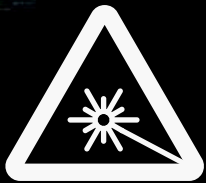


# F18 400W LED BSWF PRODUCT MANUAL



## Specification

- l Rated voltage: AC100V~240V ±10%, 50-60Hz
- l Rated power: 500W
- l Light source: LED module 400W
- l Color temperature: 7300K
- l Lamp Life : 1500 hours
- l Control Mode: DMX, self-propelled, master-slave, voice control
- l DMX Channel: 22/26 international standard DMX channels
- l Input/Output: Standard 3-pin / 5-pin XLR sockets for DMX signal input and output (pass-through).
- l 3 in 1 Optical Lens Design:
- l Beam Mode: 2°
- l Spot Mode: 4°~52°
- l Wash Mode: 2°~46°
- l Strobe: 0.5~2°strobe speed
- l Color Wheel: 1 fixed wheel.6 colors+white light+linear CTO
- l Capable of split color, bi-directional scroll, color change, and half-color rainbow effects.
- l Fixed Gobo Wheel: 1 fixed gobo disc, 9 gobos+white light.
- l Each gobo features shake effect. The wheel provides bi-directional scroll with variable speed.
- l Rotating Gobo Wheel: 1 rotating gobo wheel, 5 optional gobos+white light.
- l Each gobo can rotate clockwise/counter-clockwise and features shake effect. The wheel provides bi-directional scroll with variable speed.
- l Linear CMY function, endless color mixing.
- l Prism Wheel: 1 independent rotating prism, 4 prism;
- l Prism Focus: The prism effect can be linearly focused and zoomed (magnified/reduced), with adjustable sharpness.
- l Focusing: it adopts high-precision glass optical lens, electronic focusing design, and ultra smooth focal length adjustment.
- l Framing System: 8 independent framing shutters for creating triangles, diamonds, rectangles, and other shapes in any orientation.
- l Atomization: 0% -100% uniform soft light atomization effect
- l Horizontal scanning: X-axis: 540°, 16bit,
- l Vertical scanning: Y axis: 270°, 16bit,
- l Signal Protection: Built-in input signal isolation and protection function ensures stable signal transmission.
- l Display: LCD touch screen with physical buttons for intuitive operation. Features bilingual (Chinese/English) interface switching and intelligent 180° auto-rotation for inverted mounting.
- l Intelligent Fan Control: Built-in smart fan with auto-speed adjustment. Automatically reduces fixture power in high-temperature conditions while maintaining low fan speed. Effectively reduces operational noise based on live performance needs, creating a better acoustic environment.
- l Operation Page: Multi-page, categorized menu design. Allows custom function modes for different scenarios, with password lock protection.
- l Protection Grade: IP20
- l Working Temperature: -20 °C~ 40 °C
- l Product Size: 348\*255\*655mm Product Weight: 17kg



## STARSHINE LIGHTS PRODUCT MANUAL





# STARSHINE LIGHTS PRODUCT MANUAL



## Channel List

CH	Channel Mode
	Std.33CH
1	PAN
2	PAN FINE
3	TILT
4	TILT FINE
5	PAN-TILT TIME
6	STOP/STROBE
7	DIMMER
8	CYAN
9	MAGENTA
10	YELLOW
11	CTO
12	COLOUR
13	GOBO
14	GOBO1
15	GOBO1 RT
16	FOCUS
17	FOCUS FINE
18	ZOOM
19	PRISM1
20	PRISM1 RT
21	PRISM2
22	PRISM2 RT
23	FROST
24	CUTTER1
25	CUTTER2
26	CUTTER3

27	CUTTER4
28	CUTTER5
29	CUTTER6
30	CUTTER7
31	CUTTER8
32	ROTATION
33	RESET&FUNCTION



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## Reset and Bulb Control

CH	Effect	Remark
230-255	Invalid Range	Reset begins after remaining in the designated area for 5 seconds
220-229	XY Motor Reset	
210-219	Small Motor Reset	
200-209	Reset All Motors	
70-199	Invalid Range	
60-69	S-Curve Dimming Curve	
50-59	Linear Dimming Curve	
40-49	Inverse-Square Dimming Curve	
30-39	Square Dimming Curve	
0-9	Invalid Range	

## Strobe

BIT	EFFECT	Remark
251-255	UNUSED	Controlled by the dimming channel
250	RANDOM FAST STROBE	
.....	.....	
201	RANDOM SLOW STROBE	
200	FAST STROBE	
.....	.....	
6	SLOW STROBE	
0-5	UNUSED	Controlled by the dimming channel

## Dimming

channel	EFFECT
255	100% Brightness
.....	.....
0	0% Brightness



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Priority: CTO>CMY>COLOUR, GOBO1>CTO

C:Cyan

Channel	EFFECT
255	100%
.....	.....
0	0%

M:Magenta

BIT	EFFECT
255	100%
.....	.....
0	0%

Y:Yellow

BIT	EFFECT
255	100%
.....	.....
0	0%

CTO

BIT	EFFECT
255	100%
.....	.....
0	0%

Y:Yellow

BIT	EFFECT
225-255	COLOUR9
200	COLOUR8
175	COLOUR7
150	COLOUR6
125	COLOUR5
100	COLOUR4
75	COLOUR3
50	COLOUR2
25	COLOUR1
0	WHITE





# STARSHINE LIGHTS PRODUCT MANUAL



BIT	EFFECT
250-255	GOBO8 SHAKE, SLOW to FAST
.....	.....
211-215	S WHITE SHAKE, SLOW to FAST
210	FAST ROTATION
.....	.....
135	SLOW ROTATION
130-134	STOP
129	SLOW ROTATION
.....	.....
100	FAST ROTATION
90-99	WHITE
80	GOBO 8
70	GOBO 7
60	GOBO 6
50	GOBO 5
40	GOBO 4
30	GOBO 3
20	GOBO 2
10	GOBO 1
0	SMALL WHITE



# STARSHINE LIGHTS PRODUCT MANUAL

CH	EFFECT
250-255	GOBO5 SHAKE, SLOW to FAST
.....	.....
231-235	GOBO1 SHAKE, SLOW to FAST
190-230	GOBO 5
150	GOBO 4
110	GOBO 3
70	GOBO 2
30	GOBO 1
0-29	WHITE

## Rotating Gobo

CH	EFFECT
255	FAST ROTATION
.....	.....
193	SLOW ROTATION
191-192	STOP
190	SLOW ROTATION
.....	.....
128	FAST ROTATION
0-127	POSITION

## Zoom

CH	EFFECT
255	100%
.....	.....
0	0%

## Fine Zoom Adjustment

CH	EFFECT
255	100%
.....	.....
0	0%

## Zoom in

CH	EFFECT
255	100%
.....	.....
0	0%

## Prism

CH	EFFECT
128-255	PRISM INSERTED
0-127	PRISM EXCLUDED





# STARSHINE LIGHTS PRODUCT MANUAL



## Prsim Rotating

CH	EFFECT
255	FAST ROTATION
.....	.....
196	SLOW ROTATION
188-195	STOP
187	SLOW ROTATION
.....	.....
128	FAST ROTATION
0-127	POSITION

## Prism 1

CH	EFFECT
128-255	PRISM1 INSERTED
0-127	PRISM1 EXCLUDED

## Frost

CH	EFFECT
128-255	FROST INSERTED
0-127	EXCLUDED

## Prism 1 Rotating

CH	EFFECT
255	FAST ROTATION
.....	.....
196	SLOW ROTATION
188-195	STOP
187	SLOW ROTATION
.....	.....
127	FAST ROTATION
0-127	POSITION

## Framing 1 – Framing 8

CH	EFFECT
255	100%
.....	.....
0	0%

## Framing 1 – Framing 8

CH	EFFECT
255	100%
.....	.....
0	0%



# STARSHINE LIGHTS PRODUCT MANUAL



## Precautions for Use

Check that the local power supply meets the product's rated voltage requirements, and that the ground-fault circuit interrupter (GFCI), overcurrent protection devices, and other safety features are suitable for the connected load;

- Do not use power cords with damaged insulation, and do not splice the power cord to other conductors;
- The luminaire uses forced-air cooling, which is prone to dust accumulation. It must be cleaned once a month, especially the ventilation openings; otherwise, dust buildup may cause blockages, leading to poor heat dissipation and causing the luminaire to malfunction.
- When installing the luminaire, ensure that the mounting screws are securely tightened, install a safety cable, and inspect it regularly;

! When positioning the fixture during installation, maintain a minimum distance of 10 meters between any point on the fixture's surface and any flammable or explosive materials, and a distance of 2.5 meters from the illuminated object. Do not install the fixture directly on the surface of flammable materials;

It is recommended that the fixture not operate continuously for more than 10 hours. The interval between consecutive startups must be at least 10 minutes; otherwise, the bulb's overheat protection may prevent normal activation;

! When using a switch valve to turn off the light, the duration should not exceed 5 minutes. If a longer period of darkness is required, use the control console (bulb control channel) to turn off the bulbs;

! To ensure multiple fixtures better synchronize with scene effects, fixtures should not remain in a state where the current scene has not been completed before starting the next scene action. It is best to limit this state to no more than 3 minutes to ensure synchronized operation of multiple fixtures.

If any abnormalities occur during use, stop using the fixture immediately to prevent triggering other malfunctions;

2) The beam appears dim

Possible causes: The lamp has been in use for a long time or the optical path is dirty. Take the following steps:

! Check whether the bulb has reached the end of its service life; if so, replace it with a new one;

Check whether the optical components or the bulb are clean; if dust has accumulated on the bulb or other optical components, perform regular cleaning and maintenance on the bulb and all internal parts of the fixture.

3) Blurry pattern projection

! Check whether the electronic focus channel value is appropriate for the current projection distance.

4) The fixture operates intermittently

Possible cause: The internal circuitry has entered a protective state. Take the following steps:

! Check whether the fan is operating normally or has become dirty, causing the internal temperature of the fixture to rise;

! Check whether the internal temperature control switch is in the closed position;

! Check whether the bulb has reached the end of its service life; replace it with a new one.

5) The fixture does not respond to control from the console after a normal reset.

Possible causes: Signal cable failure or incorrect fixture parameter settings. Take the following steps:

! Check the start address code and inspect the DMX signal cable connections (ensure the cable is intact and the XLR connectors are secure);

! Add a signal amplifier and a 120-ohm terminating resistor;

! Check the fixture's parameter settings to ensure it is in "DMX Mode," and verify that the "CH20 Operating Mode" channel in the DMX channel is set to the "DMX Mode" data range of "0-49."

6) The fixture fails to start

Possible causes: Faulty power supply circuit. Take the following steps:

! Check if the fuse in the power input socket has blown; replace the fuse;

! Poor circuit contact caused by vibration during long-distance transport;

! Inspect the input power supply, circuit board, and other connectors.

Do not place this product in a location prone to loosening or vibration.



# STARSHINE LIGHTS PRODUCT MANUAL



## Light Fixture Installation

Light fixtures can be mounted horizontally, at an angle, or upside down. When mounting at an angle or upside down, be sure to follow the correct installation procedures. .

As shown in "Error! Reference source not found," before positioning the luminaire, ensure the installation site is stable. When installing in an inverted suspension configuration, you must ensure the luminaire does not fall from the support frame. Use a safety rope threaded through the support frame and the luminaire's handle to assist with suspension, ensuring safety and preventing the luminaire from falling or sliding.

During installation and commissioning, pedestrians are prohibited from passing beneath the luminaire. Regularly inspect the safety rope for wear and check that the hook screws are not loose. Our company assumes no liability for any consequences resulting from the luminaire falling due to an unstable suspension installation.

## Common Problems and Usage Precautions

### Troubleshooting Common Problems

The light fixture contains specialized components such as a microcomputer circuit board and a high-voltage power supply. For your safety and to ensure the product's longevity, non-professionals must not disassemble the light fixture or related accessories without authorization.

1) The bulb does not light up

Possible causes: The bulb has not fully cooled down, or the bulb has reached the end of its service life. Follow these steps:

l If the bulb has not fully cooled down due to improper operation, allow the fixture to cool for at least 10 minutes so that its internal components can fully return to normal, then turn the power back on;

- Check if the bulb has reached the end of its service life; if so, replace it with a new one;
- Check the wiring between the bulb and the igniter for electrical leaks, loose connections, or poor contact;
- Replace the igniter with a new one.

### Product Precautions

• To ensure the product's service life, do not place this product in damp or water-leaking areas, and never operate it in environments where the temperature exceeds 60 degrees.

● Do not place this product in locations prone to loosening or vibration.

● To avoid the risk of electric shock, have this product repaired by a professional.

● When using the bulb, the power supply voltage should not fluctuate by more than  $\pm 10\%$ .

Excessively high voltage will shorten the bulb's lifespan, while excessively low voltage will affect the bulb's light color.

● After powering off, wait 20 minutes to allow the fixture to cool completely before turning it back on.

● To ensure proper operation of this product, please read this manual carefully.

### Signal Cable Connection (DMX)

Use a specification-compliant RS-485 cable: shielded, 120 ohm characteristic impedance, 22-24 AWG, low capacitance. Do not use microphone cables or cables with different specifications.

Connections must be made using 3- or 5-pin XLR male/female connectors. A 120-ohm impedance-matching resistor (minimum 1/4 W) must be inserted between pins 2 and 3 of the connector.