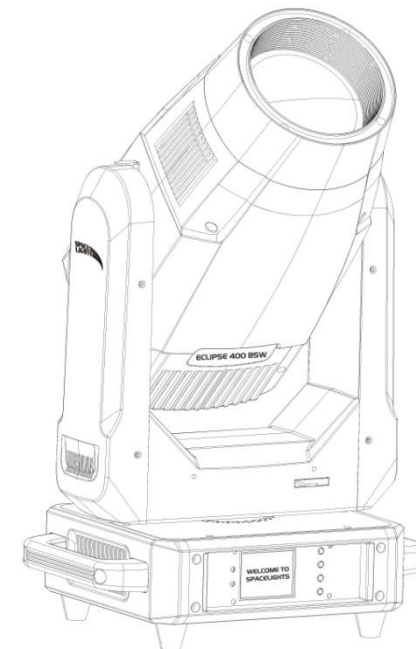




ECLIPSE 400 BSW

USER MANUAL



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DMX512 The terminal of the system needs to be equipped with a terminal to reduce errors in signal transmission.

RDM use considerations

- RDM is an extended version of DMX512-A protocol, which is the remote device management (Remote Device Management) protocol, traditional DMX512 protocol communication is one-way communication, protocol is based on RS-485 bus, RS-485 is time-sharing multi-point and semi-duplex protocol, only one port is allowed for host output at the same time, so the following points should be noted when using RDM:
- To use a console or host device that supports the RDM protocol host;
- To use the two-way signal amplifier, the traditional one-way signal amplifier is not applicable to the RDM protocol, because the RMD protocol needs feedback data, the use of the one-way amplifier will block the returned data, resulting in the search of lamps;
- 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.
- 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;

The person connecting the power supply must confirm that the power supply voltage used must meet the voltage indicated by the lamp, and must be protected by overload or leakage.



Do not connect too many lamps, or overload the work with a single power cable.

Do not use the power cord with damaged insulation, and do not place the power cord on other wires.

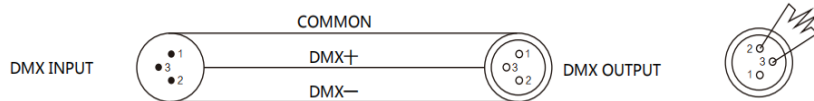
Unplug the power cord when the lamp is not used or clean.

Do not unplug or drag the power cord.

Wire color	plug	sign
brown	Live Wire	L
Blue	Neutral wire	N
Yellow/Green	Earth	⊕

Signal connection

DMX512 link



In order to reduce signal errors and avoid signal weakening and interference during transmission, a 120 ohm 1 / 4W resistance can be added between the two and three cores of the DMX output of the last machine.

Connect the lamp with the XLR signal line, one end is connected to the output port of the lamp, and the other end is connected to the input port of the next lamp. Signal lines can only be used in series, not in parallel. Because the DMX512 signal transmission speed is very fast, when the signal line is damaged, the welding place is not strong, the contact is not good, will affect the signal transmission, resulting in the system closed.

When the machine power of a unit is disconnected, the connection between DMX output and input is bypassed to maintain the connection of DMX lines

Each light should have an address code that can receive information from the console.

1/ Technical parameter

Technical parameter	
AC power	100~240V AC , 50/60Hz
Rated power	600W@220V
Lamp	400W LED
Rated life	20000h
LUX	5m 127000LX
Beam Angle	2°~40°
Color temperature	7000K

Angle of rotation	Horizontal scanning 540° Vertical scanning 270°
Shutter	0~30HZ
colour	1 Color Plate (8 colors + White light) , CMY , CTO
pattern	1 Fixed Pattern Plate (12 patterns + White light)
	7 rotating pattern
Prism	8 prism + single six row prism
dimming	0-100% linear adjustment
Frost	0-100% linear adjustment
Focus	DMX linear adjustment
Control and Programming	DMX512,RDM, master/slave synchronous control mode, self-walking mode, , single scene mode
Channel	22CH/26CH
Protection rating	IP20
Housing	High temperature resistant flame retardant plastics
AC power in/thru	Seetronic PowerCon
DMX data in/out	3-pin locking XLR
ambient temperature	2 -20°C~40°C
Lamp size	383x274x668mm
package size	750x360x470mm
Standard arrangement	Power cable 1PCS, safety rope 1PCS,DMX signal cable 1PCS, integrated folding light hook 1PCS



Fixed pattern



Rotating pattern



- ▲ This product is suitable for indoor use, its protection grade is IP20, the lamps should be kept clean, avoid use in wet or excessive dust environment, should be maintained once every three months.
- ▲ Only qualified professionals can install, operate and repair the lamps and ensure to operate in strict accordance with the procedures described in this instruction.
- ▲ The lamps shall be installed in a well ventilated place with at least 50CM away from the wall and check the ventilation holes. Do not look directly at the light source to avoid causing damage to the eyes.
- ▲ Please do not turn on the lamps for self-repair.
- ▲ The part of the electrical connection must be operated by qualified installers.
- ▲ Each lamp shall be safely grounded and electrinstalled according to the relevant standards.

Color plate/pattern plate

- ▲ Do not use the power cord with the damaged insulation layer, and do not attach the power cord on other wires. When the lamp is not used or clean, please unplug the power cord, do not unplug or drag the power cord directly.
- ▲ If the back cover of the lamp is equipped with a safety buckle or connection hole, based on safety reasons, please use the safety rope through the connection hole for auxiliary lifting.
- ▲ There are no parts in the lamp. Before operating the lamp, check whether all the parts are well connected and the screws are reliable and reliable.
- ▲ If you have any doubts, please contact the supplier or manufacturer in time, use the original package to indicate the bad reason to return

8/Lamp connection

Power connection (The power supply and fuse configuration are shown in the table below)

Power	fuse
100V-240V~	T5A, 250V

If the external soft cable or flexible cable of the lamp is damaged, the soft line shall be replaced with a soft cable or flexible cable specially provided by the manufacturer or its service agent.

- current projection distance.
 1. The light fixtures work intermittently
Reason: Internal line enters the protection state and handles 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 the bulb and replace the new bulb.
 2. The control of the console is not accepted after normal reset
Possible cause: signal line failure or abnormal lamp parameter setting, handled 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 lamps cannot be started
Possible reasons: Poor power line, treated as follows:
- Check whether the insurance on the power input socket is fused and replace the insurance;
- Poor contact of lamp travel due to vibration in long-distance transportation
- Check the input power supply, computer board and other plug-in devices.

7/Security information

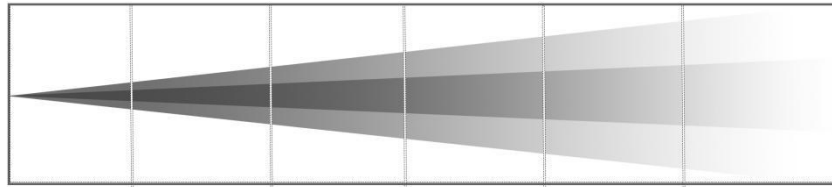


All products are well packaged when leaving the factory, please follow the user manual, Machine failure caused by human causes is not covered by the warranty.

- ▲ The light source in this lamp shall be replaced by the manufacturer or its service agent or someone with similar qualifications. If the external soft cable or soft cable of this lamp is damaged, the cable shall be replaced by a qualified person of the manufacturer or its service agent to avoid the danger
- ▲ After receiving the lamp, please open it and check for any damage caused by transportation. Do not use the lamp if it is damaged, and contact the supplier or the manufacturer quickly.

Illuminance

2/Control panel

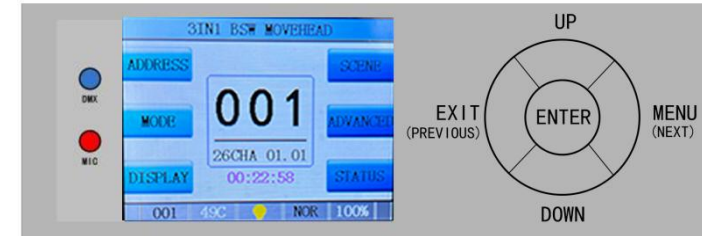


Beam Mode

distance(M)	5	10	15	20	25
illumination(LX)	127000	39000	14000	10500	7900
Spot diameter(CM)	Ø34	Ø53	Ø80	Ø107	Ø140

Gobo Mode

distance(M)	5	10	15	20	25
illumination(LX)	127000	39000	14000	10500	7900
Spot diameter(CM)	Ø47	Ø88	Ø134	Ø187	Ø220



The schematic diagram of the lamp panel is shown in the figure. The title above shows the name of the lamp, while the status bar below shows the signal, bulb status and fault of the current lamp ("ERR" is displayed when failure information is not checked, or "NOR" is displayed).

The lamp supports DMX/RDM protocol. When the lamp is searched by the RDM host, three letters "RDM" will appear on the panel, indicating that the lamp is enumerated normally.

The display and operation is similar to "Android operating system", which can be operated by clicking corresponding items with fingertips or blunt objects.

⚠ Note: Do not use sharp or sharp objects to click the display, in case of damage.

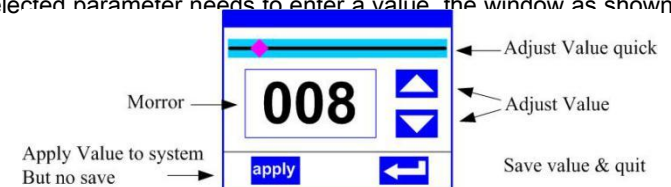
Display window function control

- Operate luminaire using intuitive touch or auxiliary input (touch enabled products)
- The left area is the TFT display area and the touch area. You can click the contents of the panel with your finger or blunt surface hardware to set parameters or view the status.
- The right area is auxiliary input. If you do not use the touch function of the TFT, you can use the auxiliary input to select the items to be set or viewed

2. Parameter value input

When the selected parameter needs to enter a value, the window as shown in the figure

will open:



Value setting page

coating surface.

Note: reset the channel value for 5 seconds.

○ Clean optical elements

1. After breaking off the power supply, cool it down thoroughly and open the lid;
2. Use a vacuum cleaner or a pressure blower to gently blow away the dust and floating objects;
3. Use odorless cotton paper or cotton cloth soaked with water, distilled water to wipe off the particles, do not wipe the surface, and blow away the floating object with pressure gas
4. Use ethylene propylene alcohol-soaked cotton cloth or odorless cotton paper to remove soot and residues, can also use glass cleaning Device, but the residue must be removed with distilled water, wiped from the center to both sides, and then dried with a soft cotton cloth

○ Clean the fan and the air vents

Remove dust from the fan and pores with a soft brush, cotton paper, air vacuum cleaner or pressure hair dryer.

6/fault handling

Lamps contain microcomputer circuit board, high voltage power supply and other professional components, for your safety and product life, non-professionals do not remove lamps and related accessories without authorization.

1. The beam looked dim

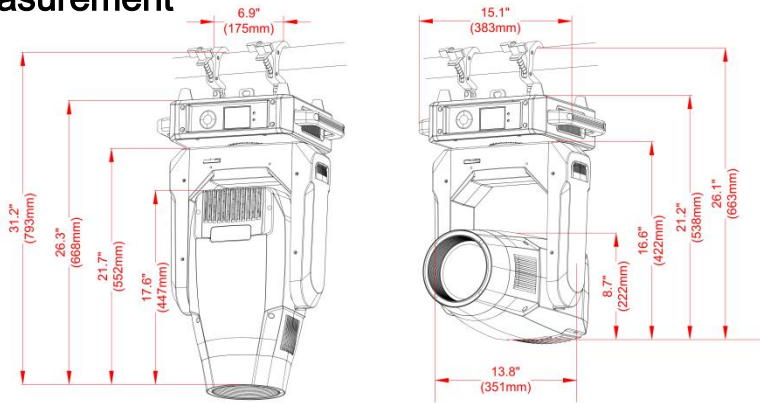
Possible reasons: bulb is used long or light path is not clean, treated as follows:

- 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.
2. The pattern projection is vague

Check if the electronic focus channel values are appropriate for the

23	20	Zoom	0-255	
24	21	Focus	0-255	From far to near (focus when channel 22 is greater than 0)
25		Focus tuning	0-255	(focus when channel 22 is greater than 0)
26	22	Reset/ function	0-209	None
			210-215	Reset the XY motor after 3 seconds
			216-219	None
			220-235	Return the effect motor after 3 seconds
			236-239	None
			240-255	Return to the whole lamp after 3 seconds

4/measurement



5/Routine maintenance



pay attention to! Excessive dust, smoke flow degree, abnormal damage caused by the use, not within the warranty scope.

warn! Disconnect the power supply before opening any lid.

○ Cleaning

Optical parts should be lightly rubbed, the coating surface is very brittle, very easy to

scratch, do not use a destructive solvent, otherwise it will damage the plastic or

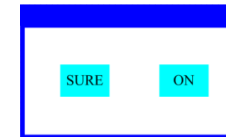
- **set numerical** : can directly pull the slider quickly set up the required value, can also click the "on" or "down" button on the right precise numerical or supplemental input set required Settings.
- **Applied value** : When the data is set by "up" or "down" button, then press the "apply"

key in the lower left corner, the value is immediately sent to the lamp, but the value is not saved.

- **Save value** : At any time, click the "OK" key in the lower right corner, that is, to save the current value to the internal storage, the next startup to save the value applied to the lamp.
- Set Boolean parameters
- when setting the parameters for Boolean values (such as ON or OFF), the switch directly click ON the corresponding item parameter value, the parameters of the modified will be saved to the internal storage. Press the parameter option on the right and the corresponding option will be grayed out. When the hand is released, the corresponding parameters are changed and saved. If pressing the parameter option is not the parameter you want to change, you can move your finger to another part of the screen and the corresponding parameter will not change.

important determine through Boolean parameters, determine the window to set, as

shown in the figure below:



Subpage (parameter)

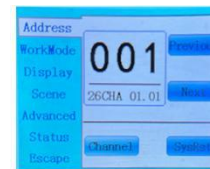


Figure 6-1

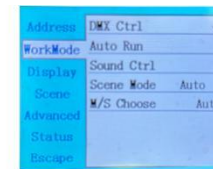


Figure 6-2



Figure 6-3

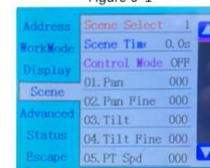


Figure 6-4

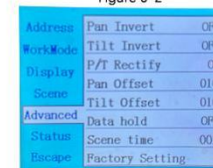


Figure 6-5

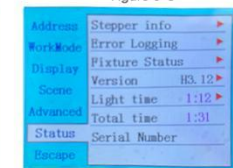


Figure 6-6

1. Functional operation and parameter setting

- In the main interface, you can enter the corresponding parameter setting interface by selecting six buttons.

In the parameter setting interface, you can press the left blue option to quickly switch to the other setting interfaces.

1. Set up the DMX address code

The DMX address and channel mode of the lamp can be set on the page as shown in Figure 6-1.

The menu setting of the lamp optimizes the setting of the address, and the address code operation is as follows:

- Select "Last" or "Next", the lamp will automatically calculate based on the current address code and channel data. One or the last one of the address code, you can quickly set;
- click the address code number, can enter the numerical editor window, here you can set the address code of any effective, automatic access to the current channel number of lamps and lanterns of lamps and lanterns, automatic filter do not use the address code (512 - the current channel number).
- support RDM protocol of lamps and lanterns, lamps and lanterns can be set by RDM remote address code.
- Two buttons are provided:
- Channel mode: Different channel modes can be selected cyclically.
- reset of lamps and lanterns: reset all motors.

2. Set the working mode of the lamp

Set the running mode of the lamp, as shown in Figure 6-2. The lamp supports four operating modes (DMX mode, self-propelled mode, voice-controlled mode and scene mode). Please refer to the previous section for detailed parameter setting. The specific parameter description is shown in the following table:

operational mode

DMX mode	Console mode, receiving the DMX signal, and the RDM signal
Self-walking mode	The lamp runs automatically according to the built-in program
Sound control mode	When the lamp detects a strong sound, the lamp automatically runs a scene according to the built-in program, otherwise maintain the last scene
Scene mode 01	The above set scenario runs in the same mode and supports custom editing

	of up to 10 scenes	
1~10	Outputs the specified scene	
automatic	Automatically output the scene in the set scene time (non-0) order, and the scene with time 0 is automatically skipped	

			100-109	From slow to fast jitter pattern 3
			110-119	From slow to fast jitter pattern 4
			120-129	From slow to fast jitter pattern 5
			130-139	From slow to fast jitter pattern 6
			140-149	From slow to fast jitter pattern 7
			150-200	From fast to slow forward flowing water
			201-205	Stop
			206-255	From slow to fast, the reverse flow of water
15	14	Rotation pattern rotation	0-127	0-360°
			128-190	From fast to slow reverse flow water
			191-192	Stop
			193-255	From slow to fast forward flowing water
16		Spin pattern fine-tuning	0-255	
17	15	Prism 1	0-127	None
			128-255	Open prism 1
18	16	Prism 1 rotation	0-127	0-360°
			128-187	From fast to slow forward flowing water
			188-195	Stop
			196-255	From slow to fast, the reverse flow of water
19	17	Prism 2	0-127	None
			128-255	Open prism 2
20	18	Prism 2 rotation	0-127	0-360°
			128-187	From fast to slow forward flowing water
			188-195	Stop

			196-255	From slow to fast, the reverse flow of water
21	19	Frost	0-127	None
			128-255	Open frost
22		Auto Focus	0-255	0-10 None;11-54 5M;55-104 10M;105-154 15M;155-204 20M;205-255 25M
			30-34	Gobo7
			35-39	Gobo8
			40-44	Gobo9
			45-49	Gobo10
			50-54	Gobo11
			55-59	Gobo12
			60-64	White
			65-69	From slow to fast jitter pattern 2
			70-74	From slow to fast jitter pattern3
			75-79	From slow to fast jitter pattern4
			80-84	From slow to fast jitter pattern5
			85-89	From slow to fast jitter pattern6
			90-94	From slow to fast jitter pattern7
			95-99	From slow to fast jitter pattern8
			100-104	From slow to fast jitter pattern9
			105-109	From slow to fast jitter pattern10
			110-114	From slow to fast jitter pattern11
			115-119	From slow to fast jitter pattern12
			120-127	White
128-190	From fast to slow reverse flow water			
191-192	Stop			
193-255	From slow to fast forward flowing water			
14	13	Rotation pattern	0-9	White
			10-19	Gobo1
			20-29	Gobo2
			30-39	Gobo3
			40-49	Gobo4

			50-59	Gobo5
			60-69	Gobo6
			70-79	Gobo7
			80-89	From slow to fast jitter pattern 1

Master from choice	When non-DMX mode, select the data output mode, the lamp automatically detects the DMX state and automatically switch the output to prevent data conflict	
	master	The lamp runs as built-in, if DMX has no signal, output data (synchronization), otherwise no data output
	slave	Lamp operate as built-in, no output data (not synchronized with other lamps)
	Auto	If the DMX has no signal, the lamp operates as built in, otherwise, the lamp works with the DMX signal

Scene mode is suitable for a single set or a small number of lamps, only need to output a fixed scene, or need to run a simple program, can be edited in the scene page without connecting the console.

If the light source is a bulb, wait 10 minutes before turning the bulb turned off.

3. Panel display settings

The lamps support Both Chinese and English, inverted display, etc. Enter the corresponding parameter setting as shown in Figure 6-3. The specific menu contents are shown in the following table:

Display settings

Screen protection	Set the display content or mode of the screen after the screen has no operation within 30 seconds	
	close	Keep the last operation page up and light up the screen
	Mode 1	Out of the screen

	Mode 2	Black screen, showing the address code of the current lamp in the lower left corner
	Mode 3	Displays the trademark information, address code and operation mode
Screen rotation	Set the display direction of the screen	
	close	No reversal is shown
	open	Reverse display
	Auto	Automatically detect the direction of lamp and automatically switch the display direction
	Set the indication mode of the DMX signal indicator light	
DMX indicate	Mode 1	When the signal is bright, and when there is no signal, go out
	Mode 2	Out when signal, bright when no signal
	Mode 3	Blink when signal, extinguish when no signal
The signal indicates brightness	Set the brightness of the signal indicator light	
	1~10	Ten grades
Screen backlight	Set the brightness of the screen backlight after 10 seconds of no operation, full bright during operation	
	1~10	Ten grades
Touch screen switch	Select whether to disable the touch screen. When the screen touch is accidentally damaged, disable the touch function and set the lamp with auxiliary input	
Touch correction	When the screen touch is not accurate, you can enter the correction page correction screen	

Lamps that support touch operation. If the bad touch phenomenon occurs, you can enter the correction page to reset the touch accuracy of the touch screen. Under normal circumstances, please do not enter this page. If the touch is damaged, select to disable the touch switch.

4. Scene mode

Entering the page, the lamp enters the scene editing mode. Under this page, the

lamp does not receive the DMX console data, and the edited data is immediately reflected on the lamp.

The content of the page depends on the currently selected channel, and the channel content and order displayed are consistent with the lamp channel table. Through this page, 10 scenes can be edited, as shown in the following table:

8	7	Color	0-9	White
			10-19	Red
			20-29	Orange
			30-39	Yellow
			40-49	Green
			50-59	Cyan
			60-69	Pink
			70-79	Magenta
			80-89	Blue
			90-99	White+Red
			100-109	Red+Orange
			110-119	Orange+Yellow
			120-129	Yellow+Green
			130-139	Green+Cyan
			140-149	Cyan+Pink
			150-159	Pink+Magenta
			160-169	Magenta+Blue
			170-179	Blue+CTO
			180-215	From fast to slow forward flowing water
			216-220	Stop
			221-255	From slow to fast, the reverse flow of water
9	8	Cyan	0-255	
10	9	Magenta	0-255	
11	10	Yellow	0-255	
12	11	CTO	0-255	

13	12	Fixed pattern	0-4	Gobo1
			5-9	Gobo2
			10-14	Gobo3
			15-19	Gobo4
			20-24	Gobo5
			25-29	Gobo6

	Sensor 1 temperature	Displays the current motherboard temperature or the ambient temperature at the motherboard installation location
Version	Display the information and version of current lamps and an important reference for after-sales maintenance	
	equipment	Name of lamp, same to equipment information of RDM
	model	Model of lamp, same as model information of RDM
	display panel	Firmware version and serial number of the display board
	motherboard 1	Firmware version and serial number of the motherboard 1
Light time	Record the total accumulative time of the light source, as a reference for regular maintenance of the light source	
Total time	Record the total cumulative time of lamp opening, unit minutes, do not clear	

			108-155	From slow to fast
			156-207	From slow to fast to random frequency strobe
			208-212	on-off
			213-251	From slow to fast to random frequency strobe
			252-255	on-off

Scene mode

Scenario selection	Select the current required action scenario	
	1~10	10 scenarios
Scene time	Sets the retention time of the current scene in 0.1 seconds	
	0	The current scene does not participate in the automatic scene output
	1-255	0..1s thru 25.5s
1. pan	0-255	Set the data of each channel, the display content and sequence correspond to the channel table of the lamp
.....	0-255	
.....	0-255	
N. function	0-255	

3/DMX Channel

DMX Channel 22CH/26CH

26CH	22CH	function	numerical value	describe
1	1	Pan	0-255	0-540°
2	2	Pan fine	0-255	0-2°
3	3	Tilt	0-255	0-270°
4	4	Tilt fine	0-255	0-1°
5		XY speed	0-255	From fast to slow
6	5	Dimmer	0-255	With 0-100% dimming
7	6	Shutter	0-3	Close
			4-103	From slow to fast pulse frequency strobe
			104-107	on-off

If the effective reset data is edited in the reset channel in the scene, the lamp will reset, but after reset, the value of the corresponding reset channel will automatically reset to prevent multiple consecutive reset.

On this page, you can get the current channel table order of the lamp. Please refer to the detailed channel description for the specific channel data.

5. Set the working parameters of the lamp

Enter the page shown in Figure 6-5, adjust the field parameters of lamps, and facilitate the field installation of lamps:

advanced setup

Pan Invert	Set the X-axis rotation direction	
	OFF	Don't reverse
	ON	reverse
Tilt Invert	Set the Y-axis rotation direction	

	OFF	Don't reverse
	ON	reverse
P/T Rectify	Set whether the lamp detects XY misstep and correct	
	OFF	Position is not corrected after the misstep
	ON	Automatic correct the position after the lost step and record the lost step fault

Pan Offset	Set the position of the lamp	
	4-150	
Tilt Offset	Set the position of the Y axis of the lamp	
	4-48	
Data hold	Set the output status of the lamp when the lamp has no DMX signal	
	OFF	No signal, so the motor and the light source return to the position and state when the reset is complete
	ON	No signal, keeping the last frame of the DMX data output
Factory Setting	The confirmation box pops up. After selecting "SURE", the lamp parameters return to the factory settings	

When the lamp cannot correct the position, first check whether the optical coupling correction is closed.

When the signal is removed, if the lamp position is not output as intended, check the Data Hold setting first.

When setting the XY offset, after completing the setting, please control the XY with the maximum stroke to check the setting, XY will not hit the positioning rod.

6. View the current status of the lamp

Entering the page shown in Figure 6-6, you can view the information and real-time status of the lamps to know the use status of the lamps. If the lamps need an after-sales service, please provide the status information displayed on the page as the judgment basis, as shown in the following table:

status information

Stepper info	Display the information status of all the motors and signals in the lamp	
	Hoare	Not shown, means the motor has not Hall corrected, 0 means the motor leaves the correction position point, and 1 means the motor is at the correction position point
	status	Show the motor reset completion state
	Pan	Displays the real-time position value of the X-axis optical coupling feedback
	Tilt	Display the real-time position value of the Y-axis optical coupling feedback
	optocoupler	Show the level state of two signals with X and Y axis, binary
Error Logging	Display the last 8 fault records of lamp reset and operation, the fault records are not saved after power failure, when the next power cycle is valid	
	Fault data	Total number of faults detected after power-on
	12: :03	Power time in minutes
	Hall fault	The corresponding motor does not detect an effective Hall signal when the motor is reset
	Hall short circuit	The Hall signal of the motor detected at the corresponding motor reset is always valid
	Optical coupling failure	No effective photocoupling signal is detected when the corresponding motor is reset
	fall out step	The corresponding motor loses its step during operation
	Crash rod	Cragainst the positioning lever when the motor is reset
	Bulb failure	Light bulb accidentally extinguished
	Sensor failure	Temperature sensor signal is abnormal

	Fan fault	The main fan is not working properly
Fixture Status	Displays the critical status data for the current lamp for reference	
	communication	0~100%, the communication quality of the data link within the lamp
	miscount	The number of error frames detected after power, accumulated
	Light source temperature	Show the temperature of the current light source, "- - -" indicates no detection
	Display plate temperature	Displays the temperature of the current display board or the nearby ambient temperature