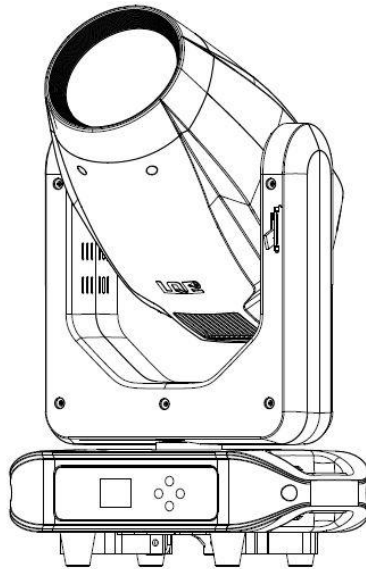




XS4-S BSW 380w Hybrid Moving Head



User Manual

Please read the instructions carefully before using

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>>Please read this user manual carefully, as it covers important information on installation, use and maintenance<<

1. Safety Instructions

The product is shipped with all the packaging intact, the performance is intact, please follow the user manual for use and installation, due to man-made causes of product failure is not within the scope of our warranty, please save this user manual as a basis for future use and installation of the consulting basis, if you promote this product to other users, please ensure that they also get this manual, this manual is for reference only, all lamps and lanterns products in kind, please prevail. All the information in this manual is for reference only, all the lamps and lanterns should be subject to the physical object, if there is any change without prior notice, LQE Lighting will reserve the right of final interpretation.

The following symbols are used to identify important safety information in the product and user manual:	
	Warning: Safety hazards that could cause serious injury or death.
	Warning: Refer to the user manual before installation, powering on, or performing maintenance.
	Warning: Risk of fatal or serious electric shock
	Warning: Risk of fire.
	Warning: Risk of burn from hot surface. Do not touch

	Warning: Risk of eye injury. Protective goggles must be worn.
	Warning: Risk of hand injury. Gloves must be worn.
	For use only on non-combustible surfaces.
	Replace all broken protective covers.
	Minimum distance from illuminated objects (in meters).
	Rated maximum ambient temperature.
	For indoor use only.
	Do not point the lens directly at the sun or at strong light sources.
	Do not manually adjust or move the device while in operation.

➤ **Unpacking and checking**

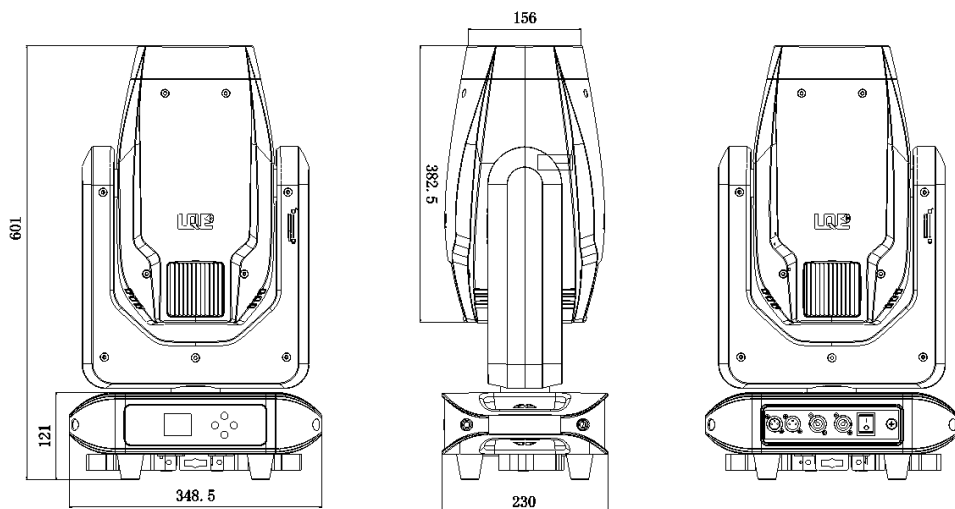
- ◆ Before receiving the product for use, please disassemble and carefully inspect for any damage due to transportation, and check if the following accessories are complete, if damaged, please do not use this fixture and quickly contact the distributor or manufacturer.

Item	Quantity	Item	Quantity
Power Cord	1	Signal Cable	1
Safety cable	1	Instruction manuals	1
warranty and quality certificate	1		

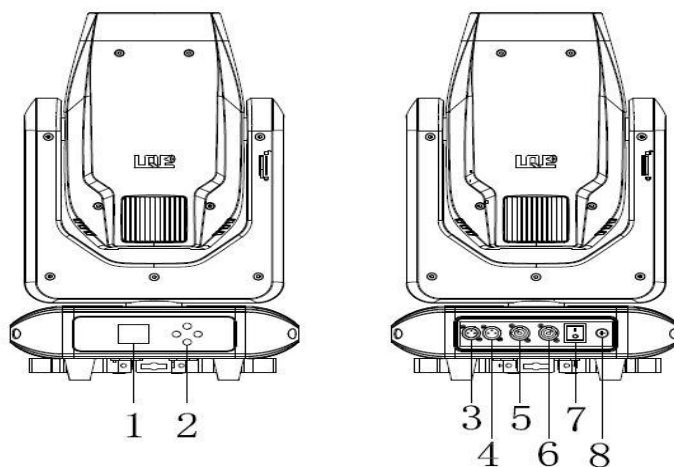
- ◆ This product is limited to indoor installation and use, the protection level of IP20, the lamps should be kept dry, do not use in dusty or humid environment, in order to bring you a better use of the effect, it is recommended that every three months cleaning and maintenance, cleaning and maintenance or long-term non-use of the power supply unplugged.
- ◆ installation, operation and use of lamps and lanterns should be carried out by professionals.
- ◆ In order to make the lamps and lanterns can be used stably for a long time, please do not run in the environment below 0°C or above 40°C.
- ◆ It is strictly prohibited to connect the fixture directly to other dimming equipment or audio/video equipment.
- ◆ Please do not place combustible items around the lamps and lanterns when running, prohibit metal appliances, water, flammable and other objects into the lamps and lanterns inside, so as not to cause damage to the internal electronic devices, personnel electrocution or fire, in case of the above objects into the lamp body, please immediately turn off the power supply and deal with it by a professional.
- ◆ product surface temperature after stable operation can reach 70 °C, do not touch with bare hands, do not look directly at the eyes during operation to avoid eye damage.
- ◆ There is no maintenance or replacement parts inside the lamp, please do not open the lamp shell without authorization.
- ◆ If the product malfunctions, please stop using it immediately, find

professional personnel to check and repair, if you need to provide technical assistance, please contact the distributor or manufacturer.

2. Product Size







3. Control panel



1.Display panel
2.Light touch buttons
3.DMX Input
4.DMX Output

5.Power input
6.Power Output
7.Switch
8.Fuse

1. Display panel key function description

Function	Description	Function Description
	Menu key	View or modify fixture function settings
	Up button	Selects the function menu upwards
	Down button	Selects the function menu
	Confirmation key	Confirms the function menu you have selected

4. Technical parameters

4.1 Luminaire Specification Description

- ◆ Power source and Signal
 - Input voltage: AC100-240V ~ 50/60Hz
 - Rated power: 500W
 - Power connector: PowerCon in/out
 - Signal connector: 3Pin gold-plated XLR design (one in, one out)
- ◆ Light source
 - Light source: PHILIPS MSD Silver 380W-2LL
 - Lamp life: 2000 hours
- ◆ Colour
 - Colour temperature: 7000K
 - Fixed colours: 11 different colours + open

CTO: tunable from 2800K to 7000K

◆ Gobo

Fixed gobos: 14 gobos + open

Rotating gobos: 11 gobos (pluggable) outer diameter 12.9mm, effective pattern diameter 8mm

◆ Prism

8 prisms (22°) , 8+16 prisms (15°+26°), prisms can be rotated in both directions

◆ Product specifications

Control Method: DMX 512, RDM, automatic, voice controlled

Channel mode: Standard modes 19CH

Fogging system: independent frost lens, light transmission rate of more than 90%, soft and natural light spot.

Six-color mode: with the prism to output six colors of the rainbow effect

Zoom angle: 2°-40°, linear dimmer.

Dimming system: 0-100% linear adjustment

Strobe system: dual-chip mechanical strobe (1-10 times / sec), optional random strobe and pulse strobe

◆ Other Features

Display system: 1.8-inch LCD, Chinese and English display, 180-degree rotation

◆ Physical parameters

Protection grade: IP20

Working environment: 0-40°C

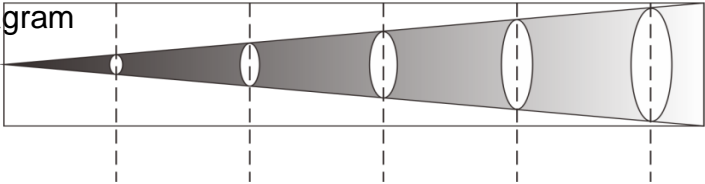
Product size: L349×W230×H601(mm)

Product weight: 18.8KG (including lamp hook)

Product Appearance: environmentally friendly flame retardant, high temperature nylon fiber housing, protection class IP20, folding one-piece rotating lamp hook.

4.2 illuminance diagram

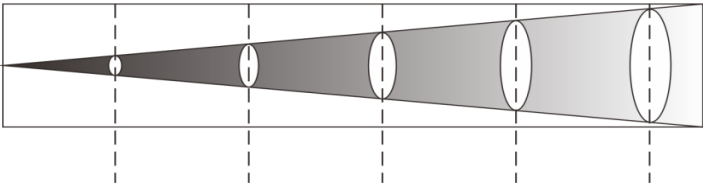
Beam angle: 2°
full brightness



Distance (meters)	5	10	15	20	25
Illumination	851888	196102	84648	47344	31325

Test Distance (M)	5	10	15	20	25
spot diameter (M)	0.19	0.40	0.64	0.86	1.03
illumination (lux)	851888	196102	84648	47344	31325

Beam angle: 40°
full brightness



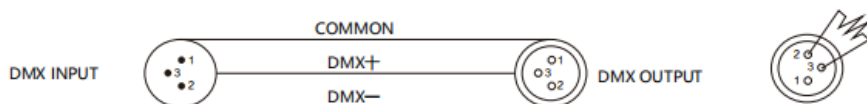
Distance (meters)	5	10	15	20	25
Illumination	16447	1748	1028	658	457

Test Distance (M)	5	10	15	20	25
spot diameter (M)	3.64	7.28	10.92	14.56	18.20
illumination (lux)	16447	1748	1028	658	457

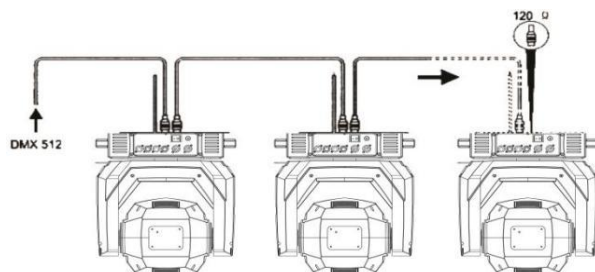
5. Control signal line connection

5.1 signal connection

Connect the XLR-XLR control cable from the DMX output port of the controller to the DMX input port (3-pole or 5-pole XLR holder) of the first fixture, and from the DMX output port of the first fixture to the DMX input port of the second fixture, and so on, until all fixture strings are connected.



3 pole XLR: PIN 1: GND, PIN 2: negative signal, PIN 3: positive signal.



Note: Please remember to connect a loop plug to the signal output of the last fixture, this loop plug connects a 1/4W 120 ohm resistor between pin 2 and pin 3 of the CANON (XLR) plug, connecting this loop plug can effectively avoid the signal reflection phenomenon generated by DMX512 signal in the process of transmitting inputs, when transmitting signals over long distances, it is necessary to use a DMX512 signal amplifier, connect to the signal amplifier input from the controller, and then connect to the fixture from the output, the last one plugs in the terminal plug. The controller is connected to the signal amplifier input, and then connected to the lamps from the output, and finally that one plugs in the terminal plug.

5.2 DMX Address Code Setup:

Channel Mode	First fixture address	Second fixture address	Third fixture address	Fourth fixture address
19CH	1	20	39	58

6. menu settings

Setting	Operating mode		DMX	manual mode	1. Pan
	DMX address		001		2. Pan fine tuning
	Channel mode		19CH		3. Tilt
	Sound sense adjust		+002		4. Tilt fine tuning
	Pan Reverse		Off		5. P/T speed
	Tilt Reverse		Off		6. Shutter/strobe
	P/T Swap		Off		7. Dimming
	P/T Encoder		On		8. Color wheel
	No DMX signal		Hold		9. Gobo wheel
	Screen saver		On		10. Rotating gobo
	Power On Bulb		Off		11. Rotating gobo rotation
	Restore Default Setting				12. Prism 1/2
					13. Prism rotation
					14. Six Colors
system	DMX channel value monitoring				15. Atomization
	System error logging				16. CTO
	Lamp Temperature				17. Focusing
	Lamp Status				18. Magnification
	Total usage time				19. Lamp Control & Reset
	Current Use Time				
	Total Lamp On Time				
	This time				
	DIS: J009-MHY380SII-*				
	N: J009-MHY380SII-*				
	XY: J009-MHY380S II -*				

high
grade

- Sensor Monitoring
- Reset Calibration →
- Pattern Color Zero Calibration

Pan calibration	000
Tilt calibration	000
Color Calibration	000
Fixed gobo Calibration	000
Rotated gobo Calibration	000
Rotated gobo Rotation Calibration	000
Prism 1 Calibration	000
Prism 2 Calibration	000
Focus Calibration	000
Magnification Calibration	000
Atomation Calibration	000
CTO Calibration	000
Strobe Calibration	000
Six Color Calibration	000
4FanLA Calibration	000

-----Chinese and English switching

-----Screen rotation

-----Reset

-----Bulb

➤ Settings

Manuel	Description	
operating mode	DMX	Slave status: Receive DMX signals from console or master
	self-propelled	Master status: self-propelled and sends DMX signals to slaves
	pragmatic	
	voice-controlled	
DMX address	1~512	Press “OK” to enter the editing

		state. At this time is a separate number of increments, long press the “up and down” key can be fast dialing code.
channel mode	Standard 20CH	20-channel mode
Voice-activated sensitivity adjustment	+000	Adjust the numbers to adjust the sensitivity
P Reverse	Off	
	On	
T Reverse	Off	
	On	
P/T exchange	Off	
	On	Exchange of P/T channels (including fine-tuning)
P/T Encoder	On	Use of encoders (magnetic positioning) to determine out-of-step and automatically correct the position
	Off	Position correction without encoder (magnetic positioning)
No DMX signal	remain	Continue to run in the original state
	reset	Motor returns to position and stops running
screensaver	On	
	Off	
power on and off	Off	Reset directly after power up, no light bulb (need to use menu or console to light bulb

		manually)
	On	Automatically light up the bulb after powering on, and reset only when the bulb lights up successfully
Restore Default settings		Press “OK” to see the confirmation dialog box, press “OK” again to restore the default settings.

7. Channel list

Channel	channel mode	
	19CH	
1	Pan	
2	Pan fine tuning	
3	Tilt	
4	Tilt fine tuning	
5	P/T Speed	
6	shutter/strobe	
7	Dimming	
8	Color wheel	
9	Gobo wheel	
10	Rotated gobo	
11	Gobo Rotation	
12	Prism 1/2	
13	Prism Rotation	
14	Six Colors	
15	Atomization	
16	CTO	
17	Focusing	

18	Zoom	
19	Lamp Control & Reset	

Channel mode (19 channels)

Channel	channel value	function	remark
1	000-255	Pan 0 °→540 °	
2	000-255	Pan fine adjustment 0 °→270 °	
3	000-255	Tilt 0 °→540 °	
4	000-255	Tilt fine adjustment 0 °→270 °	
5	000-255	P/T speed Fast to slow	
6	000-003 004-103 104-107 108-148 149-188 189-237 238-251 252-255	strobe Light Closed Regular Strobe Light On Slow On Fast Off Pulse Strobe Fast On Slow Off Pulse Strobe Fade Pulse Strobe Random Strobe On	
7	000-255	Dimming 0%~100%	

8		Color wheel	Every 5 values correspond to a gobo
		White	
	000-004	White + Red	
	005-009	Red	
	010-014	Red+Green	
	015-019	Green	
	020-024	Green + Blue	
	025-029	Blue	
	030-034	Blue + Yellow	
	035-039	Yellow	
	040-044	Yellow+Orange	
	045-049	Orange	
	050-054	Orange + Light Yellow	
	055-059	Light Yellow	
	060-064	Light Yellow + Light Red	
	065-069	Light Red	
	070-074	Light Red+Blue Green	
	075-079	Blue-Green	
	080-084	Blue-Green+Rose	
	085-089	Rose	
8	090-094	Rose+Purple	
	095-099	Purple	
	100-104	Purple + Fluorescent	
	105-109	Fluorescent	
	110-114	Fluorescent + White	
	115-119	Counterclockwise rotation,	
	120-180	fast to slow	
	181-255	Clockwise rotation, slow to fast	
		Fixed gobo	

9	000-004	Open	Every 5 values correspond to a gobo
	005-009	gobo 1	
	010-014	gobo 2	
	015-019	gobo 3	
	020-024	gobo 4	
	025-029	gobo 5	
	030-034	gobo 6	
	035-039	gobo 7	
	040-044	gobo 8	
	045-049	gobo 9	
	050-054	gobo 10	
	055-059	gobo 11	
	060-064	gobo 12	
	065-069	gobo 13	
	070-074	gobo 14	
	075-079	(rotated gobo wheel	
	080-149	open)	
	150-200	Gobo wheel shake,	Every 5 values correspond to a gobo
	201-255	slow to fast	
		Counterclockwise	
		rotation, fast to slow	
		Clockwise rotation, slow to fast	
		Rotating gobo	Every 5 values correspond to a gobo
	000-009	Open	
	010-019	Rotating gobo 1	
	020-029	Rotating gobo 2	
	030-039	Rotating gobo 3	
	040-049	Rotating gobo 4	
	050-059	Rotating gobo 5	

10	060-069 070-079 080-089 090-099 100-109 110-119 120-174 175-215 216-255	Rotating gobo 6 Rotating gobo 7 Rotating gobo 8 Rotating gobo 9 Rotating gobo 10 Rotating gobo 11 Gobo wheel shake, slow to fast Counterclockwise rotation, fast to slow Clockwise rotation, slow to fast	
11	000-127 128-190 191-192 193-255	Rotated gobo rotation Angle adjustment (0°-360°) Positive rotation from fast to slow Stop Slow to fast reverse	
12	000-127 128-200 201-255	Invalid Prism 1 (8 prisms) Prism 2 (8+16 prisms)	

13	000-127 128-200 191-192 193-255	Prism rotation Slide effect Counterclockwise rotation, speed from fast to slow Stop Clockwise rotation, speed from slow to fast	
14	000-127 128-255	six colors turn off turn on	
15	000-127 128-255	atomization Off On	
16	000-255	CTO 0%~100%	
17	000-255	Focusing 0%~100%	
18	000-255	Amplification 0%~100%	
19	0-99 100-105 150-159 200-205 250-255	Lamp Control & Reset Invalid Extinguish bulb Small motor reset Bright bulb All motors reset	

8. Difficulty resolution

fault description	Possible causes	Treatment
No action after power on	Power switch is not turned on	Turn on the power switch
	Check whether the fuse is blown, take out the fuse and visually check whether it is blown.	Find out why the fuse blew and replace the fuse with the same parameters after troubleshooting.
	Whether the AC input lines of the lamps and lanterns (AC power socket, power cord of the lamps and lanterns, power cord plug) are intact.	1、Troubleshoot the AC power socket.
	Whether the output DC voltage of the switching power module of the fixture is normal.	2、Replace the power cord of the lamps and lanterns.
Lamps are not controlled	The DMX signal cable of the control system is not connected to the DMX cable of the luminaire.	Using DMX signal cables to connect the control system to the DMX connection of the fixture.
	The DMX signal line connecting the control system and the lamps is open or short-circuited, and the DMX signal line connecting the control system and the lamps is open or short-circuited.	Replace the DMX signal cable.

	Check whether the address code is correct, enter the menu to modify the address code, change the DMX mode to meet the user's requirements.	Configure the address code of the control system with the same value as the "Address Setting" in the "Operation Parameters" item of the fixture, and configure the "Channel Mode Selection" of the fixture according to the customer's requirements.
	The signal input and output of the DMX XLR signal board of the fixture is abnormal, and the main control board of the fixture has no input and output power.	Troubleshoot the DMX XLR signaling board of the fixture, and replace the main control board of the fixture.
Bulb does not light up/dims	Control board function is complete, test the PWM signal is normal	Troubleshooting, Repair or Replacement
	LED driver board function is complete, test the LED driver output, input voltage is normal	Troubleshooting, repair or replacement
	The temperature of the lamp is too high, which triggers the temperature protection device and makes the lamp stop working automatically.	1, air circulation around the lamps and lanterns, the use of cooling, ventilation devices to reduce the temperature of the lamps and lanterns to room temperature.

Misaligned gobo disk or improper control	The motor wire connector connecting the gobo motor to the motor driver is not well connected, and the motor wires are loose, broken, or disconnected.	Reconnect the connector of the motor cable, check whether the motor cable is loose, broken or disconnected, and replace the motor cable.
	The corresponding motor driver board is faulty, check whether the driver board has output.	Replace the corresponding software version of the driver board
	The corresponding magnetic sensitive tube of the gobo disk motor is misaligned with the positioning magnet, or the magnetic sensitive is damaged.	Calibrate the position of the magnetic sensitive tube and the positioning magnet, replace the damaged magnetic sensitive tube.
Misaligned gobo disk or improper control	The gobo disk motor runs unevenly with jitter, misalignment, lost or multiple steps, or the motor does not run.	Examine whether the controller of the motor output pulse frequency is too high, the motor generates serious oscillation or the load is too heavy, the signal line between the motor driver and the controller is broken, and replace the same type of gobo disk motor.

Weak light effect, uneven light spot	Light source is aged, not beyond its useful life, use tool to test illumination.	Replace or continue to use according to customer needs.
	Focusing lens assembly, objective lens, etc. have dust buildup or stains.	Replace or continue to use according to customer needs.
	Optics are broken.	Replacement of optics
impure color	Weak light effect, uneven light spot	Replace the light source or continue to use it.
	The color film has accumulated dust or stains.	Professional technician removed for cleaning.
	The glass gobos and color chips are delaminated, broken or mutilated.	Replaces delaminated, broken and chipped glass gobos and color chips.
Unclear graphics	The glass gobos are dusty or smudged.	Professional technician removed for cleaning.
	There is dust or smudges on the optical lens.	Professional technician removed for cleaning.
	Optical lens is worn.	Professional technician removes replacement

Note: Parts not included with this light model may be ignored; other repairs should be performed by a qualified professional.

9. Maintenance

Lamps require routine cleaning and maintenance, the service life depends greatly on the operating environment and specifications, if in doubt, please consult Shadowflex technical engineers for advice, in this book does not include the repair and maintenance work to Shadowflex qualified technical engineers.

WARNING: Disconnect the power supply before opening the lid when cleaning.

Note: Excessive dust, smoke flow levels and damage caused by abnormal use are not covered by the warranty.

Cleaning the fan and air holes

1. This fixture should be kept dry and avoid working in humid conditions.
2. Intermittent use will effectively extend the life of this fixture.
3. To get good ventilation and lighting effect pay attention to clean the fan and fan mesh and lens frequently.
4. Do not wipe the lamp shell with organic solvents such as alcohol to avoid damage.
5. After disconnecting the power supply, cool down thoroughly and open the cover.
6. Use a vacuum cleaner or pressure blower to gently blow away dust and floating objects.
7. Use odorless cotton paper or cotton cloth soaked with water or distilled water to wipe away particulate matter, do not rub the surface, and use pressure gas to blow away floating matter.
8. Remove dust and residue with cotton cloth or odorless cotton paper soaked in ethyl propanol, or you can use a glass cleaner, but the residue must be removed with distilled water, from the center of the two sides of the circle to wipe and then dry with a soft cotton cloth.