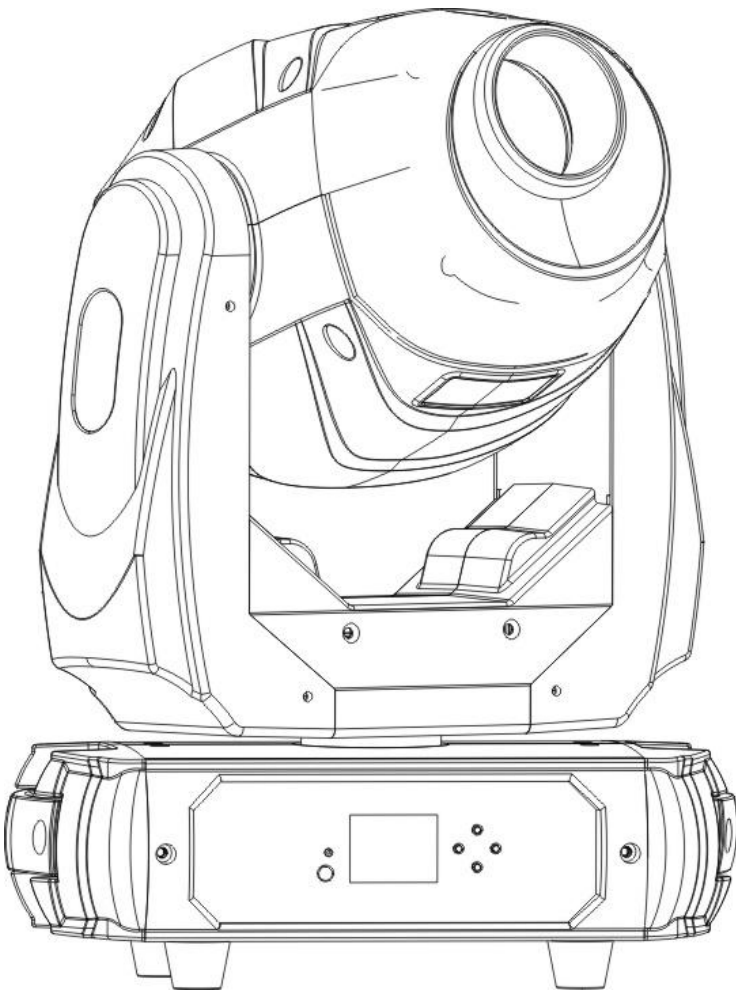




User manual



230 SPOT

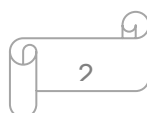
Please read the instructions carefully before use

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STATEMENT

The product has well capability and intact packing when leave factory. All of the user should comply with warning item and manual, any misuse cause of the damages are not included in our guarantee, and also can not be responsible for any malfunction & problem owing to ignore the manual.



1. Safety Instructions

Please keep this User Guide for future consultation. If you sell the unit to another user, be sure that they also receive this instruction booklet.

- Unpack and check carefully there is no transportation damage before using the unit.
- Before operating, ensure that the voltage and frequency of power supply match the power requirements of the unit.
- It's important to ground the yellow/green conductor to earth in order to avoid electric shock.
- The unit is for indoor use only. Use only in a dry location.
- The unit must be installed in a location with adequate ventilation, at least 50cm from adjacent surfaces. Be sure that no ventilation slots are blocked.
- Disconnect main power before replacement or servicing.
- Make sure there are no flammable materials close to the unit while operating as it is fire hazard.
- Use safety cable when fixes this unit. DO NOT handle the unit by taking its head only, but always by taking its base.
- Maximum ambient temperature is T_a : 40°C . DO NOT operate it where the temperature is higher than this Unit surface temperature may reach up to 85°C . DO NOT touch the housing bare-hand during its operation. Turn off the power and allow about 15 minutes for the unit to cool down before replacing or serving.
- the event of serious operating problem, stop using the unit immediately. Never try to repair the unit by yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center. Always use the same type spare parts.
- DO NOT touch any wire during operation as high voltage might be causing electric shock.

Warning:

- To prevent or reduce the risk of electrical shock or fire, do not expose the unit to rain or moisture.
- The housing, the lenses, or the ultraviolet filter must be replaced if they are visibly damaged.

Caution:

- There are no user serviceable parts inside the unit. DO NOT open the housing or attempt any repairs yourself. In the unlikely event your unit may require service, please contact your nearest

dealer.

Installation:

- The unit should be mounted via its screw holes on the bracket. Always ensure that the unit is firmly fixed to avoid vibration and slipping while operating. And make sure that the structure to which you are attaching the unit is secure and is able to support a weight of 10 times of the unit's weight. Also always use a safety cable that can hold 12 times of the weight of the unit when installing the fixture.
- The equipment must be fixed by professionals. And it must be fixed at a place where is out of the touch of people.

2. Technical Specifications

Input Voltage: 100-240V, 50/60Hz

Power consumption: 250W

Beam angle: 15°, 8°, 3° in optional

Light source: Advanced 230w white led

Led life: 60.000 hours

Luminous Flux: 16200 lumen .

Pan: 540° (16bit) Electric correction

Tilt: 270° (16bit) Electric correction

Gobos:

Outside \varnothing 25.8mm, inside \varnothing 21.5mm

6+ open custom interchangeable rotating gobo. indexable and gobo

Shaking

8+ open fixed gobos.

Prism: 6-faced linear 、 8-facet prism 、 frost

Motorized auto focus

Full range 0-100% dimmer

Frost effect

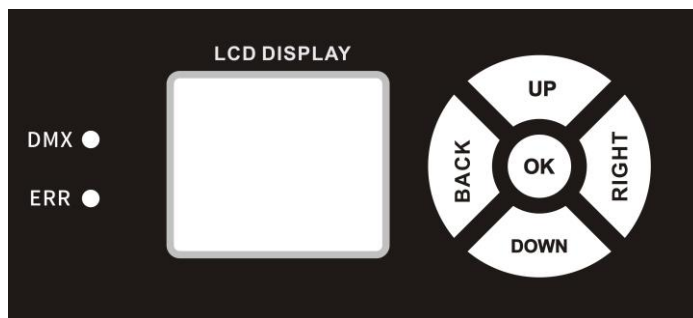
Dimming:0-100% linear adjustment

DMX Channels:16 channels

Control mode:DMX512,Auto, Sound active, Master/slave

Dimension:275*245*353 mm; NW: 12KGS;GW:14KGS

3.Control Menu



[BACK] menu selection or return to previous menu.

[UP] press [UP] through the menu list to increase/change the value of the current function.

[DOWN] press [DOWN] through the menu list to decrease/change the value of the current function.

[RIGHT] press [RIGHT] to return to previous menu.

[OK] confirm & quit out current function setting.

set up		function
Address	1 - 512	Set address code
Channel	16CH	Set channel
Run Mode	DMX, Sound, Master/Slave, Auto	Set Run mode
Address Auto	ON/OFF	The address code is automatically calculated. For example, the current address code is 1 and the channel mode is 16CH. After the address code is turned on automatically, press the set address code to automatically add 16, that is, the address code becomes 17
Signal hold	ON/OFF	After opening, the original action will be maintained if there is no signal
Pan Tilt Swap	ON/OFF	X and Y channel exchange
PanREV	ON/OFF	X-axis reversal
TiltREV	ON/OFF	Y-axis reversal
Encoder	ON/OFF	Encoder error correction
Hall	ON/OFF	Hall error correction
Restore settings	Yes / no	Restore factory settings (but do not restore trim data)

4.DMX Channels

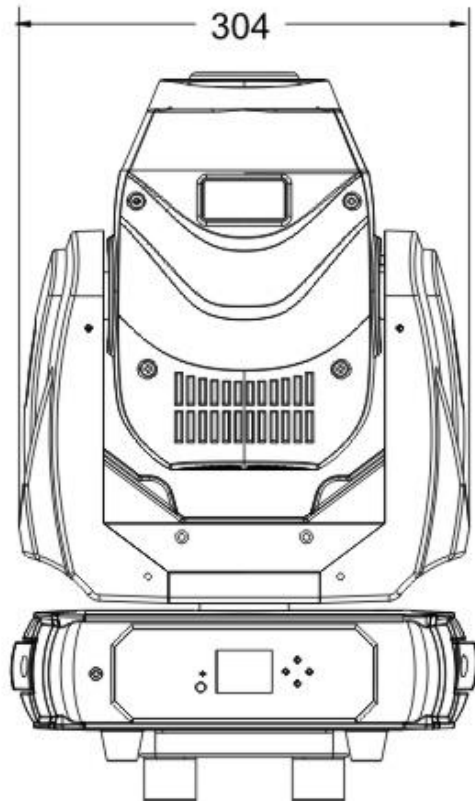
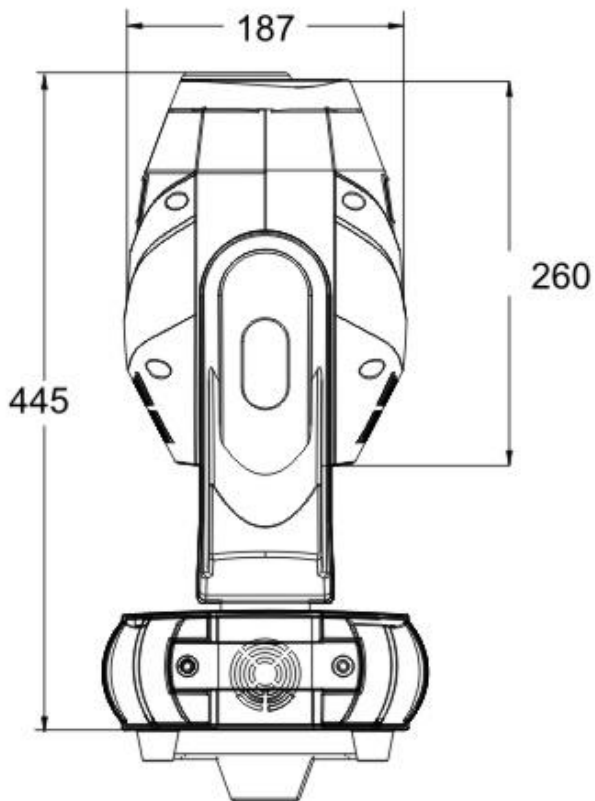
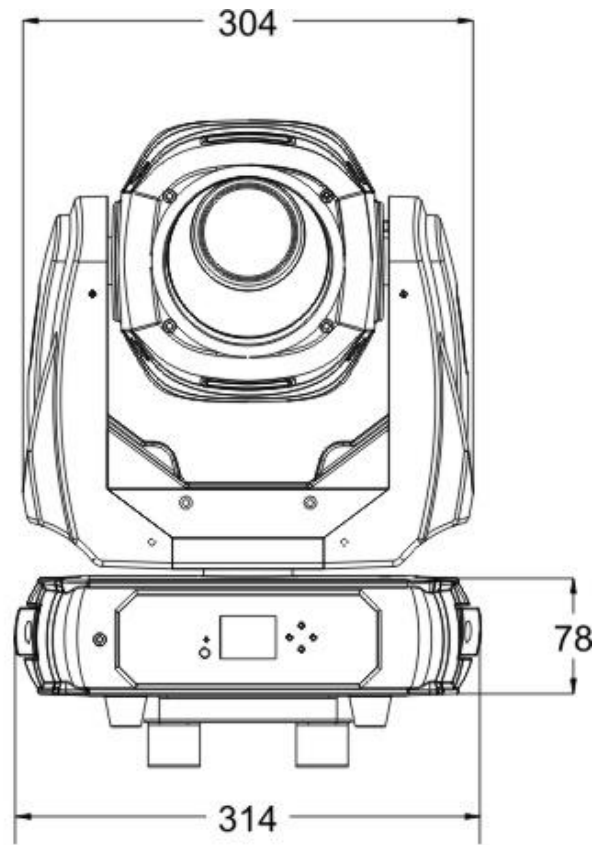
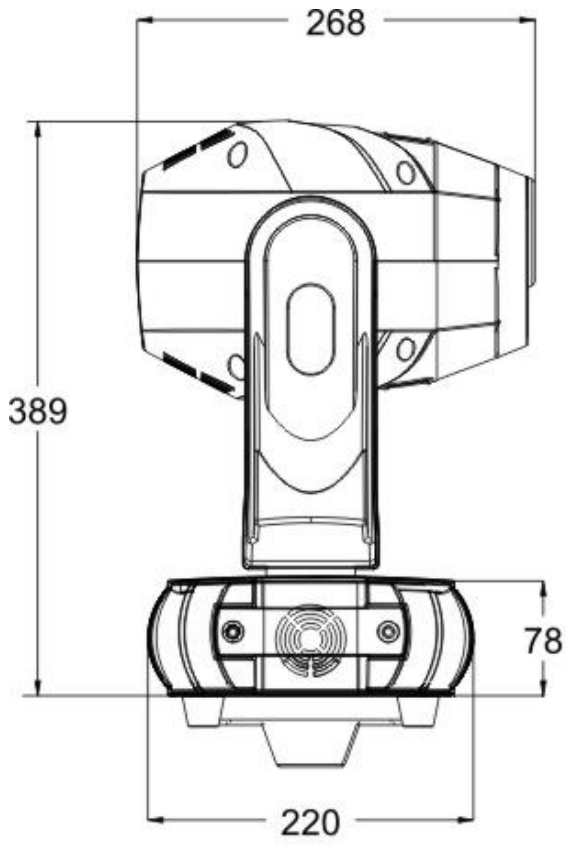
CH16

Channel	Function	Value	Description
CH1	Pan	0-255	0-540 degree
CH2	Pan Fine	0-255	0-2 degree
CH3	Tilt	0-255	0-270 degree
CH4	Tilt Fine	0-255	0-2 degree
CH5	Pan/Tilt speed	0-255	From fast to slow
CH6	Dimmer	0-255	Dimmer 0-100%
CH7	Strobe	0-3	No function
		4-100	Strobe at linearly variable frequency from slow to fast
		101-150	Pulsation at linearly variable speed
		151-200	Pulsation at linearly variable speed
		201-250	Random strobe
		251-255	No function
CH8	Color	0-9	Open/White
		10-19	Half color White + Red
		20-29	Color 1 Red
		30-39	Half color Red + Green
		40-49	Color 2 Green
		50-59	Half color Green + Blue
		60-69	Color 3 Blue
		70-79	Half color Blue + yellow
		80-89	Color 4 Yellow
		90-99	Half color Yellow + Orange
		100-109	Color 5 Orange
		110-119	Half color Orange + Magenta
		120-129	Color 6 Magenta
		130-139	Half color Magenta + Warm White
		140-149	Color 7 Warm White
		150-159	Half color Warm White + White
		160-204	Forwards rainbow effect from fast to slow
		205-210	Stop
211-255	Backwards rainbow effect from slow to fast		
CH9	Focus	0-255	
		0-9	Open
		10-19	Gobo 1
		20-29	Gobo 2
		30-39	Gobo 3

CH10	Gobo 1	40-49	Gobo 4	
		50-59	Gobo 5	
		60-69	Gobo 6	
		70-79	Gobo 1 shake from slow to fast	
		80-89	Gobo 2 shake from slow to fast	
		90-99	Gobo 3 shake from slow to fast	
	CH10	Gobo 1	100-109	Gobo 4 shake from slow to fast
			110-119	Gobo 5 shake from slow to fast
			120-129	Gobo 6 shake from slow to fast
			130-190	forwards gobo rotation from slow to fast
			191-194	Stop
			195-255	Backwards gobo rotation from slow to fast
			CH11	Gobo 1 Rot
128-189	Forwards gobo rotation from fast to slow			
190-193	Stop			
194-255	Backwards gobo rotation from slow to fast			
CH12	Indexing fine	0-255		
CH13	Gobo 2	0-9	Open	
		10-19	Gobo 1	
		20-29	Gobo 2	
		30-39	Gobo 3	
		40-49	Gobo 4	
		50-59	Gobo 5	
		60-69	Gobo 6	
		70-79	Gobo 7	
		80-89	Gobo 8	
		90-99	Gobo 1 shake from slow to fast	
		100-109	Gobo 2 shake from slow to fast	
		110-119	Gobo 3 shake from slow to fast	
		120-129	Gobo 4 shake from slow to fast	
		130-139	Gobo 5 shake from slow to fast	
		140-149	Gobo 6 shake from slow to fast	
		150-159	Gobo 7 shake from slow to fast	
		160-169	Gobo 8 shake from slow to fast	
		170-210	forwards gobo rotation from slow to fast	
211-214	Stop			
215-255	Backwards gobo rotation from slow to fast			
CH14	prism	0-66	No function	
		67-128	Prism 1	
		129-191	Prism 2	
		192-255	Frost	
CH15	Prism rot	0-127	Index	
		128-188	Forwards rotation from fast to slow	
		189-194	Stop	
		196-255	Backwards rotation from slow to fast	

CH16	reset	0-25	No function
		26-76	Reset Small motors
		77-127	Reset Pan/Tilt
		128-255	Reset all motors

5.Dimension



6. Trouble Shooting

Following are a few common problems that may occur during operation. Here are some suggestions for easy troubleshooting:

A. The unit does not work, no light and the fan does not work

1. Check the connection of power and main fuse.
2. Measure the mains voltage on the main connector.
3. Check the power on LED.

B. Not responding to DMX controller

1. DMX LED should be on. If not, check DMX connectors, cables to see if link properly.
2. If the DMX LED is on and no response to the channel, check the address settings and DMX polarity.
3. If you have intermittent DMX signal problems, check the pins on connectors or on PCB of the unit or the previous one.
4. Try to use another DMX controller.
5. Check if the DMX cables run near or run alongside to high voltage cables that may cause damage or interference to DMX interface circuit.

C. One of the channels is not working well

1. The stepper motor might be damaged or the cable connected to the PCB is broken.
2. The motor's drive IC on the PCB might be out of condition

7. Fixture Cleaning

The cleaning of internal and external optical lenses and/or mirrors must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates: damp, smoky or particularly dirty surrounding can cause greater accumulation of dirt on the unit's optics.

- Clean with soft cloth using normal glass cleaning fluid.
- Always dry the parts carefully.
- Clean the external optics at least every 20 days. Clean the internal optics at least every 30/60 days.