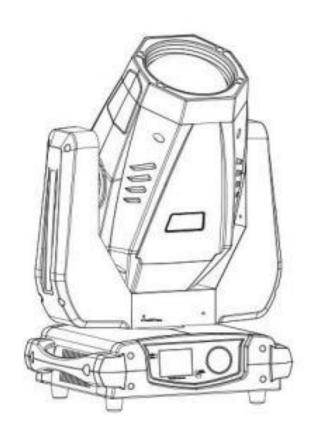


BSW 380 User Manual



Guangzhou Mitek Light Co.,LTD

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Add: No. 21 Dongfeng Avenue, Automobile Industry Base, Huadu District, Guangzhou

TECHNICAL PARAMETERS

Light source

input voltage: AC 200~240V, 50/60Hz (AC100~ 120V, 50/60Hz optional)

power: 470W

lamp source: Osarm Siruis HRI 371W

style: pattern, dyeing, light beam three in one lamp

Optical

color temperature can reach 8000K

beam angle: 2.5-53 degree, linear adjustable lens group optical system, electric focusing

Controls

DMX channel: 16CH/22CH

control panel: color LCD display, can be inverted 180 degrees display.

Effect

color plate: a color plate, with 13 color plates and white light.

pattern plate: two pattern plates, fixed pattern plates, 13 patterns + white light, 9 rotation

patterns. Rotating pattern plate diameter: 4mm effective inner diameter: 13mm

effect wheel: two rotatable prisms, a circle eight prism, a straight line six prism, (prism

optional).

independent atomization function.

0-100% mechanical dimming, supporting mechanical strobe and adjustable speed stroboscopic effect, supporting stroboscopic macro function.

Construction

the magnetic reset system is more accurate than the traditional photoelectric reset, and it can be automatically retrieved after accidental malfunction.

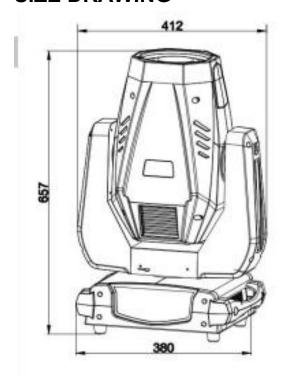
level 540 degree, resolution 8Bit/16Bit, vertical 270 degree, resolution 8Bit/16Bit cooling system, built-in convection fan, with overheating protection function.

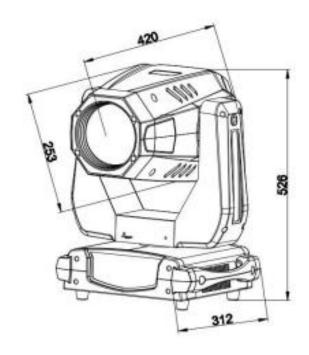
IP protection level: IP20

high efficiency and reliable switching power supply



SIZE DRAWING

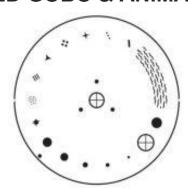




COLOR WHEEL



FIXED GOBO & ANIMATION WHEEL



ROTATING GOBO WHEEL



















Preface

First! Thank you very much for choosing our moving head light.

This product is a high performance beam moving head light, the appearance structure high end atmosphere, the advanced electronic control technology and the excellent humanized industrial design. The light lamp cup and the bulb are a whole, the arc length is very short, the output brightness is strong and the light angle is small, the average service life of the light source is 1500 hours, equipped with Rich color and pattern, 2 rotating prism, 1 atomization effect. Light weight, fast vertical and horizontal scanning speed, low operation noise, low power 500W, energy saving and environmental protection..

It has a wide range of applications and simple installation; it can be used for large fixed stage lighting, background dyeing, large theatrical performances, gymnasium lighting, temporary stage performance, city lighting system, television station, conference center, professional theater, park, singing and dancing hall, bar, small literary and art performances and public environment lighting.

Note

After receiving the luminaire, please open the package to check whether there is any damage caused by transportation. If there is any damage caused by transportation, please do not use this lamp, and as soon as possible with the dealer or manufacturer.



This manual contains important information about the installation and use of this luminaire. Please strictly follow these instructions when installing and using.

- ★Please read all the contents of this manual carefully. (use the handbook to keep the lamp at the same time for reference)
- ★In order to ensure proper, safe installation, use and maintenance of this product, we must understand and follow the contents of this manual.



- ★The manufacturer shall not be liable for any lamp, property or personal injury caused by failure to install, use and maintain the manual.
- ★If you have other questions about how to operate the equipment safely, please contact the distributor or call the service hotline.



!!! Warning: a protective screen, lens, or lens on a lamp, if there is a visible damage (that is, the damage to the degree of failure), such as a crack or a deep mark, should be replaced and used again.



When suspending the installation of luminaires, it is necessary to verify that the suspension facilities and the lamp hooks can bear more than 10 times the weight of the luminaire and there is no damage to the installation facilities. After installation, the safety rope must be used as an auxiliary safety mode, and the lamps should be fixed to other facilities that can bear the weight of lamps.



The personnel who have electrical connection to the luminaire must have the corresponding operation qualification before they can operate.

When energizing, make sure that the power supply voltage you use is consistent with the voltage indicated by the luminaire, and there is overload or leakage protection..



The minimum distance between any point on the luminaire surface and any combustible material is 5 meters when the lamp is installed and positioned.

Please do not install lamps directly on the surface of ordinary combustible materials

Lamps should be dry and avoid being used in damp, overheated or dusty environments.



Ensure that the ambient temperature of normal and stable lamps is not more than 45 C, and the minimum temperature should not exceed -20 C.

Under the condition of stable heat dissipation, the maximum temperature of the surface of the luminaire can reach 75 degrees centigrade. Do not touch it with your hands.

ta=45°C

Before lamps are not used, cleaned or maintained, please ensure that the power is in a state of disconnection, and do not pull or drag the power cord directly.

- In order to ensure the service life of the product, the product should not be placed in damp or leaking places, and can not work in the environment with a temperature above 60 degrees.
- Do not place this product in loose or vibrant places.
- To avoid danger of electric shock, please repair the product for professional maintenance.
- When the bulb is used, the supply voltage should not exceed 10%. If the voltage
- is too high, the life of the bulb will be shortened. If the voltage is too low, the light color of the bulb will be affected.
- In order to ensure the normal use of this product, please read the instructions carefully.
- This lamp should be kept dry and avoid working in damp environment.
- The intermittent use will effectively prolong the service life of this luminaire.
- In order to obtain good ventilation effect and lighting effect, clean the fan net and lens frequently.
- Please do not use the organic solvents such as alcohol to wipe the shell of the
- lamp to avoid damage.

★After power failure, it will take 20 minutes to fully cool the lamp before it can be energized again.

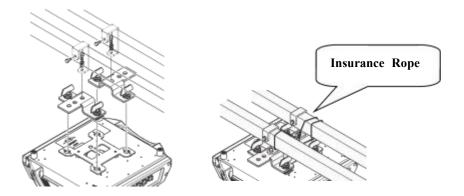
Schematic drawing of lamps and lanterns

- Luminaire can be placed horizontally, slant and upside down. It is necessary to pay attention to the installation method when it is slant and upside down.
- As shown below, to ensure the stability of the installation location before the positioning of the lamp, it is necessary to ensure that the lamp should not fall down on the support frame when the reverse



hanger is mounted and that the safety rope is required to be suspended through the support frame and the lamp holder in order to ensure safety and prevent the falling and sliding of the lamps.

- When the luminaire is installed and tested, pedestrians are forbidden to pass through. The safety rope is regularly checked for wear and whether the hook screws are loose.
- If the hanging installation is not stable, resulting in all the consequences of the fall of lamps, I will not assume any responsibility.





After the lamp is hung up, add an insurance rope to the lamp holder!

DMX Signal connection

DMX signal connection method: from the controller to the input of the first luminaire near the controller, and then from the output end of the lamp to the input end of the next lamp. And so on, until the lamp connection is finished.

When the long distance transmission signal (more than 150m) or more than 30 single road lamps and lanterns is over, the DMX512 signal amplifier is added to the middle of the line to ensure the signal connection is stable and normal, and then the final fixtures are inserted with the terminal to improve the data transmission quality.

★To ensure stable transmission of signals, use shielded twisted pair cable to comply with DMX512 signal transmission.

Display panel operation and function settings

Note: do not use sharp or sharp objects to click on the display screen to prevent damage.

LCD display home page Introductions

Main Menu	Second	Third	Fourth
Dmx Address	000 - 512		
	Dmx Mode	STD / EXT	
	Run Mode	DMX / Host	
Fixture	Pan Invert	Close / Open	
	Tilt Invert	Close / Open	
	Lamp On Power	Close / Open	



	Lamp Control	Close / Open	
	Data Recover	Close / Open	
	Pan	000 - 255	
	PanFine	000 - 255	
	Tilt	000 - 255	
Manual	TiltFine	000 - 255	
	:	:	
		Current Time	xxxH
	Time	Total Time	xxxH
		Power Count	XXX
Information		Pan	
information	Sensor	Tilt	
		<u> </u>	
	Software Version	Panel	Vx.xx
		Motor	Vx.xx
	Password	000 - 255	
	Pan	000 - 255	
	Tilt	000 - 255	
Factory	Dimmer	000 - 255	
	Color	000 - 255	
	Fix Gobo	000 - 255	
		<u> </u>	
	XY Reset	OFF / Run	
Fixture Reset	Motor Reset	OFF / Run	
Fixture Reset	All Reset	OFF / Run	
	Factory	OFF / Run	
	Language	CH / EN	
Display	Display Flip	Normal / Reverse	
	Display Mode	60s / Show	

DMX Channel Table

Channel		DMX	Function
22	16		
1	1		Pan
		0-255	Pan 540°
2	*		Pan Fine
		0-255	Pan Fine 2. 11°
3	2		Tilt
		0-255	Tilt 246°
4	*		Tilt Fine
		0-255	Tilt Fine 1°
5	3		Pan/Tilt Speed
		0	Max speed
			Speed mode
		1-255	Speed from max. to min.
			Time mode
		1-255	Time from 0. 1 sec to 25.5 sec
6	4		Power/ Special functions
		0- 19	Empty
			To activate the following functions, stop in DMX value for at least 3s
			and shutter must be closed at least 3s("Shutter/Strobe" channel 22/
			15/28/ 17must be at range:0-31 DMX). Corresponding menu
			items are overwritten temporarily.
		20-24	ECO mode (Lamp power 230W)
		25-29	Standard mode (Lamp power 280W)
		20 20	· · · · · · · · · · · · · · · · · · ·
		30-39	Rot. Gobo speed mode
		40-49	Rot. Gobo time mode
		50-59	Pan/Tilt speed mode
		60-69	Pan/Tilt time mode
		70-79	Blackout while pan/tilt moving
		80-89	Disabled blackout while pan/tilt moving
		90-99	Blackout while color wheel moving
		100- 109	Disabled blackout while color wheel moving
		110- 119	Blackout while gobo wheel moving
		120- 129	Disabled Blackout while gobo wheel moving
			To activate the following functions, stop in DMX value for at least
			3 seconds:



	-		
		130- 139	Lamp On, reset (total reset except pan/tilt)
		140- 149	Pan/Tilt reset
		150- 159	Color system reset
		160- 169	Gobo system reset
		170- 179	Dimmer/ Shutter reset
		180- 189	Zoom/ focus/ prism reset
		190- 199	Reserved
		200-209	Total reset
		210-219	Synchronization of random strobe - On
		220-229	Synchronization of random strobe - Off
		230-239	Lamp Off
		240-255	Empty
7	5		Color wheel
		0- 129	Continual positioning
		130- 189	Step Positioning
		190-218	Forwards rainbow effect from fast to slow
		219-220	No rotation
		221-249	Backwards rainbow effect from slow to fast
		250-255	Auto random color selection from fast to slow
8	*		Color wheel fine positioning
		0-255	Fine positioning
9	6		Static gobo wheel
		0-3	Open/ Hole
		4-87	Gobos with no shake
		88-200	Shaking gobos
		201	Open/ Hole
		202-224	Forward gobo wheel rotation from fast to slow
		225-226	No rotation
		227-249	backward gobo wheel rotation from slow to fast
		227-249 250-255	backward gobo wheel rotation from slow to fast Auto random gobo selection from fast to slow
10	7		
10	7	250-255	Auto random gobo selection from fast to slow
10	7	250-255 0-4	Auto random gobo selection from fast to slow Rotating gobo wheel Open/ Hole
10	7	250-255 0-4 5-76	Auto random gobo selection from fast to slow Rotating gobo wheel Open/ Hole Gobos with no shake
10	7	250-255 0-4 5-76 77- 199	Auto random gobo selection from fast to slow Rotating gobo wheel Open/Hole Gobos with no shake Shaking gobos
10	7	250-255 0-4 5-76	Auto random gobo selection from fast to slow Rotating gobo wheel Open/ Hole Gobos with no shake

		227-249	Backward gobo wheel rotation from slow to fast
		250-255	Auto random gobo selection from fast to slow
11	8		Rot. gobo indexing and rotation
		0	No rotation
		1- 127	Gobo indexing
		128- 190	Forward gobo rotation from fast to slow
		191- 192	No rotation
		193-255	Backward gobo rotation from slow to fast
12	9		Prism
		0- 19	Open position (hole)
		20-75	Prism 1
		76- 127	Prism 2
		128-255	Double Prisms
13	10		Prism 1 rotation
		0- 127	Indexing
		128- 190	Forward prism rotation from fast to slow
		191- 192	No rotation
		193-255	Backward prism rotation from slow to fast
14	11		Prism 2 rotation
		0- 127	Indexing
		128- 190	Forward prism rotation from fast to slow
		191- 192	No rotation
		193-255	Backward prism rotation from slow to fast
15	12		Zoom
		0-255	Zoom from max. to min beam angle
16	*		Zoom (Fine)
		0-255	Fine: Zoom from max. to min beam angle
17	13		Focus
		0-255	Continuous adjustment from far to near
18	*		Focus (Fine)
		0-255	Fine: from far to near
19	14		Shutter/ Strobe
		0-31	Shutter closed (Lamp power reduced to 230W)
		32-63	Shutter open, full lamp power
		64-95	Strobe effect from slow to fast

		96- 127	Shutter open
		128- 143	Opening pulse in sequences from slow to fast
		144- 159	Closing pulse in sequences from fast to slow
		160- 191	Shutter open
		192-223	Random strobe effect from slow to fast
		224-255	Shutter open , full lamp power
20	15		Dimmer
		0-255	Dimmer intensity from 0% to 100%
21	*		Dimmer (Fine)
		0-255	Dimmer intensity from dark to bright
22	16		Frost
		0-63	No frost
		64-255	Frost

Matters needing attention

- Check whether the local power supply meets the rated voltage
- requirements of the product, and the leakage protector and over current protector meet the load requirements.
- Please do not use insulated conductor which has been damaged.
- The lamps and lanterns use strong wind refrigeration, easy to accumulate dust, it must be cleaned once a month, especially the heat dissipation tuyere, otherwise the dust will be blocked, resulting in bad heat dissipation and abnormal luminaires.
- When fixing the luminaire, the fastening screws must be fastened and equipped with safety cables and checked regularly.
- In the installation and positioning of the lamps and lanterns, any point on the surface of the lamp and any easy to burn explosive, keep the minimum distance of 10 meters and the distance of 4 meters from the illuminant, please do not install the lamp directly on the surface of the combustible material.
- The continuous working time of lamps and lanterns should not be more than 10 hours, the interval of
 continuous starting lamps should not be less than 10 minutes, otherwise it will not be triggered
 normally because of the protection of the light bulb.
- The closing time of using on-off valve should not exceed 5 minutes. If you need to shut down the light for a long time, you should use the console (light control channel) to turn off the light bulb.
- In order to ensure that many lamps and lanterns comply with the effect of the scene better, the lamps should not always be in the unfinished scene, that is, start the next scene action, it is best not more than 3 minutes to ensure that multiple lamps can run synchronously.
- During the process of use, if lamps and lanterns are abnormal, they should stop using lamps in time to prevent other faults.



Common faults and attention to use

★The lamps and lanterns contain specialized components such as PCB, high voltage power and so on. For your safety and product life, non professionals should not disassemble the lamps and accessories without authorization.

★Light bulb is not bright

Possible cause: the bulb is not completely cooled or the bulb reaches its life.

Because of abnormal operation, the light bulb is not completely cooled, the lamp body should be cooled for more than 10 minutes, so that the interior of the lamp is fully restored to normal state, and then the power supply can be restarted again.

To check whether the bulb reaches service life, new bulbs should be replaced.

Check whether the lamp and the lamp line are leakage, falling off or poor contact. Replace the new lighting device.

★The light is dim

Possible reasons: light bulbs are used for a long time or the light path is not clean. To check whether the bulb reaches service life, new bulbs should be replaced.

Check whether the optical components or light bulbs are clean, and whether there is dust on the light bulb and other optical devices, it is necessary to regularly clean and maintain the light bulb and the components in the lamps and lanterns.

★Pattern projection blur

Check whether the value of the electronic focus channel is suitable for the projection distance now.

★The lamps and lanterns work intermittently

Possible reasons: the internal line is protected.

Check whether the fan operates normally or whether it is dirty or not, causing the interior temperature of the luminaire to rise.

Check if the internal temperature control switch is closed.

Check whether the bulb is in service life and replace the new bulb.

★After the restoration of normal lamps do not accept the control console

Possible reasons: signal line fault or lamp parameter setting is not normal, are as follows:

Check the connections starting address code and check the DMX signal line (the signal line cable is intact, connect head connection is loose); With the signal amplifier, plus 120 ohm resistor terminal;

Check lamp parameters, ensure lamps in DMX mode.

★The luminaire can not start

Possible cause: poor power supply line, handling as follows:

Check whether the fuse on the power input socket is blown or not, and replace the insurance. Lamps cause poor contact in long distance transportation due to vibration.

REMARK

The product has perfect performance and intergrity packing.

All users should be strictly comply with the warning and operating instructions as stated.

Or we aren 't in charge of any result by misusing.

Any damage resulting by misuse is not within the Company 's warranty.

Any fault or problem caused by neglecting the manual is also not in the charge of dealers.

Errors and omissions for every information given in this manual excepted.

All information is subject to change without prior notice.

