User Manual

SBW 470 CMY



Check that the unit has not been damaged during transport



Read all cautions and wa

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, 50/60HzPower 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%

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 + linear prism, stackable with prism wheel 2

• Prism wheel 2 with 16-facet+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

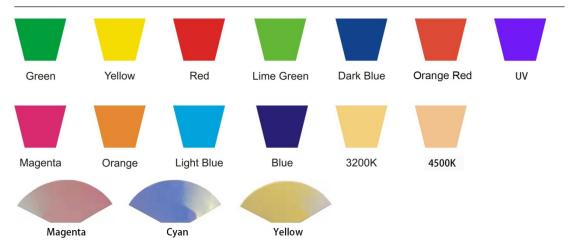
• IP Rate: IP20

Weight/Diameter

• Net Weight: 26kg

• Dimension: 387x309x606mm

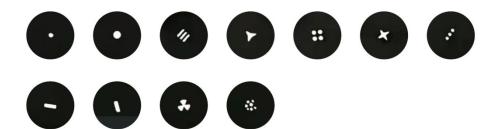
Colour



Rotating Gobos



Fixed Gobos



Animation Disk



Prism Wheels



Main Power Connection

Caution!

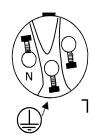
- 1. Do not connect fixture to a dimmer system.
- $2. \quad This unit has Autoswitching power supply. It will respond to 110 Vor 220 Vautomatically$
- 3. This unit must be earthed. (Electronically grounded)
- 4. Replace fuse only with the specified type and rating.

The occupation of the connection-cable is as follows:

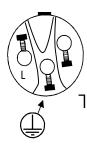
թիլում is equipped with an electronic power supply that will let the unit operate from 90V to 240V from 50Hz to

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

110V Connection



220V Connection



DMX-512 Connection

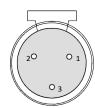
The fixture is equipped with 3 pin XLR Sockets for DMX input and output. The sockets are wired in parallel. Only use a shielded twisted pair cable designed for RS-485 and 3 pin XLR plugs and connectors in order to connect the controller with the fixture or the fixture with another.

DMX—input



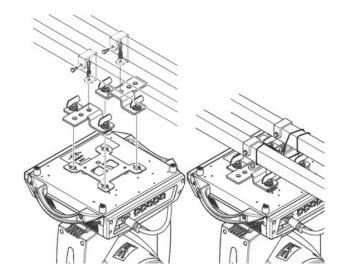
- 1. Shield
- 2. Signal (-)
- 3. Signal (+)

DMX—output

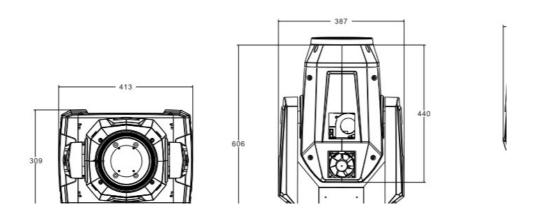


Fixture & Installation

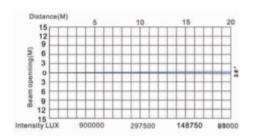
- The fixture can be mounted in any position.
- Always ensure that mounting surface can withstand 10 times the weight of the fixture.
- Always use a safety cable when mounting the fixture in any elevated position.

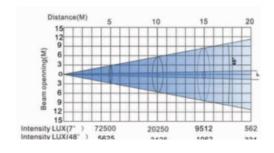


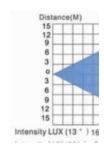
Dimension Drawing (387x309x606mm)



Photometric Data







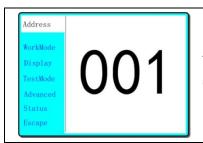
The control board on the fixture base is your interface to access and control all functions on the unit. It's Touch Screen LCD display gives you a code view of the options and functions. The following will explain each function and its options



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.



This function allows you to turn knob select desired start address from 001 to 512 , press enter to confirm setting



Press DMX Ctrl to set fixture work at DMX mode

Press Auto Run to run built-in programs

Press Sound Ctrl to set fixture work with sound

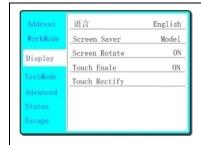
Press M/S Choose to set fixture be master or slave in chain

Press Light Switch ON/OFF to switch lamp

Press Manual to set lamp ON via Ch 20/23 at value 200-205

Press RetDone to set lamp ON after reset. Press PowerON to set lamp ON

when fixture connected to power.



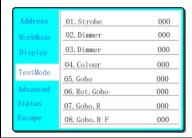
Press English to confirm language

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

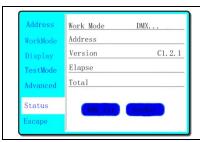
Press Touch Rectify to reset screen touch rectification, this function is only for emergency



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



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



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



Turn "Escape " back to main display

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	
CH4	CH3	С	0-255	Cyan
CH5	CH4	M	0-255	Magenta
CH6	CH5	Υ	0-255	Yellow
			0-4	Open
			5-9	White + Color 1
			10-14	Color 1
		CH6 Color	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
			40-44	Color 4
			45-49	Color 4 + Color5
			50-54	Color5
CUZ	CHE		55-59	Color5 + Color6
CH7	СПб		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	双凹镜
			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
		Static Gobo	60-64	Gobo11
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
		191-192	Stop	
			193-255	Backward Rotation Slow to Fast
			0-9	Open
		Detetion Calls	10-19	Gobo 1
CH9	CH8	Rotating Gobo (only working with spot	20-29	Gobo 2
OHB	0110	mode in CH14/17)	30-39	Gobo 3
			40-49	Gobo 4
			50-59	Gobo 5

			60-69	Gobo 6	
			70-79	Gobo 7	
			80-89	Gobo1 Shake Slow to Fast	
			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	
			0-63	0-400°	
			64-126	Forward Rotation Fast to Slow	
		Gobo Rotation (only working with spot	127-128	Stop	
CH10	CH9		129-191	Backward Rotation Slow to Fast	
	mode in CH14/17)	192-255	Forward/Backward Rotation Slow to Fast		
CH11	/	Gobo Fine	0-255		
		-	0-14	Open	
		15-29	Gobo 1		
		30-44	Gobo 2		
		45-59	Gobo 3		
		Animation	60-74	Gobo 4	
CH12	CH10		75-89	Gobo 1 Shake Slow to Fast	
			90-104	Gobo 2 Shake Slow to Fast	
			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	1	Focus Fine	0-255	Far-Close	
CH15	CH12	Zoom	0-255	Small-Big	
			0-127	No Function	
CH16 CH13	CH13	Prism 1	11-132	8-Facet Prism	
			133-255	Linear Prism	
		CH14 Prism 1 Rotation	0-63	0-400° Prism Fine	
			64-126	Forward Rotation Fast to Slow	
CH17	CH14		127-128	Stop	
			129-191	Backward Rotation Slow to Fast	
			192-255	Forward/Backward Rotation	

				Slow to Fast	
CH18 CH15		15 Prism 2	0-127	No Function	
	CH15		11-132	16-Facet Prism	
			133-255	25-Facet Prism	
		6 Prism 2 Rotation	0-63	0-400° Prism Fine	
			64-126	Forward Rotation Fast to Slow	
CH19	CH116		127-128	Stop	
Citis	CITTIO		129-191	Backward Rotation Slow to Fast	
			192-255	Forward/Backward Rotation	
				Slow to Fast	
		Mode	000-126	Beam Mode	
CH20	CH17		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	
		CH23 Reset	0-090	No Function	
CLIDE	CUO		100-105	Lamp Off	
CH26	CH23		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.