CY-PM StageBreeze6

User Manual

Please read the instructions carefully before use

Orders to record

1. Precautions for Installation Precautions for installation

1.1 The statement

Thank you for choosing our products!This product at the factory, the performance is intact, the package is complete.For your safe and effective use of this product, please read this manual carefully and completely before you use this product.This instruction manual contains important information for installation and use. Please install and operate according to the instructions. Meanwhile, please keep this instruction manual properly for use at any time.Our company does not assume any responsibility for the damage of lamps or other performance due to the failure of individuals to follow the instructions during installation, use or maintenance.

This manual is subject to technical change without prior notice.

1.2 Maintenance and maintenance

- Please disconnect the power supply before maintenance.
- The lamp should be kept dry and avoid working in wet environment.
- Intermittent use will effectively extend the life of the lamp.
- For good ventilation and lighting, take care to clean the fan and fan net as well as the lens frequently.
- Do not rub the lamp shell with alcohol and other organic solvents to avoid damage.

1.3 Product Precautions

- This lamp is for professional use only.
- Before running, ensure that the power supply voltage is consistent with the required power supply voltage.
- Do not place the product in a place that is easy to loosen or vibrate.
- In the process of use, if the lamp is abnormal, it should stop using the lamp in time.
- In order to ensure the service life of the product, the product should not be placed in a damp or leaking place, and should not work in an environment where the temperature exceeds 60 degrees.
- When the bulb is used, the power supply voltage should not be more than ±10%. If the voltage is too high, the life of the bulb will be shortened. If the voltage is too low, the light color of the bulb will be affected.
- After power failure, it takes 20 minutes for the lamp to be fully cooled before it can be powered on again.
- The rotating part of the lamp and the sticking parts must be checked regularly. If loose or shaking occurs, it should be reinforced in time to prevent accidents.
- To ensure the normal use of this product, please read the instructions carefully.

1.4 Product Introduction

- Input voltage: AC100-240V, 50/60Hz
- Rated power: 900W
- Light source: 600W LED module
- LED life: 20,000 hours

- Color temperature: 6800K
- Caliber: 138mm Frontal lens for greater performance
- Color rendering index: Standard mode Ra>72, high CRI mode Ra>90
- Luminous flux: 24000LM
- Signal interface: three-pin XLR (five-pin XLR optional)
- Control mode: DMX512, RDM, Auto Mode, master-slave, Sound activation
- Channel mode: 36CHs
- Display system: 2.7-inch touch LCD display, Chinese and English display, 180-degree rotation
- Fixed color: 6 colors + open position
- Color mixing system: independent CMY color mixing system
- Color temperature adjustment: independent CTO 2500K-7000K linear adjustment
- Prisms: Rotating 3-faced prism
- Effect wheel: dynamic effects such as stunning simulated dynamic flames, gurgling water, etc.
- Fixed Gobo wheel: 7 fixed gobos+open position
- Rotating gobo Wheel: 7 gobos (pluggable), outer diameter 22.9mm, effective diameter 16mm, thickness 1.1mm+Open position
- Framing system: 4 Individually positionable Shutter Blades, each piece can be closed separately and can be rotated +/- 90°
- Frost system: 0~100% linear atomization
- Iris system: 5%~100% smooth adjustment
- Beam Aperture: 4.5°~50° fast motorized linear zoom
- Dimming system: 0-100% linear adjustment
- Strobe system: the highest frequency can reach 25Hz, and random strobe and pulse strobe can be selected
- Pan: 540° (16 bit precision scanning)
- Tilt: 270° (16 bit precision scanning)
- Pan/Tilt: Five-phase motor with magnetic encoding positioning function
- Protection rate: IP20
- Working environment: 0-45℃
- Product size: 424*286*770(mm)
- Carton size: 730*690*590 (mm)
- Product net weight: 35KG
- Product gross weight:4.5KG
- Product appearance: flame retardant, high temperature resistance, folding clamp

1.5 Signal wire connection

Lamps feature standard DMX input and output 3-core or 5-core XLR sockets.Please use DMX 512 shielded twisted-pair signal cable;The signal line is generally connected at a distance of 150 meters, and the DMX512 signal amplifier must be added when the long-distance signal is transmitted.

Connect a shielded twisted-pair signal line from the DMX outlet of the controller to the DMX input of the first device, and from the DMX input of the first device to the DMX input of the

second device, and so on, until all lights are connected. Then install a terminal plug on the last connecting 3-core jack of the light fixture output in each row.(Weld a 4/1W, 120Ω resistance between pins 2 and 3 of the 3-core pin cannon plug).

Important: Wires should not touch each other or the metal case.

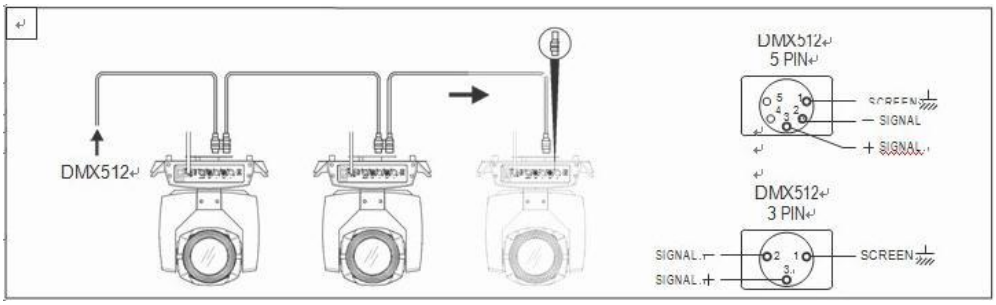

Figure 1 Schematic diagram of DMX signal cable connection

➢ Calculation method of initial address code of lamps:

The initial address code of the current lamp is equal to (the initial address code of the previous lamp)+(the number of channels of the lamp)

1: The starting address code of the first lamp is A001.

2: The basic channel number of the controller should be greater than or equal to the total number of channels used by the lamp.

3: Note: when using any controller, each lamp should have its own initial address code, if the first lamp's initial address code is set A001, the lamp channel number is 16CH;Then the initial address code of the second lamp is set to A017;The starting address code of the third lamp is set to A033;And so on. (This setting mode also needs to be determined according to different console)

1.6 Installation of lamps

Lamps can be placed horizontally, slanted or hung upside down.Pay attention to the installation method when hanging it slanting or upside down.

As shown in Figure 2, before positioning the lamp, the stability of the installation site should be ensured. During the reverse hanging installation, the lamp must not fall down on the support frame, and the safety rope should be used to pass through the support frame and the lamp handle for auxiliary hanging to ensure safety. Prevent lamps from falling and sliding.

When the lamp is installed and adjusted, pedestrians are not allowed to pass under it. Periodically check whether the safety rope is worn and whether the hook screw is loose.

Our company does not assume any responsibility for all the consequences caused by the fall of the lamp due to the unstable installation of the hanging.

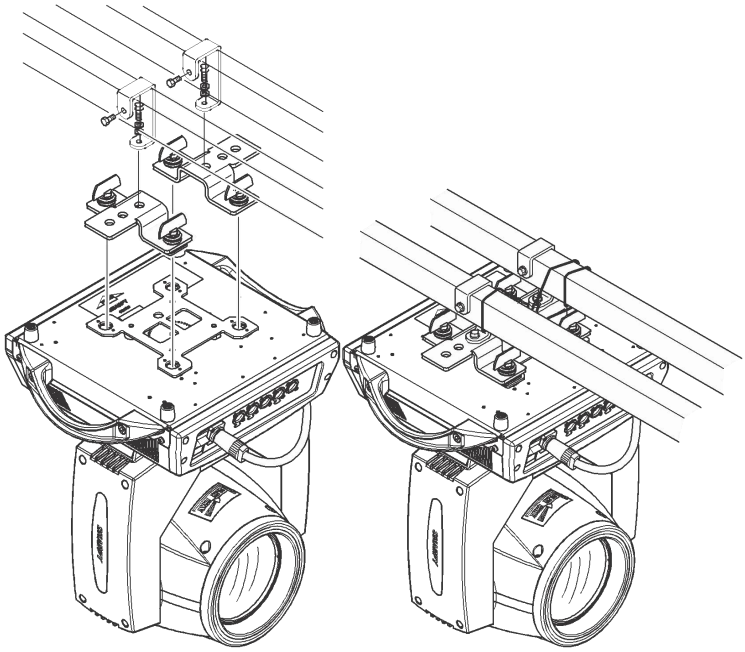

Figure 2. Schematic diagram of hanging lamps upside down

2. Control panel

2.1 Key Description

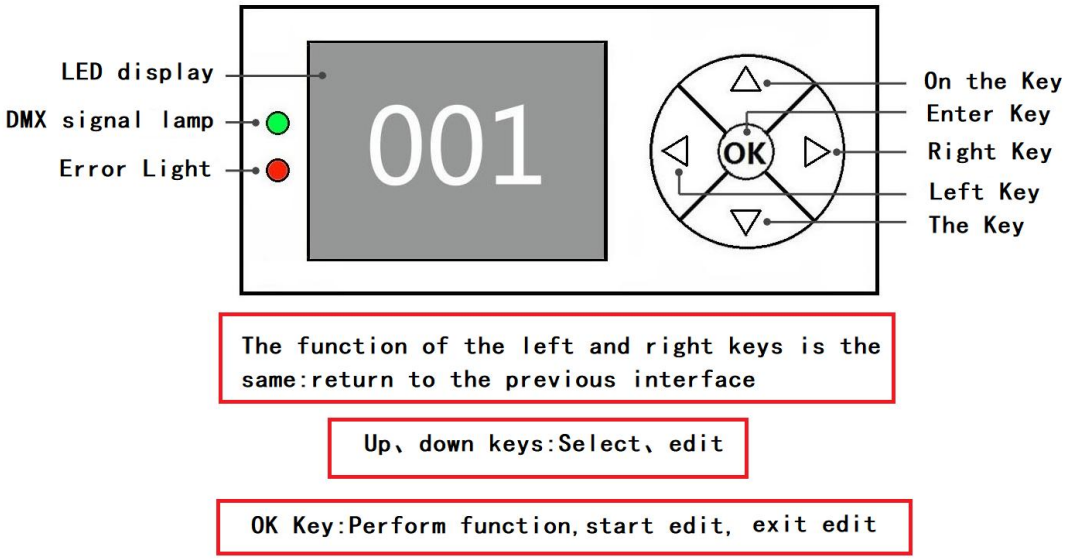

Figure 3. Description of panel keys

The following takes "Modify DMX address code" as an example to describe the use of keys:

1. If the current home screen is not displayed, press the Left key (one or more times) to return to the home screen
2. On the home screen, press the Up or Down key to select the Settings button
3. Press the OK key to enter the Settings screen
4. In the "Settings" interface, press the "Up" key or "Down" key to select "DMX Address"
5. Press "OK" to enter the editing state
6. Press the "Up" key or "Down" key to modify the DMX address code
7. Press the "OK" key to exit the editing state
8. Press the right button on the main interface to enter the calibration menu.

2.2 Menu Description

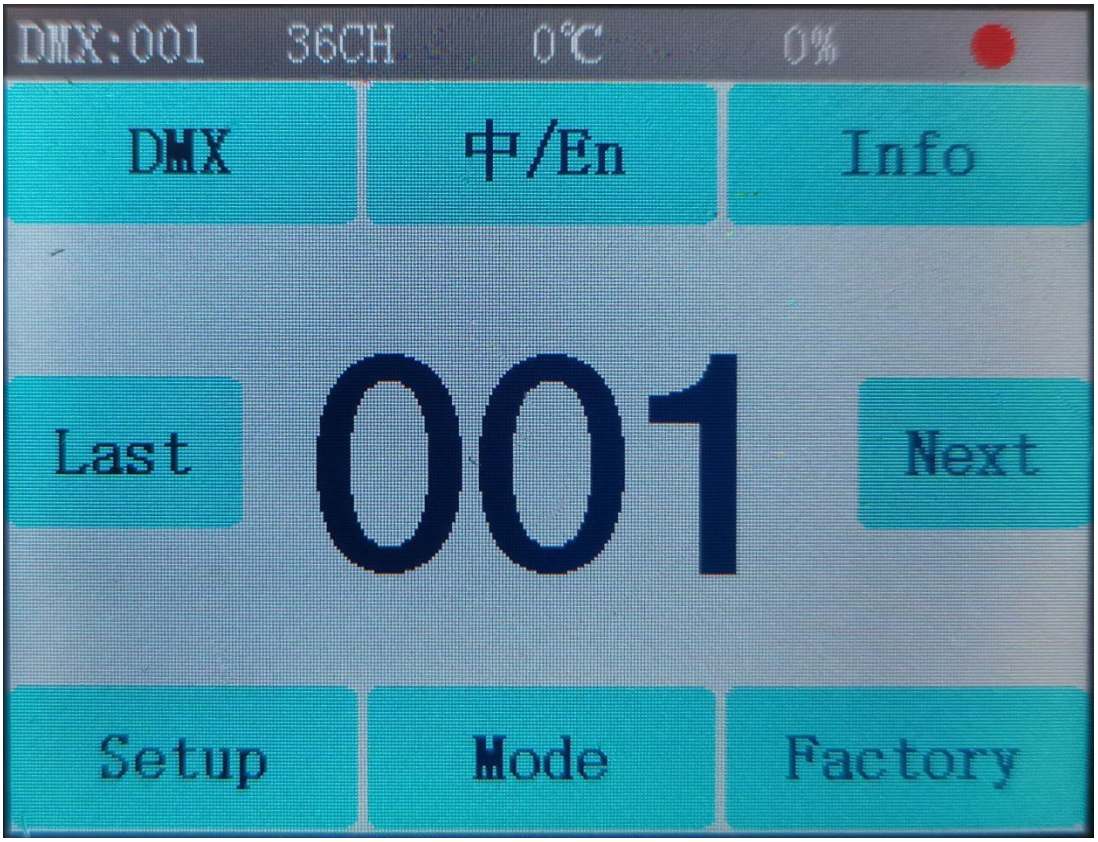

Figure 4 Main menu diagram

2.2.1 DMX Settings

Key description: Press up or down to +1 or -1 mode;Press one or the next, quickly adjust the address code mode;Press the Confirm key to return

Manual instruction: Enter the hundreds place, then the tens place, and then the last place.(For example, if you enter 286, click 2, then 8, and finally 6)

2.2.2 Medium /En

English and Chinese interface switch;

2.2.3 System Information

options	instructions	
System version	DIS	Display board software version
	MT	Motor board software version
Temperature information		Display bead temperature
Fan	Fan speed	Displays fan speed information

Information		
System time	Total bright bubble	Cumulative brightening time (accurate to minutes)
	This brightening bubble	The brightening time (accurate to minute)
	Total service time	Cumulative usage time (accurate to minutes)
	Time of use	Usage time since this startup (accurate to minutes)
	Date of manufacture	
	Permission Duration	9999 indicates no encryption and can be used for a long time. Other values represent the remaining use time, encrypted;
Sensor monitoring	X Hall	0 when magnetic is detected, 1 otherwise
	Y Hall	0 when magnetic is detected, 1 otherwise
	Color plate hall	0 when magnetic is detected, 1 otherwise
	CMY Hall	0 when magnetic is detected, 1 otherwise
	CTO Hall	0 when magnetic is detected, 1 otherwise
	Fixed pattern pan	0 when magnetic is detected, 1 otherwise
	Glass pattern hall	0 when magnetic is detected, 1 otherwise
	Glass pattern rotation Hall	0 when magnetic is detected, 1 otherwise
	Focus hall	0 when magnetic is detected, 1 otherwise
	Enlarge Hall	0 when magnetic is detected, 1 otherwise
	Prism 1 rotary hall	0 when magnetic is detected, 1 otherwise
	X Code disk status	Two digits, each corresponding to a photoelectric switch in the code disc
	Y Code disk status	Two digits, each corresponding to a photoelectric switch in the code disc
	X-axis encoding disk step value	The number of steps should increase when walking in the forward direction and decrease when walking in the opposite direction. Every time you go to the same point, the value is normal
	Y-axis encoding disk step value	The number of steps should increase when walking in the forward direction and decrease when walking in the opposite direction. Every time you go to the same point, the value is normal
System error		If the red ERR indicator lights up, it indicates that the lamp is running incorrectly. You can enter the sub-interface to check the details. After

		viewing, you can press the "Clear" key to clear the error record
DMX channel value monitoring		The sub-screen displays the channel value in numerical and percentage terms for viewing

Common Error Messages	instructions
Failed to connect the MT board. Procedure	The motor board is not responding. The serial communication line connecting the display board and the motor board is faulty, or the motor board is faulty.
X-axis reset failed	X-axis photoelectric switch, or X-axis motor or motor board has a problem
Y-axis reset failed	Y-axis photoelectric switch, or Y-axis motor or motor board is faulty
X axis Hall error	There is a problem with X shaft Hall or motor board
Y-axis Hall error	Y-shaft Hall, or motor board problem
Description Failed to reset the color disk	Color plate hall, or color plate motor has a problem
Description The pattern disk failed to reset	Pattern plate hall, or pattern plate motor problem
Failed to reset the focus	The focusing hall, or the focusing motor has a problem

2.2.4 Lighting setup

options	instructions	
DMX channel	36CH	36 channel mode
language	Chinese	Set the interface to Chinese
	English	Set the interface to English
Screen flip	guan	Front face display
	open	The screen is displayed in reverse
Automatic screen flip	guan	Disable the automatic flip function
	open	Gravity sensing automatically reverses
Dimming curve	Square	index

	linear	A straight line
	SCurve	sine
	InSquare	logarithmic
RDM Function	guan	The RDM function is enabled
	open	Disable the RDM function
DMX signal	keep	Continue running in the original state
	reset	The motor turns back and stops running
Screen saver	guan	Turn off the screensaver
	open	Open the screensaver
X reversal	guan	The default
	open	The starting point and the ending point are switched
Reversal of Y	guan	The default
	open	The starting point and the ending point are switched
XY exchange	guan	The default
	open	Exchange XY axis channel (including fine tuning)
XY encoder	open	Use an encoder (optocoupler) to determine the out-of-step and automatically correct the position
	guan	No encoder (optocoupler) is used to correct the position
Restore Default Settings		After you press the OK key, the confirmation dialog box is displayed. Press the OK key again to restore the default Settings

2.2.5 Running Mode

Self walking mode	DMX	Slave state: Receives DMX signals from the console or host
	Since the go	Host state: Self-drive and send DMX signal to slave
	Voice control	

Manual control (Click the operation mode menu on the main interface, select the item manual control, and press "Confirm" to enter manual control)

This interface is used to control the current lamp and automatically enter the host state (no DMX signal is received, in self-walking mode is the host, and sends DMX signal to the bus to the slave machine).

The manual menu displays 36 channels according to the standard 36 channels set in the Settings menu.

options	instructions	
1CH. X	0 ~ 255	Press the "OK" key to enter the editing state. Select the hundreds digit and press the Up and Down keys to change the channel value. Press OK again to select the tens edit. Press "OK" again to select the ones bit edit. Press again to exit the editing state
...	0 ~ 255	
35CH. Aperture	0 ~ 255	
36CH. Reset		Press the "OK" button and see the

		confirmation dialog box. Press the "OK" button again to enter the reset interface and reset all the motors

Reset ALL		Press the "OK" button and see the confirmation dialog box. Press the "OK" button again to enter the reset interface and reset all the motors
XY reset		Press the "OK" button to see the confirmation dialog box. Press the "OK" button again to enter the reset interface and reset XY
MT reset		Press the "OK" button and see the confirmation dialog box. Press the "OK" button again to enter the reset interface and reset the small motor

2.2.6 Factory Settings

options	instructions	
Calibration of motor	The X axis	After entering the sub-interface, you can adjust the reset position of X axis, Y axis and other motors to make up for the error in hardware installation. The adjustment range is -128 to +127, and +0 indicates no adjustment.
	Y	
	Disk of color	
	Fixed pattern plate	
	Glass pattern plate	
	Glass pattern rotation	
	Effect plate zero point	
	Stroke of effect plate	
	Apparent zero point	
	Apparent indicative stroke	
	Color temperature	
	cyan	
	magenta	
	yellow	
	focusing	
	amplification	
	Prism 1 zero point	
	Prism 1 stroke	
	Prism 2 zero point	

	Prism 2 stroke	
	Prism 1 rotation	
	Prism 2 rotation	
	Zero point of atomization	
	Stroke of atomization	
	Cutting rotary plate	
	The aperture	
	Cut 1	
	Cut 2	
	Cut 3	
	Cut 4	
	Cut 5	
	Cut 6	
	Cut 7	
	Cut 8	
XY speed adjustment	X axis velocity	000-255, speed slow to fast adjustment
	Y axis velocity	
Regulation of fan	Regulation of fan	Only do temporary adjustment, power does not save
	Fan speed	

3. Function of channel

3.1 Table of channels

channel	Channel mode
	Channel 36
1	X
2	X fine tuning
3	Y
4	Y fine tuning
5	XY velocity
6	Cut light/stroboscopic
7	The dimmer
8	C
9	M
10	Y
11	CTO
12	Disk of color

13	Slice of value
14	Fixed pattern plate
15	Pattern of glass
16	Glass pattern rotation
17	Disc of effect
18	Effect spiral turn
19	focusing
20	Focus tuning
21	amplification
22	Prism 1
23	Prism 1 rotation
24	keep
25	atomization
26	Section 1
27	Section 2
28	Section 3
29	Section 4
30	Section 5
31	Section 6
32	Section 7
33	Section 8
34	Cutting rotary plate
35	The aperture
36	reset

Channel parameter values (full version) :

Channe 1 1	The name of the	The numerical	describe
CH1	X	0-255.	0-540 degrees
CH2	X fine tuning	0-255.	0-2 degrees
CH3	Y	0-255.	0-270 degrees
CH4	Y fine tuning	0-255.	0-1 degrees
CH5	XY velocity	0-255.	From fast to slow
CH6	Cut light/stroboscopic	0-3	GuanGuang
		4-127.	From slow to fast pulse stroboscopic
		128-191.	It goes from slow to fast
		192-251.	From slow to fast random stroboscopic
		252-255.	medallion

CH7	The dimmer	0-255.	0-100% dimming
CH8	C	0-255.	
CH9	M	0-255.	
CH10	Y	0-255.	
CH11	CTO	0-255.	
CH12	Disk of color	0-127.	Linear color
		128-191.	Switching colors
		192-222.	From fast to slow forward water
		223-224.	stop
		225-255.	From slow to fast reverse flow
CH13	Finger display plate	0-255.	Linear insertion
CH14	Fixed pattern plate	0-9	The white light
		10-129.	Switching patterns
		130-189.	Pattern shake, from slow to fast
		190-212.	From fast to slow forward water
		213-215.	stop
		216-255.	From slow to fast reverse flow
CH15	Pattern of glass	0-9	The white light
		10-79.	Switching patterns
		80-149.	Pattern shake, from slow to fast
		150-190.	From fast to slow forward water
		191-192.	stop
		193-255.	From slow to fast reverse flow
CH16	Glass pattern rotation	0-127.	Switch of angles
		128-190.	From fast to slow forward water
		191-192.	stop
		193-255.	From slow to fast reverse flow
CH17	Disc of effect	0 to 10	Remove the
		11-255.	Linear insertion
CH18	Effect spiral	0-2	stop
		3-128.	From fast to slow forward water

	turn	129-255.	From slow to fast reverse flow
CH19	focusing	0-255.	From far to near
CH20	Focus tuning		
CH21	amplification	0-255.	From small to big
CH22	A prism	0-127.	Remove the prism
		128-255.	A prism
CH23	Rotation of prism	0-127.	Switch of angles
		128-187.	From fast to slow forward water
		188-195.	stop
		196-255.	From slow to fast reverse flow
CH24	keep		
CH25	atomization	0-127.	There is no
		128-255.	atomization
CH26	Section 1	0-255.	Linear insertion
CH27	Section 2	0-255.	Linear insertion
CH28	Section 3	0-255.	Linear insertion
CH29	Section 4	0-255.	Linear insertion
CH30	Section 5	0-255.	Linear insertion
CH31	Section 6	0-255.	Linear insertion
CH32	Section 7	0-255.	Linear insertion
CH33	Section 8	0-255.	Linear insertion
CH34	Cutting rotary plate	0-255.	Angle of slice
CH35	The aperture	0-127.	From big to small
		128-255.	Function of contraction
CH36	reset	210-215.	Reset XY for more than 6 seconds
		220-235.	More than 6 seconds reset effect motor
		240-255.	Reset all after 6 seconds

4. Common Faults

In view of some common faults, the corresponding solutions are put forward.Any problems

that cannot be resolved should be dealt with by professionals.Disconnect the lamp before maintaining it.

1. Light bulb doesn't work

- Check that the voltage is installed to match the luminaire;
- Check whether the lamp power supply connection or control switch is in bad contact;
- Check for insufficient power supply;
- Check whether the DMX512 controller is sending instructions.

2. The lamp will not be controlled by the console after normal reset

- Check whether the digital starting address value and function options of the lamp are correct;
- Check whether the communication control line is connected correctly, the communication line is too long or has been interrupted;
- Check the failure of the control equipment, check the failure of the serial access signal amplifier;
- Check whether the communication line is too long or other equipment interferes with each other;
- Optimize the wiring, shorten the length of the control signal line, and separate the high-voltage and low-voltage lines;
- Add signal amplifier;
- The signal line adopts high quality shielded twisted pair wire;
- Connect the signal terminal resistor (120 ohms) at the end of the lamp.

3. Light fixture fails to start

- Check whether the power supply parameters are consistent with the lamp;
- Check the lamps in the long distance transportation process due to extrusion deformation, internal parts vibration, damp and other reasons, resulting in poor contact

  Or fall off.
- Please check whether the internal wire integration plug is loose or loose.
- Check whether the electronic components of the lamp (such as electronic transformer, PCB board, motor control board, etc.) are loose, short circuit and burned out.

4. When working, the action of X or Y axis of the lamp is abnormal

- Follow the previous step to check one by one;
- Check whether the transmission belt corresponding to the X and Y axis in the lamp falls off or breaks;
- Check whether the data feedback receiver (optocoupler) corresponding to the X and Y directions in the lamp is damaged;
- Restart the machine and reset it once.