

SUPER SHARPY 300 User Manual



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TECHNICAL PARAMETERS

Light source

Input voltage: AC110-220V, 50-60Hz; electronic ballast and AC/DC switching power supply.

Total power: 450W

Display: color LCD display

Keys: touch keys

Bulb: PHILIPS MSD Silver 300LL

Optical

Lens: Three-layer high-precision multi-group glued optical lens, 6-layer coating

Motor: The latest technology research and development of high-silent motors with high-tech drive software, so that each functional motor has super-fast response and accurate positioning under silent movement, and users can easily achieve fast scene switching during

use

Speed: X-axis can reach 2.2/S; Y-axis can reach 1.1/S

Strobe: Turn off the strobe, the lamp automatically half-power, energy saving and

environmental protection,

Electric focus, beam angle 0~2.4°;

Controls

Control channel: 16CH/20CH;

Effect

Color: Italian color filter, 14 bright and beautiful colors + white light,

Pattern: 17 fixed pattern pieces + white light;

Prism: 8 prisms-16 prisms-8+16 superimposed prisms, moving effect, atomization function; 0~100% mechanical dimming, support mechanical strobe and adjustable speed strobe effect, support strobe macro function;

1

Construction

Adopting photoelectric reset system, it can automatically retrieve and reset when an accidental misoperation occurs.

Horizontal: 540°, resolution 8Bit/16Bit; Vertical: 270°, resolution 8Bit/16Bit.

Overheat protection.

Weight&Dimension

Light hook: 2 pcs Net weight: 15.2KG Size: 31*31.5*52CM

With automatic error correction reset function;

Chapter 1 Precautions and Installation

1.Maintenance

- This lamp shall be kept dry to avoid working in a wet environment.
- Intermittent use will effectively prolong the life of this lamp.
- In order to obtain good ventilation and lighting effects, please pay attention to cleaning the fan, fan net and lens regularly.
- Do not wipe the lamp housing with organic solvents such as alcohol to avoid damage.

2. Statement

To use this product correctly and safely, please read the instructions carefully before installing and using this product. This manual contains important installation and application information. When installing and operating the product, please strictly follow the operating steps in the manual. At the same time, please keep this manual properly.

This product is in good condition and the packaging is complete when it leaves the factory. All users should strictly abide by the warnings and operating instructions stated above. Any damage caused by misuse is not within the company's warranty, and the dealer is not responsible for any failures and problems caused by ignoring the operating manual. This manual is subject to technical changes without prior notice.

Please carefully remove the packaging, and after removing the packaging, check whether the product has been damaged during transportation, and check whether the following contents are complete.

300W beam light----1 unit

Signal cable----1 unit

Instruction manual----1 unit

Power cord----1 unit

3. Product precautions

- To ensure the service life of the product, do not place the product in a humid or leaking place, and do not operate it in an environment with a temperature above 60 degrees. If the product has been exposed to an extreme unstable temperature environment (such as after transportation), please do not connect the product power supply immediately, because water droplets generated by temperature changes may damage the product. Please use the product after it returns to normal temperature.
- This product can be used in the voltage range of 100-240V and is an indoor product. Please ensure that the ground voltage is not higher than the product can withstand! ! The power plug must be plugged into a well-protected Class I socket. The green or brown conductor must be grounded.
- Please check the power cord of this product regularly. Make sure the power cord is not folded or damaged, and is not connected to other wires! Pay special attention when connecting the power cord or related connections. Be sure to unplug the power cord when not using this product or before cleaning.
- Please do not modify this product without authorization, otherwise it may be damaged and the
 resulting damage is not covered by the warranty. In addition, unprofessional operation may cause
 short circuits, burns or electric shocks, etc.
- Do not place this product in a place where it is easy to loosen or shake.



- Before using the product, please familiarize yourself with its operating functions. Please do not shake
 the product. Do not use brute force when installing or operating the product. Do not allow
 unprofessionals to operate the product. Most damage is caused by unprofessional operation.
- To avoid the risk of electric shock, please seek professional assistance when repairing this product.
- When the bulb is in use, the power supply voltage change should not exceed ±10%. If the voltage is
 too high, the life of the bulb will be shortened, and if the voltage is too low, the light color of the bulb will
 be affected.
- After a power outage, the lamp must be fully cooled for 20 minutes before it can be powered on again.
- To ensure the normal use of this product, please read this instruction carefully.
- Signal cable connection (DMX)

Use RS-485 cables that meet the specifications: shielded, 120ohm characteristic impedance, 22-24 AWG, low capacitance. Do not use microphone cables or cables with different specified characteristics. Terminal connections must use 3 or 5-pin XLR type male/female connectors (minimum 1/4 W). Figure 1 shows a schematic diagram of signal line connection (the lamp in the figure is an example picture and does not represent the actual appearance of this product).

IMPORTANT: The wires must not touch each other or the metal housing.

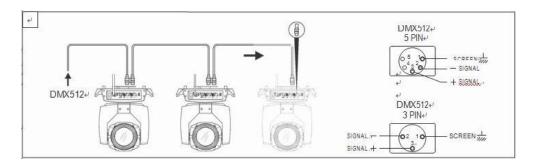
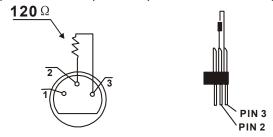


Figure 1 DMX signal line connection diagram

During the installation process, if the signal line is laid for a long distance or in an environment with noisy electrical appliances, such as a dance hall, it is recommended to use a DMX terminator (loop connection). This can avoid the turbidity of the digital control signal caused by electrical noise. The DMX terminator is composed of a simple XLR connector 2-core and 3-core connected to a 120 ohm resistor. Please insert the terminator into the XLR output port of the last product, please refer to the figure below.



4. Lighting installation

Note: The lamp can be placed horizontally, hung diagonally, or hung upside down. Be sure to pay attention to the installation method when hanging diagonally or upside down.

For greater safety, please hang and install this product away from aisles, seating areas, or areas within reach of people

Before hanging this product, please make sure that the installation point can withstand 10 times the weight of this product.

The product must be installed with a double protection device, such as a safety rope.

When hanging, dismantling or repairing this product, it is forbidden to stand under the installation point.

Please ensure that this product should be installed at least 0.5 meters away from flammable materials.

Please remember to use the safety rope as a safety guarantee to prevent accidents when the lock is loosened.

Hanging point: Top hanging requires the installer to be experienced, including calculating the load-bearing requirements, the installation materials used, and periodically checking the installation materials and the safety of the product. If you lack this knowledge, please do not attempt to install it yourself. If you do not do it correctly, it may cause serious consequences such as personal injury.

Before powering on the product, please ensure that all required hanging and installation steps are completed.

Quick-lock hanging: There is a specially designed professional hanging piece at the bottom of this product, including a quick-lock hanging piece and a safety rope hanging point (please refer to the figure below).

When hanging this product on a truss, please remember to use a suitable quick lock, fix it to the quick lock hanging position of the product, and hang it with M10 screws. To further ensure safety, please install the safety rope to the safety rope hanging point at the bottom of the product and fix it to the truss.

As shown in Figure 2, (the lamp in the picture is an example picture and does not represent the actual appearance of this product) before positioning the lamp, ensure the stability of the installation site. When reversing the hanging installation, make sure that the lamp does not fall off the support frame. A safety rope needs to be passed through the support frame and the lamp handle for auxiliary hanging to ensure safety and prevent the lamp from falling and sliding.

During the installation and debugging of the lamps, pedestrians are prohibited from passing below, and the safety ropes are regularly checked for wear and tear and the hook screws are loose.

If the lamps fall due to unstable hanging installation, our company will not bear any responsibility for any consequences.

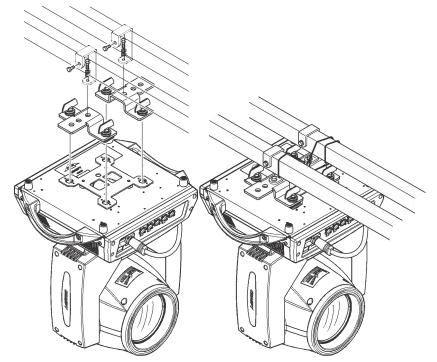


Figure 2 Schematic diagram of inverted lamp

Chapter 2 Panel Operation

1.Lighting panel

The schematic diagram of the lighting panel is shown in Figure 3:

1) Address code: The display range is 001-512, and the address code shown in the figure is 001.

2) DMX mode: 512 mode.3) Buttons: UP: Up button

MENU: Return button ENTER: Confirm button DOWN: Down button

Note: Do not use pointed or sharp objects to hit the display screen to avoid damage.



Figure 3 Schematic diagram of the four-button display panel

2. Menu home page

The first menu interface contains 8 submenus. Use the "UP" and "DOWN" keys to select the corresponding submenu, and click the "ENTER" key to enter the corresponding submenu interface. The first menu interface is shown in Figure 4:

- 1) DMX settings: Click to enter the address code setting. Use the "UP" and "DOWN" keys to increase or decrease the address code by one digit. At this time, the address code displayed on the lighting panel will also be updated synchronously.
- 2) Equipment settings: Click to enter the equipment settings to operate the reverse switch of the X-axis/Y-axis and the switch for the X/Y-axis out-of-step correction.
- 3) Bulb settings: Click to enter the bulb settings to control the bulb switch and the power-on lighting settings.
- 4) Display settings: Click to enter the display settings to adjust the display direction and switch between Chinese and English.
- 5) Equipment test: Click to enter the equipment test to control the operation mode of the equipment. Through the manual mode, the functions of the lamps can be controlled. For details, see the channel table.
- 6) Device information: Click to enter to view the device usage time, lamp usage time, lamp reset time, error information display, product code, test mode, fan speed and other information.
- 7) Reset function: Click to enter to operate the motor power switch and the reset function of the XY axis, strobe, color, pattern, and focus motor.
- 8) Advanced settings: Click to enter the password to enter the calibration interface and set the calibration parameters. Enter fine-tuning recovery to control whether the calibration data is restored.



Figure 4 Confirm input window

The system setting interface is shown in Figure 4. Enter the main menu, click the "ENTER" key to select the setting to be modified, then use the "UP" and "DOWN" keys to select the content to be changed, and finally press the "ENTER" key to confirm. You can change the working mode, working parameters and panel display settings of the lamp. For specific details, see Table 1.

| Main Menu | Secondary menu | Level 3 menu/parameters | Functional Description |
|------------|-------------------------------|-------------------------|---|
| | DMX address code | 001 | Set address code; range 512-16CH:1-499 512-20CH:1-496 |
| DMX | DMX address code | 16CH/20CH | Two channel modes available |
| Settings | DMX Final Status | Keep | Keep the last frame of DMX signal data |
| | DIVIX I IIIai Status | Standby | Maintain manual test channel data |
| | Observe the DMX channel value | none | Display the received DMX channel value |
| | X-axis reverse | open | X-axis reverse open |
| | A-axis reverse | close | X-axis reverse close |
| Device | Y-axis reverse | open | Y-axis reverse open |
| Setup | | close | Y-axis reverse close |
| | X/Y axis step-out correction | open | XY axis out-of-step correction function is enabled |
| | | close | XY axis out-of-step correction function is disabled |
| | Light hulb quitab | open | Manual lighting |
| Light bulb | Light bulb switch | close | Manual light off |
| setting | Lamp status at | open | The power-on light function is turned on |
| | power on | close | Turn on the light function off |
| Display | Show reverse | automatic | Display orientation is controlled by gravity |
| Settings | Show levelse | open | Display direction fixed positive |

| | | close | Display direction fixed reverse | |
|----------------|-------------------|--------------------------------------|--|--|
| | language | Chinese /EN | Switch between Chinese and English | |
| | | DMX | Controlled by DMX signal | |
| Equipment | move | User Programs | It is controlled by the built-in program and acts as a master to send data to slaves in DMX mode. | |
| Testing | | Automated testing | It is controlled by the built-in test program and acts as a master to send data to slaves in DMX mode. | |
| | manual mode | Manual control of the channel values | 000-255 | |
| | Device usage time | 00000000.0H | The cumulative running time of the equipment after it is powered on | |
| | Lamp usage time | 00000000.0H | Bulb lighting time | |
| | Reset lamp hours | none | Clear lamp usage time | |
| | | BEAM 300-AA.BB | AA: Display board version number BB: Motor board version number | |
| Device | product code | UID:380640F03B16 | Native UID number | |
| Information | | SN:1F2398952827 | Native SN serial number | |
| | wrong | Error message display | | |
| | test pattern | Fan test (fan 01 100%) | Manual control of fan speed | |
| | | XY axis speed (x0.01/sec) | Display the XY axis motor running speed | |
| | Fan speed | Display fan speed value | 9 | |
| | Motor power | open | All motors powered | |
| | supply | close | All motors powered off | |
| | XY axle | XY axis motor reset | | |
| Reset function | Strobe | Strobe reset | | |
| | color | Color disk motor reset | | |
| | pattern | Gobo motor reset | | |
| | Optical Path | Focus motor reset | | |
| | Fine-tuning | Enter password, lamp calibration | Calibration parameter settings | |
| advanced setup | Fine-tuning | confirm | Calibration data restore default values | |
| · | recovery | Cancel | Cancel an operation | |

2.1 DMX Settings



Figure 5 System settings interface

2.2 2.2 Equipment Setup



Figure 6 Device settings interface

2.3 Bulb Settings



Figure 7 Light bulb setting interface

2.4 Display Settings



Figure 8 Display settings interface

2.5 Equipment Testing

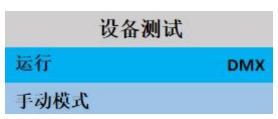


Figure 9 Device test interface

| 手动模式 | | 手动模式 | | 手动模式 | |
|---------|-----|-----------|-----|--------|-----|
| 1 . X轴 | 000 | 7. 棱镜1自转 | 000 | 13. 调光 | 000 |
| 2.Y轴 | 000 | 8. 棱镜2 | 000 | 14.功能 | 000 |
| 3. XY速度 | 000 | 9. 棱镜2自转 | 000 | | |
| 4.颜色 | 000 | 10. 雾化棱镜3 | 000 | | |
| 5. 图案 | 000 | 11.调焦 | 000 | | |
| 6. 棱镜1 | 000 | 12. 频闪 | 000 | | |

Figure 10 Manual mode interface

2.6 Device Information



Figure 11 Device information interface

Press the "ENTER" key directly to enter the device information interface. Use the "UP" and "DOWN" keys to select the information you want to view, and then click "ENTER" to view the corresponding content. The system calibration interface is shown in Figure 11, and the detailed content is shown in Table 2.

| option | illustration | | |
|-------------------|---|---|--|
| Device usage time | 00000000.0H | The cumulative running time of the equipment after it is powered on | |
| Lamp usage time | 00000000.0H | Bulb lighting time | |
| Reset lamp hours | none | Clear lamp usage time | |
| | BEAM 300-AA.BB | AA: Display board version number BB: Motor board version number | |
| product code | UID:380640F03B16 | Native UID number | |
| | SN:1F2398952827 The SN serial number of the machine | | |
| error | The error message is displayed | | |

| Test Mode | Fan test (fan 01 100%) | Manual control of fan speed | |
|-----------|---------------------------|---|--|
| rest wode | XY axis speed (x0.01/sec) | Display the XY axis motor running speed | |
| Fan speed | Display fan speed value | | |

2.7 Reset Function



Figure 12 Reset function interface

The reset function interface is shown in Figure 12. Press the "UP" and "DOWN" keys to switch the reset mode. Press "ENTER" to reset directly. For details, see Table 3.

| Options | illustration | | |
|--------------------|--|------------------------|--|
| Matanaanaanaan | open | All motors powered | |
| Motor power supply | close | All motors powered off | |
| XY axle | XY axis motor reset | | |
| Strobe | Strobe reset | | |
| color | Color disk motor reset | | |
| pattern | Position reset of the pattern disc motor | | |
| Optical Path | Focus motor reset | | |

2.8 System Calibration

| 系统校准 | | 系统校准 | | 系统校准 | |
|------|-----|-------|-----|-------|-----|
| X轴起点 | 127 | 色盘 | 127 | 雾化半步 | 127 |
| X轴行程 | 127 | 图案 | 127 | 雾化行程 | 127 |
| Y轴起点 | 127 | 棱镜1半步 | 127 | 棱镜3行程 | 127 |
| Y轴行程 | 127 | 棱镜1行程 | 127 | 调焦起点 | 127 |
| 频闪起点 | 127 | 棱镜2半步 | 127 | 调焦行程 | 127 |
| 频闪行程 | 127 | 棱镜2行程 | 127 | | |

Figure 13 System calibration interface

Enter the password "6688" to enter the system calibration interface. Use the "UP" and "DOWN" keys to modify the values. You can modify the lamp power and motor travel parameters. The system calibration interface is shown in Figure 13. For details, see Table 4.

| Options | illustration | | |
|--------------------|--|--|--|
| | After entering the sub-interface, you can adjust the initial position of the | | |
| Initial Position | X-axis, Y-axis, strobe, color disk, image disk, prism, atomization, and | | |
| | focus motor. The adjustment range is 0~255, 127 means no adjustment | | |
| | After entering the sub-interface, you can adjust the X-axis, Y-axis, strobe, | | |
| Stroke calibration | color disk, image disk, prism, atomization, and focus motor stroke. The | | |
| | adjustment range is 0~255, 127 means no adjustment | | |

Chapter 3 Channel Description and Technical Parameters

1. Channel table

The detailed data of the channel is shown in Table 5, which can also be viewed in the manual operation interface:

| 16CH | 20CH | Channel name | Channel values | Channel function |
|------|------|--------------|----------------|------------------|
| 1 | 1 | color | 0-11 | white |
| | | | 12-15 | White + colour1 |
| | | | 16-19 | color1 |
| | | | 20-23 | color1+color2 |
| | | | 24-27 | color2 |
| | | | 28-31 | color2+color3 |
| | | | 32-35 | color3 |
| | | | 36-39 | color3+color4 |
| | | | 40-43 | color4 |

| | | | 44-47 | color4+color5 |
|---|---|--------|---------|---|
| | | | 48-51 | color5 |
| | | | 52-55 | color5+color6 |
| | | | 56-59 | color6 |
| | | | 60-63 | color6+color7 |
| | | | 64-67 | color7 |
| | | | 68-71 | color7+color8 |
| | | | 72-75 | color8 |
| | | | 76-79 | color8+color9 |
| | | | 80-83 | color9 |
| | | | 84-87 | color9+color10 |
| | | | 88-91 | color10 |
| | | | 92-95 | color10+color11 |
| | | | 96-99 | color11 |
| | | | 100-103 | color11+color12 |
| | | | 104-107 | color12 |
| | | | 108-111 | color12+color13 |
| | | | 112-115 | color13 |
| | | | 116-119 | color13+color14 |
| | | | 120-123 | color14 |
| | | | 124-127 | color14+white |
| | | | 128-189 | Counterclockwise flow from fast to slow |
| | | | 190-193 | Stop water flow |
| | | | 194-255 | Clockwise flow from slow to fast |
| 2 | 2 | Strobe | 0-3 | Shut down the light |
| | | | 4-103 | Synchronous strobe |
| | | | 104-107 | switch |
| | | | 108-207 | Bisection strobe |
| | | | 208-212 | Consecration |
| | | | 213-251 | Random strobe |
| | | | 252-255 | Consecration |
| I | | | 12 | |

| 3 | 3 | Dimming | 0-255 | 0-100% Dimming |
|---|---|---------------|---------|---|
| 4 | 4 | Fixed pattern | 0-7 | White light hole |
| | | | 8-14 | pattern1 |
| | | | 15-21 | pattern2 |
| | | | 22-28 | pattern3 |
| | | | 29-35 | pattern4 |
| | | | 36-42 | pattern5 |
| | | | 43-49 | pattern6 |
| | | | 50-56 | pattern7 |
| | | | 57-63 | pattern8 |
| | | | 64-70 | pattern9 |
| | | | 71-77 | pattern10 |
| | | | 78-84 | pattern11 |
| | | | 85-91 | pattern12 |
| | | | 92-98 | pattern13 |
| | | | 99-105 | pattern1From slow to fast jitter |
| | | | 106-112 | pattern2From slow to fast jitter |
| | | | 113-119 | pattern3From slow to fast jitter |
| | | | 120-126 | pattern4From slow to fast jitter |
| | | | 127-133 | pattern5From slow to fast jitter |
| | | | 134-140 | pattern6From slow to fast jitter |
| | | | 141-147 | pattern7From slow to fast jitter |
| | | | 148-154 | pattern8From slow to fast jitter |
| | | | 155-161 | pattern9From slow to fast jitter |
| | | | 162-168 | pattern10From slow to fast jitter |
| | | | 169-175 | pattern11From slow to fast jitter |
| | | | 176-182 | pattern12From slow to fast jitter |
| | | | 183-189 | pattern13From slow to fast jitter |
| | | | 190-221 | Counterclockwise flow from fast to slow |
| | | | 222-223 | Stop water flow |
| | | | 224-255 | Clockwise flow from slow to fast |
| | 1 | | 13 | 1 |

| 5 | 5 | prism1 | 0-127 | Remove the prism |
|----|----|---------------------|---------|--|
| | | | 128-255 | Insert 8 prisms |
| 6 | 6 | Prism 1 rotates | 0-127 | 0-400 degree |
| | | | 128-190 | Forward flow from fast to slow |
| | | | 191-193 | stop |
| | | | 194-255 | Reverse flow from slow to fast |
| 7 | 7 | prism2 | 0-127 | Remove the prism |
| | | | 128-255 | Insert 8+16 double prism |
| 8 | 8 | Prism 2 rotates | 0-127 | 0-400 degree |
| | | | 128-190 | Forward flow from fast to slow |
| | | | 191-193 | stop |
| | | | 194-255 | Reverse flow from slow to fast |
| 9 | 9 | focusing | 0-255 | From far to near |
| 10 | 10 | x-axis | 0-255 | 0-540 degree |
| 11 | 11 | X-axis fine-tuning | 0-255 | 0-2 degree |
| 12 | 12 | Y-axis | 0-255 | 0-270 degree |
| 13 | 13 | Y-axis fine-tuning | 0-255 | 0-1 degree |
| 14 | 14 | Atomization-Prism 3 | 0-127 | Fog - Prism 3 Cut Out |
| | | | 128-192 | Atomization cutting |
| | | | 193-255 | Prism 3 cut-in |
| 15 | 15 | Reset | 140-149 | XY motor reset after more than 5 seconds |
| | | | 150-159 | The motor will reset after more than 5 seconds |
| | | | 200-209 | All motors reset after more than 5 seconds |
| 16 | 16 | Light bulb control | 0-25 | Empty |
| | | | 26-100 | Turn off the light bulb after 5 seconds |
| | | | 101-255 | Turn on the light bulb after 5 seconds |
| | 17 | XY speed | 0-255 | From fast to slow |
| | 18 | Color speed | 0-255 | From fast to slow |
| | 19 | Focus speed | 0-255 | From fast to slow |

| 20 | Fixed pattern speed | 0-255 | From fast to slow | |
|----|---------------------|-------|-------------------|--|
| | | | | |

Chapter 4 Common Faults and Usage Precautions

1. Common fault handling

The lamp contains professional components such as microcomputer circuit boards and high-voltage power supplies. For your safety and product life, non-professionals should not disassemble the lamp and related accessories without authorization.

1. The bulb does not light up (except LED light sources)

Possible reasons: The bulb has not completely cooled down, or the bulb has reached its lifespan. The following are the solutions:

- Due to abnormal operation, the bulb is not completely cooled, the light body should be cooled for more than 10 minutes, so that its internal completely restored to the normal state, and then start the power supply again;
- Check whether the light bulb has reached the service life, and replace it with a new light bulb;
- Check whether the bulb and lamp device line leakage, fall off or poor contact;
- Replace the new lamp lighter.
 - 2. The light beam appears dim

Possible reasons: The bulb has been used for a long time or the light path is not clean. The solution is as follows:

- Check whether the light bulb has reached the service life, and replace it with a new light bulb;
- Check whether the optical components or bulbs are clean, and whether there is dust accumulation on the bulbs and other optical components, and the bulbs and the components should be cleaned and maintained regularly.
 - 3.Pattern projection is blurred
- Check whether the electronic focus channel value is appropriate for the current projection distance.
 - 4. The lamp works intermittently

Possible cause: The internal circuit enters the protection state, and the solution is as follows:

- Check whether the fan is running normally or whether it is dirty, causing the temperature inside the lamp to rise;
- Check whether the internal temperature control switch is in a closed state;
- Check whether the bulb has reached its service life and replace it with a new one
 - 5. After the lamp is reset normally, it does not accept the control of the console.

Possible reasons: signal line failure or abnormal lamp parameter settings, the solution is as follows:

 Check the starting address code and the connection of DMX signal line (whether the signal cable is intact and whether the Alcock head connection is loose);



- Add a signal amplifier, add 120 ohm terminal resistance;
 - 6. The lamp cannot be started

Possible cause: The power line is bad, the solution is as follows:

- Check whether the insurance on the power input socket is fused and replace the insurance;
- Poor line contact of lamp travel due to vibration during long-distance transportation
- Check the input power supply, computer board and other plug-in devices.

2.Precautions for use

- Check whether the local power supply meets the rated voltage requirements of the product, and whether the leakage protector and overcurrent protector meet the requirements of the load;
- Do not use damaged power cord with insulation and do not attach power cord to other wires;
- The lamps and lanterns use strong air refrigeration, which is easy to accumulate dust. They must be cleaned once a month, especially the cooling outlet, otherwise it will be blocked due to dust, resulting in poor heat dissipation, so that the lamps appear abnormal.
- When installing lamps, the fixing screws must be tightened, and safety ropes should be added, and checked regularly;
- In the installation and positioning of the lamp, any point on the surface of the lamp and any burning explosive, keep the minimum distance of 10 meters, the distance from the irradiation is 2.5 meters, please do not install the lamp directly on the surface of combustible material;
- It is recommended that the continuous working time of lamps should not exceed 10 hours, and the interval time of continuous starting lamps should not be less than 10 minutes, otherwise it will not be triggered normally because of the overheating protection of the bulb;
- The closing time of using the on-off valve should not exceed 5 minutes. If the light needs to be closed for a long time, the console (light gun control channel) should be used to turn off the light gun;
- In order to ensure that multiple lamps better comply with the scene effect, the lamps should not always be in an unfinished current scene, that is, start the next scene action, preferably this state should not exceed 3 minutes to ensure that multiple lamps can run synchronously;
- In the process of use, if the lamps are abnormal, the lamps should be stopped in time to prevent other faults.

3. Notes on using RDM

RDM is an extended version of the DMX512-A protocol and a remote device management protocol. Traditional DMX512 protocol communication is one-way communication and is based on the RS-485 bus. RS-485 is a time-division multipoint, half-duplex protocol that only allows one port to output to the host at the same time. Therefore, pay attention to the following points when using RDM:

- To use the console or host device that supports the RDM protocol host;
- To use a two-way signal amplifier, the traditional one-way signal amplifier is not suitable for RDM protocol, because the RMD protocol requires feedback data, and the use of one-way amplifier will block the return data, resulting in the search for the lamp;



- All lamps must be set to DMX mode to ensure that there is only one host on the signal line;
- A 120 ohm impedance matching resistance must be inserted between terminals 2 and 3 of the terminal plug. When the signal line is relatively long, the signal reflection, which is conducive to the quality of communication;
- When the lamp is subject to DMX control, but can not RDM search the lamp, first check the signal amplifier, and then check whether the 2 and 3 lines of the signal line have poor contact.

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.

