User Manual

SBW 380 CMY



Check that the unit has not been damaged during transport



Read all cautions and warnings prior to operation of this equipment

Protection Against Fire



- 1. Maintain a minimum of 1 50cm distance from any type of flame
- 2. Replace fuse only with the specified type and rating
- 3. Do not install the unit to close a heat source
- 4. Make sure cable are properly secured away from unit movement
- 5. Maximum surface operating temperature 80°

Protection Against Electrical



- 1. Disconnect power before servicing
- 2. The unit must be earthed (electronically grounded)

Protection Against Mechanical Hazards



- 1. Use safety chain when hanging unit
- 2. Use quality clamps or bolts when positioning unit
- 3. Do not open unit while it is on, risk of electrical shock

Technical Information

Source

- Light Source: OSRAM SURIUS HRI 461 W bulb (7000K)
- Average Lifetime: 2,000 Hour

Power

- Input Voltage: 100-240VAC, 50/60Hz
- Power Consumption: 550W max

Optical System

- Zoom: 2.9°- 40° linear motorized
- Focus: Motorized focus controllable linearly
- Frost: Motorized frost controllable linearly
- Strobe: 0-20Hz variable speed, synchronization, pulse and random strobe
- Dimmer: 0-100% variable linear dimming curves

Colors

- 11 Dichoric Colors+2 CTO filters, Index / Shake / Bi-directional rotating rainbow effect
- Cyan: 0-100%, Magenta: 0-100%, Yellow: 0-100%, independent CMY mixing system

Gobos

- 7 inter-changeable glass gobos plus open, Shake / Bi-directional rotating rainbow effect
- •11 fixed metal gobos plus open, Shake / Bi-directional rotating rainbow effect
- Animation disk with 5 gobos

Prism

- Prism wheel 1 with 8-facet and linear prism, stackable with prism wheel 2
- Prism wheel 2 with 16-facet and 25-facet prism, stackable with prism wheel 1

Movement

Pan range: 540°, 16bit; Tilt range : 270°, 16bit

Control/Connection

- DMX Channel: 23/26CH
- Control Mode: DMX, Stand-Alone, Sound Control.
- Connector: True-One system with Power In+Out; 3pin DMX Input+Output

Physical

- Body Material: Aluminum+plastic housing+glass
- IP Rate: IP20

Weight/Diameter

- Net Weight: 26kg
- Dimension: 387x309x606mm



Main Power Connection

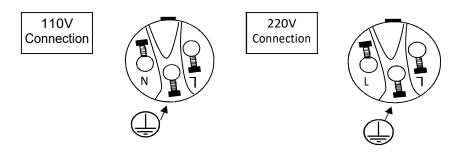
Caution!

- 1. Do not connect fixture to a dimmer system.
- $2. \quad This unit has Autoswitching power supply. \ It will respond to 110 Vor 220 V automatically$
- 3. This unit must be earthed. (Electronically grounded)
- 4. Replace fuse only with the specified type and rating.

The occupation of the connection-cable is as follows:

to 240V from 50Hz to

Cable (USA)	Cable (EU)	Pin	110V	220V
Black	Brown	Live	L	L
White	Light Blue	Neutral	Ν	L
Green	Yellow/Green	Ground		



DMX-512 Connection

The fixture is equipped with 3 pin XLR Sockets for DMX input and output. The sockets are wired in parallel. Only use a shielded twisted pair cable designed for RS-485 and 3 pin XLR plugs and connectors in order to connect the controller with the fixture or the fixture with another.

DMX—input

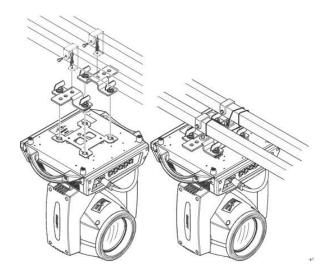


DMX—output

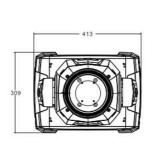


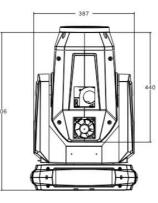
Fixture & Installation

- The fixture can be mounted in any position.
- Always ensure that mounting surface can withstand 10 times the weight of the fixture.
- Always use a safety cable when mounting the fixture in any elevated position.



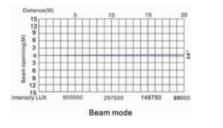
Dimension Drawing (387x309x606mm)

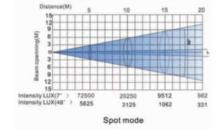


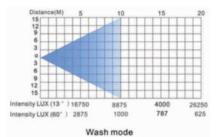




Photometric Data

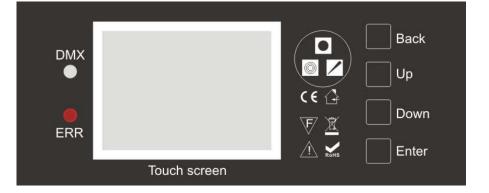






Main Control

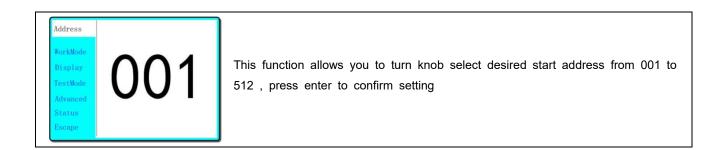
The control board on the fixture base is your interface to access and control all functions on the unit. It's Touch Screen LCD display gives you a code view of the options and functions. The following will explain each function and its options



ATTENTION! DON'T USE SHARP STUFFS TOUCH SCREEN IN ORDER NOT DAMAGE DISPLAY!



This first display let you know main menus the fixture has, the display issues existing dmx address you set. It is touch screen allows you select and confirm setting by hand touch. You are allowed to confirm DMX CABLE/AUTO RUN/LAMP STATUS quickly.



			Press DMX Ctrl to set fixture work at DMX mode
Address	DMX Ctrl		Press Auto Run to run built-in programs
WorkMode	Auto Run		Press Sound Ctrl to set fixture work with sound
Display	Sound Ctrl M/S Choose	OFF	Press M/S Choose to set fixture be master or slave in chain
TestMode	Light Switch	OFF	Press Light Switch ON/OFF to switch lamp
Advanced	Lamp When	Manual	
Status	Channel Qty	Model	Press Manual to set lamp ON via Ch 23/26 at value 200-205
Escape			Press RetDone to set lamp ON after reset. Press PowerON to set lamp ON
~			when fixture connected to power.

Address	语言	English
WorkMode	Screen Saver	Model
Display	Screen Rotate	ON
	Touch Enale	ON
TestMode	Touch Rectify	
Advanced		
Status		
Escape		

Press English to confirm language

Press Screen Saver to set backlight keeps ON/OFF, Model 1 is OFF, Model 2 is ON Press Screen Rotate to invert display ON/OFF Press Touch Enale to set screen touchable ON/OFF Press Touch Rectify to reset screen touch rectification, this function is only for

emergency

Address	01. Strobe	000
WorkMode	02.Dimmer	000
Display	03.Dimmer	000
	04. Colour	000
TestMode	05. Gobo	000
Advanced	06. Rot. Gobo	000
Status	07. Gobo. R	000
Escape	08. Gobo. R F	000

This function allows you control channels manually: 01 Strobe;02 Dimmer;03 Dimmer;04 Colour;: 05 Color;06 Color;07 Color; 08 Gobo;09 Rotating Gobo;10 Gobo Rotation;11 Gobo Rotation Fine;12 Gobo;13 Focus;14 Focus Fine;15 Zoom;16 Prism 1;17 Prism 1 Rotaiton;18 Prism 2;19 Prism 2 Rotation;20 Forst; 21 Pan;22 Pan Fine;23 Tilt;24 Tilt Fine;25 P/T speed;26 Function

Address	Pan Invert	OFF
WorkMode	Tilt Invert	OFF
Display	Pan Offset	010
TestMode	Tilt Offset	010
	Data hold	OFF
Advanced	P/T Rectify	ON
Status	Factory Setting	
Escape	Show Mode	ON

This function allows you to reset some functions as applications need, they are Pan Invert; Tilt Invert; Pan/Tilt fine; Pan/Tilt Sensor correction; Factory Setting; Show Mode

Address	Work Mode	DMX
WorkMode	Address	
Display	Version	C1. 2. 1
TestMode	Elapse	
Advanced	Total	
Status	DMX CTr	Syslist
Escape		

This page displays information of fixture, including: Working Mode;Address Value;Software Version; Power Time;Total Worked Time

Address	4	
WorkMode		
Display		Turn "Escape " back to main display
TestMode		
Advanced		
Status		
Escape		

DMX Profile

26CH	23CH		DMX Value	Description
			0-3	Close
			4-103	Pulse Strobe Slow to Fast
			104-107	Open
CH1	CH1	Strobe	108-207	Strobe Slow to Fast
			208-212	Open
			213-251	Random Strobe Slow to Fast
			252-255	Open
CH2	CH2	Dimmer	0-255	0-100%
CH3	1	Dimmer Fine	0-255	16bit
CH4	СНЗ	С	0-255	Cyan
CH5	CH4	М	0-255	Magenta
CH6	CH5	Y	0-255	Yellow
			0-4	Open
			5-9	White + Color 1
			10-14	Color 1
			15-19	Color 1 + Color 2
			20-24	Color 2
			25-29	Color 2 + Color 3
			30-34	Color 3
			35-39	Color 3 + Color 4
CH7	CH6	Color	40-44	Color 4
			45-49	Color 4 + Color5
			50-54	Color5
			55-59	Color5 + Color6
			60-64	Color6
			65-69	Color6 + Color7
			70-74	Color7
			75-79	Color7 + Color8
			80-84	Color8

			85-89	Color8 + Color9	
			90-94	Color9	
			95-99	Color9 + Color10	
			100-104	Color10	
			105-109	Color10 + Color11	
			110-114	Color11	
			115-119	Color11 + Color12	
			120-124	Color12	
			125-129	Color12 + Color13	
			130-134	Color13	
			135-139	Color13 + White	
			140-199	Forward Color Fast to Slow	
			200-255	Backward Color Slow to Fast	
			0-4	Open	
			5-9	Even lens	
			10-14	Gobo 1	
			15-19	Gobo2	
			20-24	Gobo3	
			25-29	Gobo4	
			30-34	Gobo5	
			35-39	Gobo6	
			40-44	Gobo7	
			45-49	Gobo8	
			50-54	Gobo9	
			55-59	Gobo10	
0 110	<u></u>	Static Gobo	60-64	Gobo11	
CH8	CH8 CH7	(only working with beam mode	65-69	Gobo1 Shake Slow to Fast	
		in CH14/17)	70-74	Gobo2 Shake Slow to Fast	
			75-79	Gobo3 Shake Slow to Fast	
			80-84	Gobo4 Shake Slow to Fast	
			85-89	Gobo5 Shake Slow to Fast	
			90-94	Gobo6 Shake Slow to Fast	
		-	95-99	Gobo7 Shake Slow to Fast	
			100-104	Gobo8 Shake Slow to Fast	
			105-109	Gobo9 Shake Slow to Fast	
		-	110-114	Gobo10 Shake Slow to Fast	
			115-127	Gobo11 Shake Slow to Fast	
			128-190	Forward Rotation Fast to Slow	

			193-255	Backward Rotation Slow to Fast
			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
		Rotating Gobo	70-79	Gobo 7
CH9	CH8	(only working with spot	80-89	Gobo1 Shake Slow to Fast
		mode in CH14/17)	90-99	Gobo2 Shake Slow to Fast
			100-109	Gobo3 Shake Slow to Fast
			110-119	Gobo4 Shake Slow to Fast
			120-129	Gobo5 Shake Slow to Fast
			130-139	Gobo6 Shake Slow to Fast
			140-149	Gobo7 Shake Slow to Fast
			150-199	Forward Rotation Fast to Slow
		-	200-255	Backward Rotation Slow to Fast
		Gobo Rotation (only working with spot mode in CH14/17)	0-63	0-400°
			64-126	Forward Rotation Fast to Slow
0140	0110		127-128	Stop
CH10	CH9		129-191	Backward Rotation Slow to Fast
			100.055	Forward/Backward Rotation
		192-255	Slow to Fast	
CH11	/	Gobo Fine	0-255	
			0-14	Open
			15-29	Gobo 1
			30-44	Gobo 2
			45-59	Gobo 3
CH12	CH10	Animation	60-74	Gobo 4
GHIZ	Спі	Animation	75-89	Gobo 1 Shake Slow to Fast
		Γ	90-104	Gobo 2 Shake Slow to Fast
		Γ	104-114	Gobo 3 Shake Slow to Fast
			115-127	Gobo 4 Shake Slow to Fast
	[128-255	Gobo 5 Slow to Fast	
CH13	CH11	Focus	0-255	Far-Close
CH14	/	Focus Fine	0-255	Far-Close
CH15	CH12	Zoom	0-255	Small-Big
CH16	CH13	Prism 1	0-127	No Function

			11-132	8-Facet Prism
			133-255	Linear Prism
			0-63	0-400° Prism Fine
			64-126	Forward Rotation Fast to Slow
CH17	CH14	Prism 1 Rotation	127-128	Stop
CITT	01114	FIISH I ROLATION	129-191	Backward Rotation Slow to Fast
			192-255	Forward/Backward Rotation Slow to Fast
			0-127	No Function
CH18	CH15	Prism 2	11-132	16-Facet Prism
			133-255	25-Facet Prism
		0-63	0-400° Prism Fine	
		CH116 Prism 2 Rotation	64-126	Forward Rotation Fast to Slow
CH19	CH116		127-128	Stop
OIII3	OITTO		129-191	Backward Rotation Slow to Fast
			192-255	Forward/Backward Rotation
			102 200	Slow to Fast
			000-126	Beam Mode
CH20	CH17	Mode	127-191	Gobo Mode
			192-255	Wash Mode
CH21	CH18	Pan	0-255	0-540°
CH22	CH19	Pan Fine	0-255	0-2°
CH23	CH20	Tilt	0-255	0-270°
CH24	CH21	Tilt Fine	0-255	0-1°
CH25	CH22	Speed	0-255	Fast to Slow
			0-090	No Function
CH26	CH23	Popot	100-105	Lamp Off
6820	UTZS	Reset	200-205	Lamp On
			240-255	Reset

Cleaning!

Due to fog residue, smoke, and dust cleaning the internal and external optical lenses must be carried out periodically to optimize light output.

- 1. Use normal glass cleaner and a soft cloth to wipe off the outside casing.
- 2. Clean the external optics with glass cleaner and a soft cloth every 20 days.
- 3. Always be sure to dry all parts completely before plugging the unit back in.

Cleaning frequency depends on the environment in which the unit operates (i.e. smoke, fog residue, dust, dew).

Unit not responding to DMX:

Check that the DMX cables are connected properly and are wired correctly (pin 3 is "hot"; on some other

DMX devices pin 5 may be "hot"). Also, check that all cables are connected to the right connectors; it does matter which way the inputs and outputs are connected.