

# F19 380W BEAM LIGHT PRODUCT MANUAL



**Please read the manual carefully before installing and using the product**

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## 1. Precautions and installation

### 1.1 Notices

Thank you for choosing our company's products! When this product leaves the factory, the performance is intact and the packaging is complete. In order for you to use this product safely and effectively, please read this instruction manual carefully and completely before you use this product. This manual contains important information for installation and use, please install and operate according to the requirements of the manual, and at the same time, please keep this manual properly so that it can be used at any time.

This manual is subject to technical change without notice.

### 1.2 Maintenance

! This fixture is for professional use only.

! If the external flexible cable or wire of this luminaire is damaged, it should be replaced with a special wire or wire provided by the manufacturer or its service agent.

! The light source contained in this luminaire should only be replaced by the manufacturer or its service agent or similar qualified person.

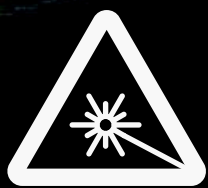
! Always connect the product to a protected circuit (circuit breaker or fuse). Ensure that the product has proper electrical grounding to avoid the risk of electric shock or fire.

! To avoid unnecessary wear and tear and prolong its service life, the power supply should be completely cut off by a circuit breaker or unplugged when not in use.

! The housing may generate heat while the product is operating. This product should be installed in a well-ventilated location.

! When a product is transferred from an extreme temperature environment (e.g., from a cold truck to warm and humid), the internal electronics of the product may condense. To avoid failure, allow the product to fully acclimatize to the surrounding environment before turning on the power supply.

! Flashing lights are known to trigger seizures. Users must comply with local notification laws regarding flash use.



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## 1.3 Product Precautions

- l Disconnect the power supply before cleaning the product or replacing the fuse.
- l When not in use, replace and secure the shields of all power, data, USB, or other ports to IP rating.
- l When installing this product above your head, use a safety cord.
- l Connect this product to a grounded and protected circuit.
- l When the product is turned on, look at the light source.
- l Do not place any flammable materials within 20 cm of this product when operating or plugging in a power supply.
- l Do not operate the product if the housing, lenses, or cables are damaged.
- l Only use handles or hoisting/mounting brackets to handle this product.
- l To avoid unnecessary wear and tear and prolong its service life, the power supply should be completely cut off by a circuit breaker or unplugged when not in use.
- l In case of serious operational problems, it should be discontinued immediately

## 1.4 Product Introduction

- l Input voltage: AC90V-220V
- l Frequency: 50Hz -60 Hz
- l Light source: MSD 380W
- l Rated power: 500W
- l Control channel: 18CH
- l Color temperature: 5600-8000K
- l Output caliber: 152 degrees
- l

### l Function:

- l A color plate: 14 colors + white light
- l A gobo plate: 17 gobos+ white light, with pattern jitter, one-way running water, adjustable speed, any positioning function, the
- l A colorful plate, a fogging plate
- l Prism: a 16 prism, a honeycomb 48 prism, can be rotated in the positive and negative direction, and has a prism positioning function.
- l Three-phase motor . Accurate positioning
- l
- l Dimming: 0-100 dimming
- l Strobe: ultra-fast speed strobe, dual-chip strobe 0.5-14 times / S, with synchronous, asynchronous, random strobe mode, speed adjustable
- l Display: LCD liquid crystal screen, Chinese and English bilingual operating system
- l Optics: combined lens, zoom 0-3.9 degrees, electronic focus at 20 meters
- l
- l Horizontal scanning: 540 degrees (16bit precision scanning)
- l Vertical scanning: 280 degrees (16bit precision scanning) with automatic return function
- l Control mode: international standard DMX512 signal. With RDM function, 3-core, 5-core DMX512, thermal protection
- l
- l Product size:23cm\*22cm\*53cm
- l Package size: 53.5x37.5x40.5cm
- l Net weight: 14.5Kg
- l Gross weight: 18Kg



## 2. Display panel and button definition

### 2.1 Control Panel



Menu key: Enter/return to the main menu

Up Arrow: Menu function up selection/parameter increment

Down Arrow: Menu function to select down/decrement parameters

Confirm button: Select the menu function, and confirm and save it when the menu function parameters are modified.

### 2.2 Menu Function

After powering on and resetting the whole machine, press the menu button to enter the main menu (the main menu interface will exit after 30 seconds of no operation), see the main menu function table (a total of 5 main menu options) for details; Up or down key to select the main menu, confirm button to enter the modification of the function parameters of each menu, and then press the confirm button to save the current function parameters (after saving, it has a power-off memory).

| Main menu          | submenu                      | Menu function description   |
|--------------------|------------------------------|---|
| 1. System settings | 1. DMX address               | Modify the DMX address code up or down (the address code can be selected in the range 001-512), and save it with the confirmation key, which is 001 by default. |
|                    | 2. Encoder                   | Modify the encoder on/off up or down, confirm key to save, and enable by default.   |
|                    | 3. X reversal                | Modify X up or down to reverse on/off, confirm key to save, off by default.   |
|                    | 4. Y reversal                | Modify Y up or down to turn on/off, confirm key to save, and turn off by default.   |
|                    | 5. No signal                 | Hold/Zero, default hold.  |
|                    | 6. Turn on the bright bubble | Modify up/down on/off, off by default.  |
|                    | 7. Reset                     | Modify up/down on/off, off by default.  |
|                    | 8. Advanced settings         |   |
| 2. Operation mode  | 1. Operation mode            | Up or down to select the run mode DMX/Voice Activated/Auto, confirm key to save, default DMX.   |
|                    | 2. Channel selection         | Select the CH18 confirmation key up or down to save, the default CH18.  |





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|                   |                                    |  |
|-------------------|------------------------------------|--|
| 3. Manual control | 1. Color wheel                     | Modify the value (000-255) up and down, and save the confirmation key, default 000 |
|                   | 2. The color wheel is half-colored | Modify the value (000-255) up and down, and save the confirmation key, default 000 |
|                   | 3. a gobo                          | Modify the value (000-255) up and down, and save the confirmation key, default 000 |
|                   | 4. Gobo disc vibrate               | Modify the value (000-255) up and down, and save the confirmation key, default 000 |
|                   | 5. Strobe                          | Modify the value (000-255) up and down, and save the confirmation key, default 000 |
|                   | 6. Dimming                         | Modify the value (000-255) up and down, and save the confirmation key, default 000 |
|                   | 7. X-axis                          | Modify the value (000-255) up and down, and save the confirmation key, default 000 |
|                   | 8. Y-axis                          | Modify the value (000-255) up and down, and save the confirmation key, default 000 |
|                   | 9. XY speed                        | Modify the value (000-255) up and down, and save the confirmation key, default 000 |
|                   | 10. a prism 1                      | Modify the value (000-255) up and down, and save the confirmation key, default 000 |
|                   | 11. The prism 1 rotates            | Modify the value (000-255) up and down, and save the confirmation key, default 000 |
|                   | 12. a prism 2                      | Modify the value (000-255) up and down, and save the confirmation key, default 000 |
|                   | 13. The prism 2 rotates            | Modify the value (000-255) up and down, and save the confirmation key, default 000 |
|                   | 14. Atomization colorful           | Modify the value (000-255) up and down, and save the confirmation key, default 000 |
|                   | 15. Focusing                       | Modify the value (000-255) up and down, and save the confirmation key, default 000 |
|                   | 16. X-axis fine-tuning             | Modify the value (000-255) up and down, and save the confirmation key, default 000 |
|                   | 17. Y-axis fine-tuning             | Modify the value (000-255) up and down, and save the confirmation key, default 000 |
|                   | 18. Bulb control                   | Modify on/off up or down, confirm key to save, and turn off by default.            |
|                   | 19. Resetting                      | Modify Yes/No up or down, confirm key to save, default no.                         |



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|                     |                              |  |
|---------------------|------------------------------|--|
| 4. Display settings | 1. Language selection        | Select Chinese/EN (English) up or down, confirm the key to save, default Chinese.      |
|                     | 2. Inverted display settings | Up or down select Off/On Inverted Settings, Confirm key Save, and turn off by default. |
|                     | 3. Screen protection         | Up or down select Mode 1 - Mode 4, Default Mode 2.                                     |
|                     | 4. DMX index                 | Up or down select Mode 1-Mode 4, Default Mode 1.                                       |
|                     | 5. Backlight display         | Modify up or down (001-010), OK key to save, default 010                               |

|                    |   |                                  |  |
|--------------------|---|----------------------------------|--|
| 5. Factory setting | DisplayPlease enter password! Modify it up or down to 138, and then press the confirm button to enter the factory settings. | 1. X-axis calibration            | Modify the parameters up or down (000-255) and save the confirmation key, which is 128 by default. |
|                    |   | 2. Y-axis calibration            |  |
|                    |   | 3. Disc calibration              |  |
|                    |   | 4. Solid-image calibration       |  |
|                    |   | 5. Strobe calibration            |  |
|                    |   | 6. Strobe stroke                 |  |
|                    |   | 7. Strobe half a step            |  |
|                    |   | 8. Focus calibration             |  |
|                    |   | 9. Focusing stroke               |  |
|                    |   | 10. Prism 1 stroke               |  |
|                    |   | 11. Prism 1 half step            |  |
|                    |   | 12. Prism 2 strokes              |  |
|                    |   | 13. Prism 2 half step            |  |
|                    |   | 14. Atomization stroke           |  |
|                    |   | 15. Atomization half a step      |  |
|                    |   | 16. Colorful itinerary           |  |
|                    |   | 17. Colorful half-step           |  |
|                    |   | 18. Animated diagram calibration |  |
|                    |   | 19. GIF rotation calibration     |  |
|                    |   | 20. Amplification calibration    |  |
|                    |   | 21. Enlarge the stroke           |  |
|                    |   | 22. a uniform light stroke       |  |



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|                    |   |                                |  |
|--------------------|---|--------------------------------|--|
| 5. Factory setting | DisplayPlease enter password! Modify it up or down to 138, and then press the confirm button to enter the factory settings. | 23. Half a step of even light  | Modify the parameters up or down (000-255) and save the confirmation key, which is 128 by default.         |
|                    |   | 24. Aperture stroke            |  |
|                    |   | 25. Half a step of aperture    |  |
|                    |   | 26. prism rotation calibration |  |
|                    |   | 27. CMY2 calibration           |  |
|                    |   | 28. CMY3 calibration           |  |
|                    |   | 29. Fine-tuning 1              |  |
|                    |   | 30. Fine-tuning 2              |  |
|                    |   | 31. Fine-tuning 3              |  |
|                    |   | 32. Fine-tuning 4              |  |
|                    |   | 33. X speed                    |  |
|                    |   | 34. X stroke                   |  |
|                    |   | 35. X current                  |  |
|                    |   | 36. Y speed                    |  |
|                    |   | 37. Y stroke                   |  |
|                    |   | 38. Y current                  |  |
|                    |   | 39. Fan speed                  | Modify the parameters up or down (range 3000-9500) and save the confirmation key, which is 6450 by default |
|                    |   | 40. Time clearing              | Modify Yes/No up or down, confirm key to save, default no.   |
|                    |   | 41. Half power                 | Modify on/off up or down, confirm key to save, and turn off by default                                     |
|                    |   | 42. Fan control                | Modify the switch/normally open/speed control up or down, confirm the key to save, and the default switch  |
|                    |   | 43. Logo                       | Modify 000/001 up or down, default 000.  |
|                    |   | 44. White light speed          | Modify the parameters up or down (range 3000-9500) and save the confirmation key, which is 6450 by default |
|                    |   | 45. Closing speed              | Modify the parameters up or down (range 3000-9500) and save the confirmation key, which is 4500 by default |

|                       |   |   |   |
|-----------------------|---|---|---|
| 5. Factory setting    | DisplayPlease enter password! Modify it up or down to 138, and then press the confirm button to enter the factory settings. | 46. Color rotation speed                                      | Modify the parameters up or down (range 3000-9500), and save the confirmation key, which is 6100 by default |
|                       |   | 47. Rotational speed 1  | Modify the parameters up or down (range 3000-9500) and save the confirmation key, which is 6450 by default  |
|                       |   | 48. speed 2   | Modify the parameters up or down (range 3000-9500) and save the confirmation key, which is 6450 by default  |
| 6. Information Status | 1. Sensors  | Used to view Hall status and temperature communication status |   |
|                       | 2. Error messages   | Used to display error messages                                |   |
|                       | 3. Lamp information   | It is used to display luminaire information                   |   |
|                       | 4. Channel information  | Used to display error messages                                |   |
|                       | 5. Version Information  | Used to display version information                           |   |
|                       | 6. Instruction manual   | Used to display instructions                                  |   |
|                       | 7. Time Information   | Bright bubble time<br>Fixture time<br>Time remaining          |   |

### 3. Master-slave control

There are 2 or more identical lamps connected with DMX three-core signal cable, all lamps and lanterns are modified to 001~512 arbitrary address code, set any one as the host, and other lamps and lanterns are slaves, and all slave display screens do not flash; When using the master to adjust the gradient, pulse, jump, voice-activated and self-propelled effects, all slaves synchronize the gradient, pulse, jump, voice-activated and self-propelled effects.

Special attention:

1. A group of lamps can only be set up with one host, if there are multiple hosts, all lamps will flash randomly and not synchronized.
2. All fixtures must be active when the DMX512 console is turned off.

### 4. DMX512 control

#### 4.1 Address Code

The address code of all lamps and lanterns is set, and all lamps are connected to the DMX512 console in parallel with DMX three-core signal cables, and the address code stops flashing, indicating that the DMX512 console signal has been sent to the lamps, and the DMX512 console is used to control the relevant functions according to the channel instructions.



## 4.2 CH18 channel

| passage | Channel name         | Channel value  |
|---------|----------------------|--|
| 1       | color                | 0-255  |
| 2       | Color effects        |  |
| 3       | pattern              |  |
| 4       | Pattern jitter       |  |
| 5       | Strobe               |  |
| 6       | Dimming              |  |
| 7       | X-axis               |  |
| 8       | Y-axis               |  |
| 9       | XY axis speed        |  |
| 10      | Prism 1              |  |
| 11      | Prism 1 rotation     |  |
| 12      | Prism 2              |  |
| 13      | Prism 2 rotation     |  |
| 14      | Atomization/Colorful |  |
| 15      | Focusing             |  |
| 16      | X-axis fine-tuning   |  |
| 17      | Y-axis fine-tuning   |  |
| 18      | Bulb-reset           | 0-99 invalid<br>100-105 off the bubble<br>106-199 is invalid<br>200-205 blistering<br>206-255 is invalid |

### 5. Frequently Asked Questions

In view of some common faults, corresponding solutions are proposed. Any unsolvable problem should be handled by a professional. Disconnect the power supply before maintaining the fixture.

#### 1. The lamp beads are not lit

- l Check that the voltage that matches the luminaire is installed;
- l Check whether the power supply connection or control switch of the lamp is in poor contact;
- l Check if the power supply is insufficient;
- l Check if the DMX512 controller is sending instructions.



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## **2. The lamp does not accept the control of the console after normal reset**

- l Check whether the numerical start address value and function options of the lamp are correct;
- l Check whether the connection of the communication control line is correct, the communication line is too long or has been interrupted;
- l Check whether the control equipment is invalid, and check whether the signal amplifier connected in series is invalid;
- l Check whether the communication line is too long or other equipment interferes with each other;
- l Optimize the wiring, shorten the length of the control signal line, and separate the wiring of high-voltage and low-voltage lines;
- l Add a signal amplifier;
- l The signal line adopts high-quality shielded twisted pair cable;
- l Connect a signal termination resistor (120 ohms) at the end of the luminaire.

## **3. The lamp cannot be activated**

- l Check whether the power supply parameters are consistent with the lamp;
- l Check that the lamps have poor contact or fall off due to extrusion deformation, internal parts vibration, moisture and other reasons during long-distance transportation.
- l Please check whether the internal wires and connectors of the lamp are falling off or loose.
- l Check whether the electronic components of the lamp (such as electronic transformers, PCB boards, motor control boards, etc.) are loose, short-circuited and burned.

