal connection cable	1 Set	⑤ User manual	1 Set
② Power connection cable	1 Set	④ Safety rope	1 Set	⑥ Hanging plate	1 Set

**Main functions** (Press the menu button to enter the menu mode, use the up and down buttons to select the menu option you want. Press the ok button to enter the selected function, the main functions are as follows: )

Address code	001 - 512		Default 001	
Operation mode	Dmx		Default	
	AUTO: Energetic			
	AUTO: Calm			
	AUTO: Romantic			
	sound control			
Master-slave selection	Slave			
	Master			
	Automatic		Default	
Manual control	X-axis	0-255		
	X-axis fine adjustment	0-255		
	Y-axis	0-255		
	Y-axis fine adjustment	0-255		
	Xy speed	0-255		
	Strobe	0-255		
	Dimming	0-255		
	Color wheel	0-255		
	Picture plate	0-255		
	Prism	0-255		
	Set up	X-axis reverse	Closure	Default
			Open	
Y-axis reverse		Closure	Default	
		Open		
Data retention		Closure		
		Open	Default	
Voice control sensitivity		0-100		
Refresh rate		600hz	Default	
		2000hz		
		4000hz		
		6000hz		
		20000hz		
Dimming curve		Straight line	Default	
		Square curve		
		Inverse square curve		
		S-curve		
Motor calibration (Press up-down-up-down Buttons to enter)		Pan	-127~+127	
		Tilt	-127~+127	
	Color wheel	-127~+127		
	Gobo wheel	-127~+127		
	Prism	-127~+127		
Display setting	Language	Chinese	Default	
		English		
	Screen protector	Closure	Default	
		Mode 1		
Screen reverse	Closure	Default		
	Open			
State	Motor information			
	Lighting status			
	Version			
	Light source time			
	Lighting time			
Light reset	Xy motor reset			
	Head motor reset			
	Reset all			
Reset	Cancel			
	Confirm			

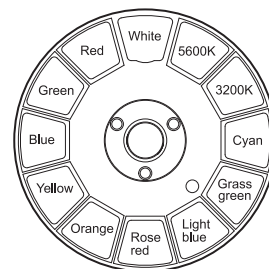
**Initial position adjustment**

Press the menu button to enter the menu mode and enter the motor calibration function. Press the up-down-up-down button. Enter the initial position setting for each motor. Use the up / down button to adjust the initial position value (-128-127), press the ok button to confirm. Press the menu button to exit.

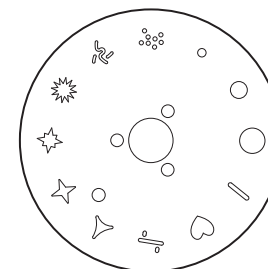
**Level / Vertical / Strobe / Color Wheel / Gobo Wheel / Prism**

**Gobo Wheel&Color Wheel**

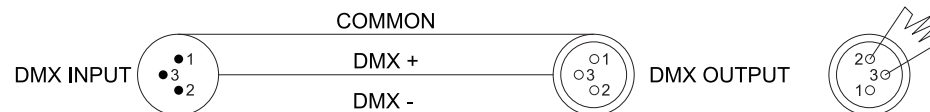
**Color Wheel :**



**Gobo Wheel :**



**Universal DMX controller control**



**DMX Connection**

- In order to reduce signal errors and avoid signal attenuation and interference during transmission, you can add a 120 OHM 1/4W resistor between the 2nd and 3rd pins of the DMX output end of the last machine.
- Use XLR signal cables to connect the lights, one end to the output port of the lights, and the other end to the input port of the next light. XLR signal cables can only be used in series, not in parallel. DMX512 signal transmission speed is very fast. Damage to the signal cable, loose welding, poor contact, etc. These will affect signal transmission and cause the system to shut down.
- When the machine power of a unit is cut off, the DMX output and input connections are connected to maintain the connectivity of the DMX line.
- Each light must have an address code that can receive information from the console, ranging from 0-511 (usually 0&1 is the same as 1).
- The terminal of the DMX512 system needs to be equipped with a terminator to reduce errors in signal transmission.
- 3 PIN XLR: PIN1: GND, PIN 2: Negative signal(-), PIN3: Positive signal(+).

**Channel Settings**

Press the MENU button to enter the main menu. Select DMX in the operation mode and press the ENTER button to confirm. Press the LEFT button to return to the previous menu or wait for one minute to automatically exit the Main menu.

**Address code setting**

When using a universal DMX controller to control the light, you need to set the starting address (1-512) for the light so that the machine can receive the DMX signal. Press the MENU button to enter the menu mode, select the DMX function, press the ENTER button to confirm, the current address will flash on the display, then use the UP/DOWN button to select the address code (1-512), press the ENTER button to save. Press the MENU button to return to the previous menu or wait for one minute to automatically exit the menu mode.

**Please refer to the following chart to set the address codes of the first 4 lights :**

Channel Mode	Lighting1 Address code	Lighting2 Address code	Lighting3 Address code	Lighting4 Address code
12 CH	1	13	25	37