WAVE Bar 660

User Manual

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TECHNICAL PARAMETERS

Light source

Voltage: AC100-240V 50/60HZ
Power supply: 400W
LED: 6*60W RGBW 4in1 LED

Optical

Beam angle: 2.8-31 degrees
Spot angle: 5 ° -55 °

Controls

Control signal: DMX512，RDM, Master slave, voice controlled or self-propelled program
Control channel: CH20. CH35. CH59. CH89. CH91. CH101 Default channel CH35
Power connection method: Power input/output, maximum connection quantity @ 5 units 230V, 3 units 120V
Signal connection method: DMX512 input/output, maximum connection quantity of 30 3-core units
Support network protocol Artnet
Display screen: Chinese and English menus, touch 4 keys, 2.4-inch display screen
Focusing system: segmented independent single point single control

Effect

Strobe frequency: 1-25Hz
Dimming: Electronic dimming with 0-100% linear adjustment, with gamma curve dimming frequency adjustable from 1.2K to 25K, macro command dimming with linear stability and smoothness without flicker, using stable constant current drive and power supply, suitable for video recording and shooting

Construction

Vertical angle: 220 ° in the vertical direction (16 bit precision scanning). The Y- axis adopts high-speed mute for faster and smoother operation. When there is a misoperation, it can automatically return to its original position, and the vertical speed is adjustable; Y-axis rotation function and reverse function; Using optical electromagnetic coding for high-precision positioning
Vertical control: independent single head control swing
Splicing method: Can be quikly spliced horizontally Working temperature:- 10 °C 45 °C
IP rating: IP22

Weight&Dimension

Net weight: 13.05KG
Gross weight: 15KG
Product size: 500 * 139.76 * 295.5MM (excluding machine foot height)
Packaging size: 513 * 34 * 19CM (1IN1)

Act 1 Notes and installation

1. Removet he packaging

To correctly and safely use the product, please read the instructions carefully before installing and using the product. This specification contains important
installation and application information. Please strictly follow the operation
procedures when installing and operating the product. At the same time, please keep this instruction manual properly.
The beam beam lamp strictly follows CE standards, in line with the international standard DMX512 signal protocol, can be used alone control, can also be used online, with fast rotation, low noise, powerful characteristics, suitable for small and
medium-sized concerts, theaters, studios, nightclubs and bars and other places.
Please remove the package carefully, check whether the product is damaged during transportation, and check whether the following contents are complete.

Thousand-hand Guanyin huahuaxiang beam lamp- - - - -1 signal line- - - -1 Manual- - - -1 book, power cord- - - -1
Hanging parts- - - -1 set
The product is not equipped with relevant repair accessories. Product maintenance and repair can only be carried out by professionals!
Please do not change this product without authorization, otherwise the product may be damaged, so the damage caused is not covered by the warranty. Also, unprofessional operations can lead to short circuits, burns or electric shocks, and so on.

2. Safety instructions

pay attention to! Please be careful before operating this product, this product is high voltage product, if contact wire may be electric shock!

This product is a good product before delivery. In order to keep the product in good condition and ensure safe operation, users should follow the safety matters and the instructions. Important: Damage caused by not following this instruction is not covered by the warranty. The supplier is not responsible for the product problems arising from this. If the product has been exposed to extreme unstable temperature conditions (e. g., after transportation), do not supply the product immediatelybecause water drops due to temperature changes may damage the product. Please use the product has returned to normal temperature.

This product can be used in the voltage range of 90-240V, and is used for indoor products. Please ensure that the ground voltage is not higher than the tolerable

range of the product!! The power plug must be plugged into a protective class I socket. Green or tea-cyan conductors must be grounded.

Please check the product-level power cord frequently. Ensure that the power cord is not folded or damaged and not connected to other wires! Special attention is

required when connecting the power cord or the related wiring. Unplug the power supply without using the product or before cleaning.

Before using the product, please be familiar with the operation function of the product. Please do not expose children or no professionals to the product.

Please do not shake this product. Do not use brute force when installing or operating the product. Do not allow unprofessionals to operate the product. Most of the damage is caused by an unprofessional operation.

The product is not equipped with relevant repair accessories. Product maintenance and repair can only be carried out by professionals!

Please do not change this product without authorization, otherwise the product may be damaged, so the damage caused is not covered by the warranty. Also, unprofessional operations can lead to short circuits, burns or electric shocks, and so on.

3. Productprecautions

● If the product after a large temperature difference (for example, after transportation), do not immediately start the product, because the heat account cold contraction will
damage the product. Please wait until the device reaches the normal room temperature before starting the product.

● pay attention to shock. Avoid strong collisions during product installation.

● Please do not raise the whole product through the lamp head, because the mechanical nature of the equipment may be damaged.

● When selecting the installation site, make sure that the product is not exposed to

overheated, excessively wet, or dusty areas. Please do not place any wires on the ground or you may be in danger of suffering an electric shock.

● Before installing the product, please ensure the installation point security.

● Please attach the product to the safety rope and check that all the screws are correct during installation.

● Make sure that the lens is in good condition. Replace the lens when the lens is damaged or scratched.

● It is recommended that technicians familiar with the product operate the product. Non -technical personnel are prohibited from operating this equipment because many losses are the result of non-professional operations.

● Please keep the packing materials properly for secondary transportation as required.

● Do not change the product without authorization without the guidance of the manufacturer or distributor.

● Any equipment failure caused by failing to use the equipment according to the
instructions is not covered by the warranty. And any accident caused by short circuit, injury, electric shock, ultraviolet light caused by injury, bulb explosion accidents are not within the scope of warranty.

4. Lighting installation

Note: For more safety, install this product away from the walkway, seating area, or accessible area.

This lamp can be placed horizontally, oblique hanging and upside down, oblique hanging and upside down must pay attention to the installation method. Fixed installation of lamps: before the positioning of lamps, ensure the stability of the installation site, the lamps must not fall off the support frame, and use the support frame and the safety rope for auxiliary hanging; to ensure safety. Prevent the falling and sliding of the lamps and lanterns. During the installation and debugging, the safety rope is worn and the hook screw is loose. If the hanging installation is not stable, and all the consequences of the lamps falling, the manufacturer will not bear any responsibility.

Before hanging the product, ensure that the installation point supports 10 times the weight of the product.

Product installation must have a double protection device, such as a safety rope.

When hanging, removing or repairing the product, it is prohibited to stand under the installation point.

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

Hanging point: the top hanging requires that the installation personnel must be

experienced, including calculating the load-bearing requirements, the installation

materials used, and the periodic inspection of the safety status of the installation materials and products. If you lack this knowledge, please do not try to install it yourself. If not incorrectly, it may lead to serious consequences such as personal

injury.

Make sure that all the required hanging and installation steps are completed before the product is powered on.

Quick lock hanging: there are specially designed professional pendants at the bottom of this product, including quick lock pendant and safety rope hanging points (please refer to the figure below).

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

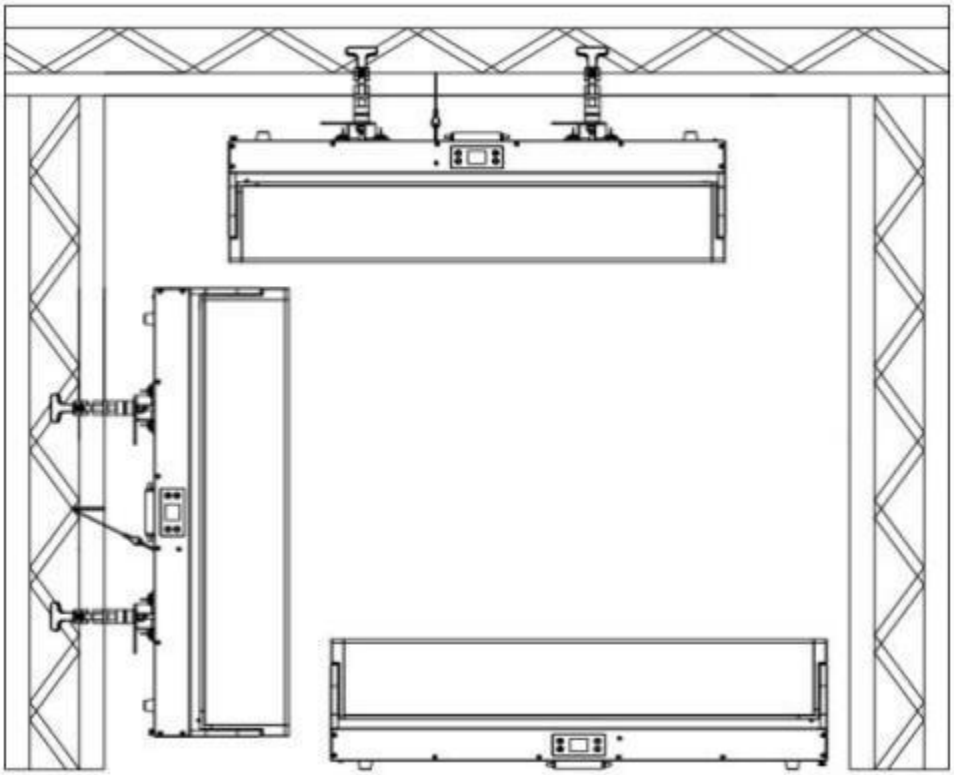


Figure 1 Schematic diagram of the lamp installation

Whatever hanging you choose, please remember to use a safety rope. The bottom of the product is equipped with a special safety rope hanging point, please refer to the above figure, and please remember to use the specially provided safety rope hanging point, do not put the safety rope in the handle position.

DMX-512linkage

This lamp uses DMX512 signal control mode, and the control signal of each lamp is in parallel. When connecting the signals of multiple lamps, it is best to use dual- core shielding cable. When connecting, each lamp is connected through the DMX signal jack (Canon seat) INPUT (input) and OUTPUT (output). The 3-core XLR plug terminal of the signal line connecting the lamp must correspond to each other. When connecting the lamp signal, it is recommended to use the DMX signal terminal. To damaging the control signal due to electrical noise, the DMX signal terminal is a 120 ohm 1W resistance between the 2 and three feet of an XLR plug and connects it to the OUTPUT (output) jack of the last lamp.

Calculation method of lamp starting address code:

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

1: Start address code value A001 of the first lamp.

2: The basic number of controller should be greater than or equal to the total number of lighting channels.

3: Note: when any controller is used, each lamp must have its own starting address code. If the starting address code of the first lamp is set A001, the pass number of the lamp is 16 CH; then the starting 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 should be determined by different console).

Please plug the male header of the XLR signal line into the signal output port of the controller and the master head into the signal input port on the back board of the product. You can talk about multiple

products in series, the signal line needs to be three-heart, shielded, with XLR input and output head. Please refer to the figure below.

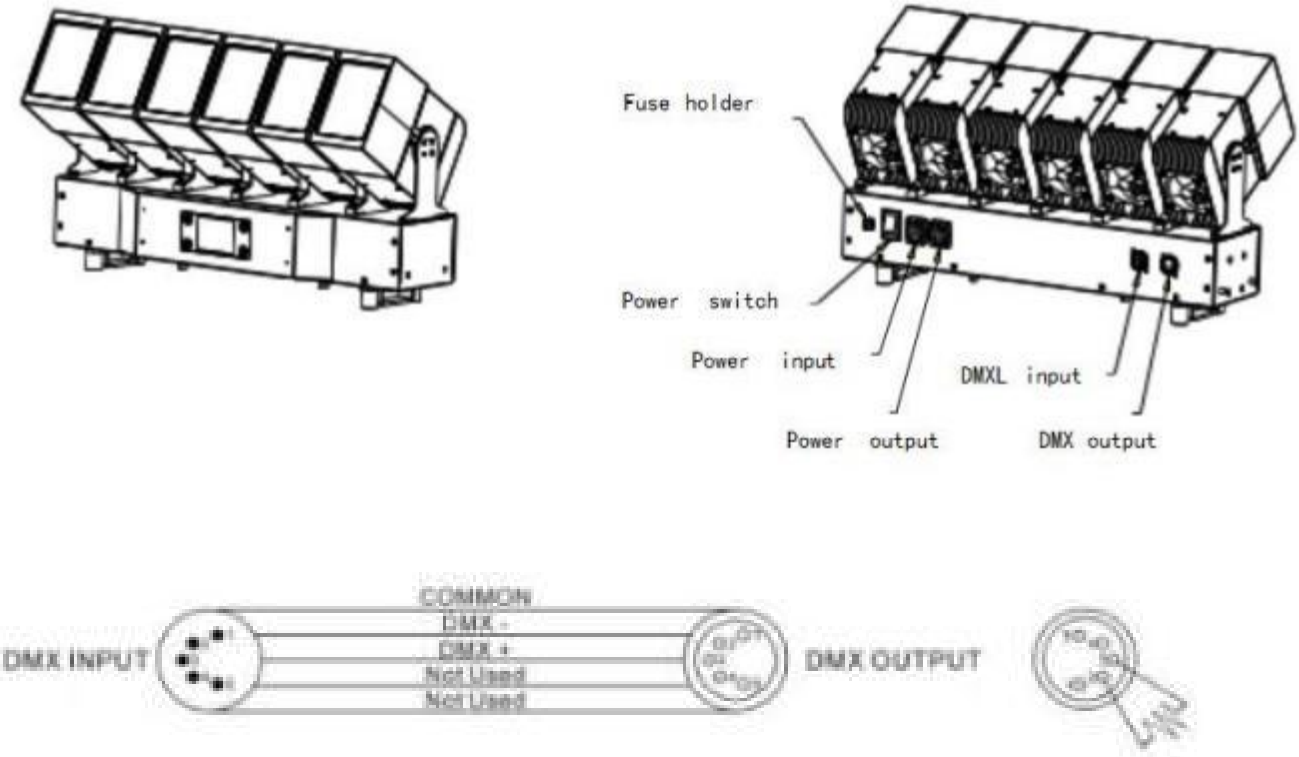


Figure Figure 2. A. Schematic diagram of the DMX512 connection

Act 2 Panel operation

1. Lamp panel

The lamp panel schematic is asgraph 3As shown:

1) Signal light: DMX signal light is above; when the blue light is connected with the control table, no light is in normal condition; when the lamp is wrong, no light is in normal condition.

2) Temperature: as shown in the figure, the temperature of the lamp board is 30 degrees Celsius; if the temperature shows- - - ℃, the temperature of the lamp is abnormal. It may break the temperature control connection line. If the temperature shows * * * ℃, and the obvious difference from the ambient temperature is too large, it may be the temperature control cable short circuit. Need professionals to repair and troubleshoot, before normal use.

3) Address code: display range 001-512, the address code is 001.

4) DMX mode: 512 mode.

5) Key: UP: Upper key

MENU: Return to the key

ENTER: The confirmation key DOWN: Down the key

Note: Do not use sharp or sharp display to prevent damage.

graph3Schematic representation of the four-key disp lay panel

2. Menu first interface

The first interface of the menu contains 6 sub-menus. Select the corresponding sub- menu through the "UP" key and "DOWN" key, and click the "ENTER" key to enter the
corresponding sub-menu interface. The first interface of the menu is shown in Figure 4:

1）Address: Click to enter the address code setting, and increase or reduce the number of address codes by passing the "UP" key and "DOWN" address key. At this time, the address code displayed in the lamp panel will also be updated synchronously.

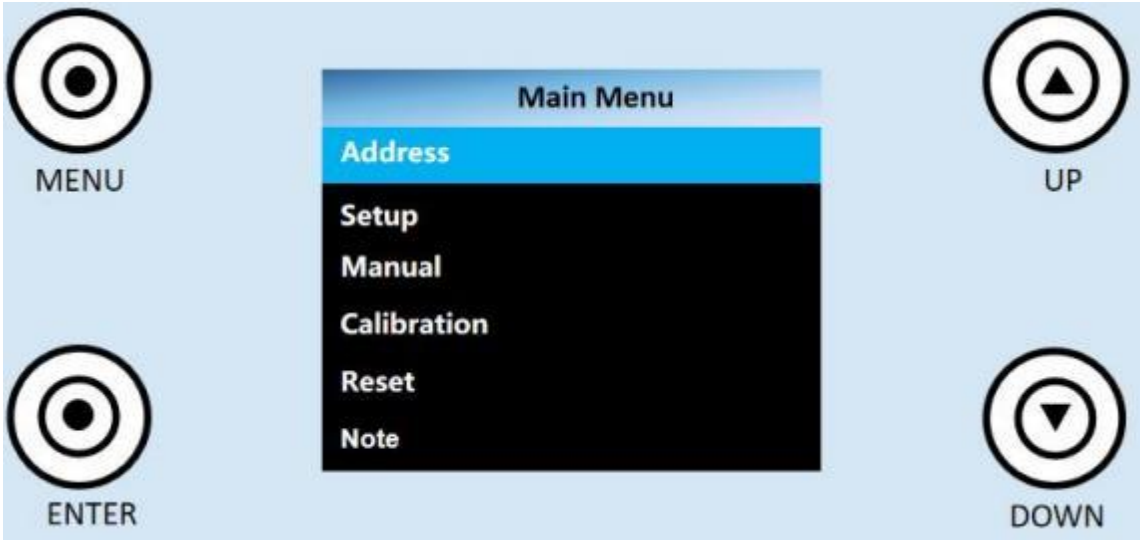
2) Settings: Click to enter the system option to change the working mode, working parameters and panel display settings of the lamp.

3) Manual: Click to enter the manual mode to control the function of the lamp. For the specific content, see the channel table.

4) Calibration: Click to enter the password to enter the system calibration mode.

5) Reset: click to enter the system reset mode and conduct the bulb control.

6) Information: Click to enter the system error correction, hardware and software version and other information.



2.1 System Settings

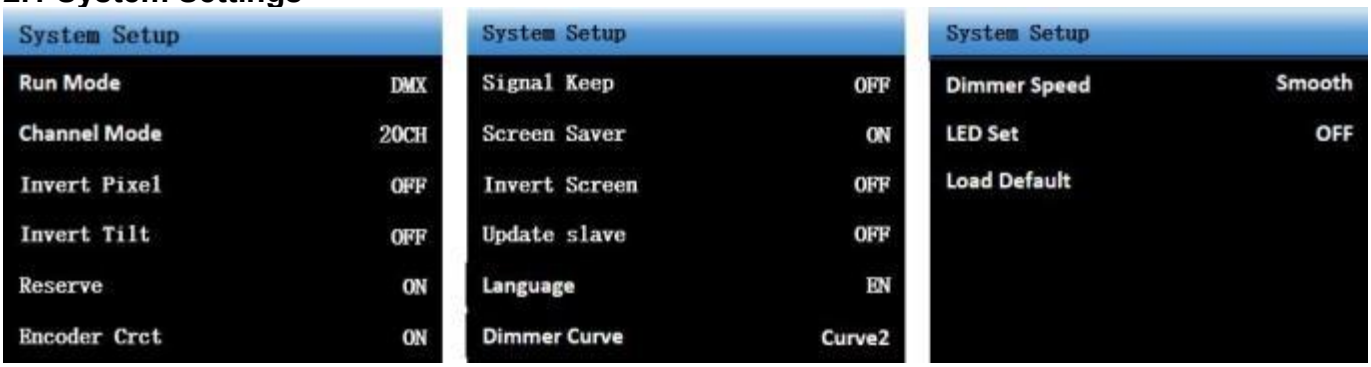


Figure 5. System Setup window

The system setting interface is shown in Figure 5. Enter the system setting, click "ENTER" to select the settings to be modified, then select the changed content through "UP" and "DOWN" button, and "ENTER" button to confirm and change the working mode, working parameters and Settings of the panel display. The details are shown in Table 1.

option	explain	
work pattern	Lighting operating mode: DMX / voice control / walk 1 / walk 2	
	DMX pattern	Console mode, receiving the DMX signal
	Self-walking mode 1	The lamp runs automatically according to the built-in self-walk program 1
	Self-walking mode 2	The lamp shall be run automatically according to the built-in self-walk program 2
	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
channel pattern	20CH 91CH 35CH 59CH 89CH 101 CH	
Pixel reversal	Set the pixel direction	
	close	Dont reverse
	open	opposite direction
Vertical reversal	Set the Y-axis direction	
	close	Dont reverse

	open	opposite direction

Reserved function 1	Turn on / off	
Preserve function 2	Turn on / off	
The signal to keep	Output status of the lamp with no DMX signal	
	close	There is no signal, so the motor and the light source return to the position and state when the reset is complete
	open	No signal, keeping the last frame of the DMX data output
Screen protection	The screen is bright for a long time	
	close	Often bright
	open	In a static environment, the screen timing off the screen
Screen flip	close	The screen is positive
	open	The screen reverse
	voluntarily	The system can automatically rotate the screen according to the direction of gravity
Synchronous update	Synchronize the setting parameters or calibration parameters of multiple lamps	
	close	The synchronous update function is turned off.
	open	After opening, connect multiple lamps with DMX cable, and the information can be updated synchronously in the setting interface and calibration interface.(Note: Remove the DMX signal wire connected to the console)
language	the Chinese language /EN	
	Curve 1	straight line

The dimming curve	Curve 2	Square rate curve
	Curve 3	Anti-square rate curve
	Curve 4	S curve
The dimming speed	fast	Quick dimming
	smoothing	Slow dimming
LED number	Set the lamp head ID	
	close	The lamp ID editing function is off
	1-6	After selecting the ID to be edited and click confirm, the Y axis automatically enters the editing mode vertically. At this time, break the Y axis in the screen direction until the red light rises, and break the Y axis in the opposite direction until the red light goes out, indicating that the editing of the lamp head ID has been successful
factory data reset	Lighting parameters are returned to the factory settings	
	cancel	res sic stantibus
	affirm	Light ture to factory settings

primary menu	Sublevel menu	Three-level menu / parameters
address	001 - 512	(Number of channels added each time, minus normal)
	running mode	DMX / self walking 1 / self 2 / voice control
	channel pattern	20CH 91CH 35CH 59CH 89CH 101CH
	Pixel reversal	Open / close
	Vertical reversal	Open / close

System Settings	Reserved function 1	Open / close
	Preserve function 2	Open / close
	The signal to keep	Open / close
	Screen protection	Open / close
	Screen flip	Open / close / automatic
	Synchronous update	Open / close
	language	centre /EN
	The dimming speed	Fast / smooth
	The dimming curve	Curve 1 / curve 2 / curve 3 / curve 4
	LED number	Pass / 1-6
	factory data reset	Confirm / cancel
manual mode	Current channel mode channel	0-255
system calibration	enter password	Lighting calibration
system reset	Effect motor reset	Effect disc reset other than XY
	Scan the motor for reset	The XY axis was reset only
	Full motor reset	Lamps reset
system info	Reset information	Device error message
	And DMX data monitoring	Channel values for the receiving console
	sensor information	Sensor status information
	Hardware version	Displays the hardware version
	software release	Displays the software version

2.2 System calibration

Calibration	
TILT-1	127
Focus-1	127
TILT-2	127
Focus-2	127
TILT-3	127
Focus-3	127
TILT-4	127
Focus-4	127
TILT-5	127
Focus-5	127
TILT-6	127
Focus-6	127
TILT-7	127
Focus-7	127
TILT-8	127
Focus-8	127
TILT-9	127
Focus-9	127
TILT-10	127
Focus-10	127
TILT-11	127
Focus-11	127
TILT-12	127
Focus-12	127
Power	255

Calibration	
Balance-Blue	255
Balance3-White	255
Balance1-Red	255
Balance1-Green	255
Balance1-Blue	255
Balance1-White	255
Balance2-Red	255
Balance2-Green	255
Balance2-Blue	255
Balance2-White	255
Balance3-Red	255
Balance3-Green	255
Balance3-Blue	255
Balance3-White	255
Balance4-Red	255
Balance4-Green	255
Balance4-Blue	255
Balance4-White	255
Balance5-Red	255
Balance5-Green	255
Balance5-Blue	255
Balance5-White	255
Balance6-Red	255
Balance6-Green	255
Balance6-Blue	255

Calibration	
Balance7-Green	255
Balance7-Blue	255
Balance7-White	255
Balance8-Red	255
Balance8-Green	255
Balance8-Blue	255
Balance8-White	255
Balance9-Red	255
Balance9-Green	255
Balance9-Blue	255
Balance9-White	255
Balance10-Red	255
Balance10-Green	255
Balance10-Blue	255
Balance10-White	255
Balance11-Red	255
Balance11-Green	255
Balance11-Blue	255
Balance11-White	255
Balance12-Red	255
Balance12-Green	255
Balance12-Blue	255
Balance12-White	255
MIC	127
Change password	>>

Figure 6. The system calibration interface

Press "6688" to enter the system calibration interface. Change the value through the "UP" key and "DOWN" key to modify the lamp power and motor stroke parameters. The system calibration interface is shown in Figure 6, and the details are shown in Table 3

option	explain
Initial position calibration	After entering the sub-interface, the reset position of Y- axis 1-6 motor and focusing motor 1-6 can be adjusted to compensate for the error on the hardware installation. The adjustment range is + -127 values (representing up / down / left / left / right), and 127 indicates no adjustment.
white balance	After entering the sub-interface, the white~balance of LED1-6 can be adjusted. The adjustment range of 0 255,255 indicates that there is no adjustment.
power	After entering the sub-interface, the maximum power of the lamp can be adjusted, and 255 indicates the maximum power
change password	Set the system calibration password

Table 3

2.3 Manual mode

Figure 7. Manual mode interface

2.4 System reset

Figure 8. The system reset interface

2.5 System information

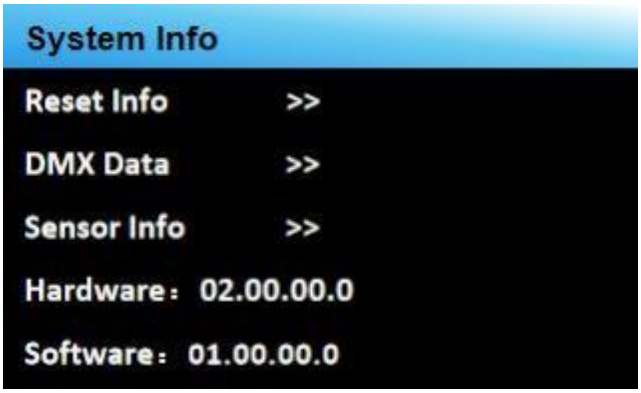


Figure 9. The system information interface

Press the "ENTER" key directly to enter the information interface, select the "UP" key and "DOWN", and then click "ENTER" to view the corresponding content. The system calibration interface is shown in Figure 8, and the details are shown in Table 4.

option	explain

Reset the error message	1) IC1 / IC2 communication fault (communication failure between light board and display board) 2) X / Y optical coupling error reporting 3) Focal adjustment motor reset failure
And DMX data monitoring	This enters the subinterface to display channel values for viewing

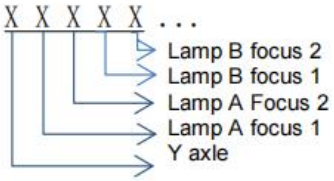
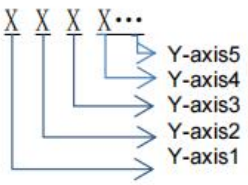
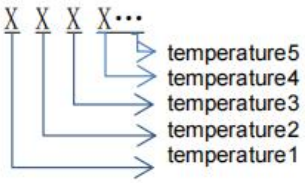
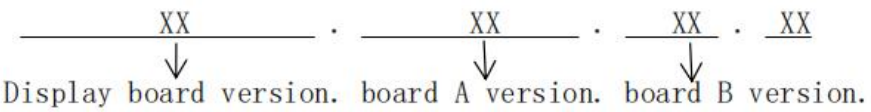
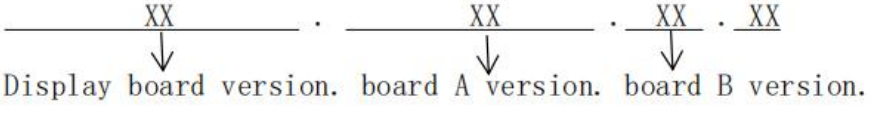
sensor information	1) Blow up Hall:  2) Y-axis hall:  3) Temperature 1-12  Note: Up and down keys to turn the page
Hardware version number	Lighting hardware information 
Software version number	Lamp software version 

Table 4

Act 3 Channel description and technical parameters

1. channel table

20CH

channel	function	value	Set the percentage
1	Y axis 1-6	000 - 255	0-100%
2	Fine-tune the Y-axis 1- 6	000 - 255	0-100%
3	Y axis speed	000 - 255	0-100%
4	Y axis macro	000 - 004	NF
		005 - 255	Refrefer to the Y-axis grand table
5	colour temperature	0	NF
		001 - 255	From 19,000 K to 2,700 K
6	Color macro	0	NF
		001 - 255	Please refer to the grand color map chart
7	pattern	0	NF
		001 - 255	Pattern # 1-255
8	Built-in LED effect	000 - 015	NF
		016 - 255	One effect for every 8 values
9	Built-in LED effect speed	000 - 127	Fast to slow
		128	cease
		129 - 255	Slow to fast
10	LED built-in effect delay	000 - 255	speed
11	background color	0	NF
		001 - 255	Please refer to the grand color map chart
12	Background color dimming	000 - 255	0-100%
13	aiming	000 - 255	0-100%
14	stroboflash	000 - 019	close
		020 - 255	See the strobe chart
15	Scale 1-6	000 - 255	0-100%
16	control	000 - 009	NF
		010 - 255	See the control chart
17	Red cyan	000 - 255	0-100%
18	Green magenta	000 - 255	0-100%
19	Blue yellow	000 - 255	0-100%
20	white	000 - 255	0-100%

91CH

channel	function	value	Set the percentage
1	control	000-009 010-255	NF See the control chart
2	Y axis speed	000-255	speed
3	Y axis macro	000-004	NF
		005-255	Please refer to the Y axis table
4	colour temperature	0	NF
		001-255	From 19,000 K to 2,700 K
5	Color macro	0	NF
		001-255	Please refer to the grand color map chart
6	pattern	0	NF
		001- 002	Pattern # 1-255
7	Built-in LED effect	000- 015	NF
		016- 225	One effect for every 8 values
8	Built-in LED effect speed	000- 127	From fast to slow
		128	cease
		129- 255	From slow to fast
9	LED built-in effect delay	000- 255	speed
10	background color	0	NF
		001- 255	Please refer to the grand color map chart
11	Background color dimming	000- 255	0-100%
12	Background color fine- tuning	000- 255	0-100%
13	stroboflash	000- 019	close
		020 - 255	View the flash chart
14	Y axis 1	000- 255	0-100%
15	Fine tuning Y axis 1	000- 255	0-100%
16	Scale 1	000- 255	0-100%
17	Tuning 1	000- 255	0-100%
18	Fine tuning dimming 1	000- 255	0-100%
19	Red 1 cyan 1	000- 255	RGBW mode: 0-100% / CMY mode: 100- 0%
20	Fine tuning red 1 tuning cyan 1	000- 255	RGBW mode: 0-100% / CMY mode: 100- 0%
21	Green 1 and magenta 1	000- 255	RGBW mode: 0-100% / CMY mode: 100- 0%
22	Fine tuning green 1	000- 255	RGBW mode: 0-100% / CMY mode: 100- 0%

	tuning magenta 1		
23	Blue 1 and yellow 1	000- 255	RGBW mode: 0-100% / CMY mode: 100- 0%
24	Fine tune blue 1 fine tune yellow 1	000- 255	RGBW mode: 0-100% / CMY mode: 100- 0%
25	White 1	000- 255	RGBW mode: 0-100% / CMY mode: 100- 0%
26	Fine-tune white 1	000- 255	RGBW mode: 0-100% / CMY mode: 100- 0%
27	Y axis 2	000- 255	0-100%
28	Fine tuning Y axis 2	000- 255	0-100%
29	Scale 2	000- 255	0-100%
30	Tuning 2	000- 255	0-100%
31	Fine tuning dimming 2	000- 255	0-100%
32	Red, 2 in cyan, 2	000- 255	RGBW mode: 0-100% / CMY mode: 100- 0%
33	Fine tune red 2 fine tune cyan 2	000- 255	RGBW mode: 0-100% / CMY mode: 100- 0%
34	Green 2 and magenta 2	000- 255	RGBW mode: 0-100% / CMY mode: 100- 0%
35	Fine tune green 2 fine tune magenta 2	000- 255	RGBW mode: 0-100% / CMY mode: 100- 0%
36	Blue 2 and yellow 2	000- 255	RGBW mode: 0-100% / CMY mode: 100- 0%
37	Fine tune blue 2 fine tune yellow 2	000- 255	RGBW mode: 0-100% / CMY mode: 100- 0%
38	White 2	000- 255	RGBW mode: 0-100% / CMY mode: 100- 0%
39	Fine-tune white 2	000- 255	RGBW mode: 0-100% / CMY mode: 100- 0%
40	Y axis 3	000- 255	0-100%
41	Fine tuning Y axis 3	000- 255	0-100%
42	Scale 3	000- 255	0-100%
43	Tuning 3	000- 255	0-100%
44	Fine tuning dimming 3	000- 255	0-100%
45	Red 3 cyan 3	000- 255	RGBW mode: 0-100% / CMY mode: 100- 0%
46	Fine tuning red 3 tuning cyan 3	000- 255	RGBW mode: 0-100% / CMY mode: 100- 0%
47	Green 3 and magenta 3	000- 255	RGBW mode: 0-100% / CMY mode: 100- 0%
48	Fine tune green 3, fine tune magenta 3	000- 255	RGBW mode: 0-100% / CMY mode: 100- 0%
49	Blue 3 yellow 3	000- 255	RGBW mode: 0-100% / CMY mode: 100- 0%
50	Fine tune blue 3 fine tune yellow 3	000- 255	RGBW mode: 0-100% / CMY mode: 100- 0%

51	White 3	000- 255	RGBW mode: 0-100% / CMY mode: 100- 0%
52	Fine-tune white 3	000- 255	RGBW mode: 0-100% / CMY mode: 100- 0%
53	Y axis 4	000- 255	0-100%
54	Fine tuning Y axis 4	000- 255	0-100%
55	Scale 4	000- 255	0-100%
56	Tuning 4	000- 255	0-100%
57	Fine tuning dimming 4	000- 255	0-100%
58	Red, 4 in cyan, 4	000- 255	RGBW mode: 0-100% / CMY mode: 100- 0%
59	Fine tuning red 4 tuning cyan 4	000- 255	RGBW mode: 0-100% / CMY mode: 100- 0%
60	Green 4 in magenta 4	000- 255	RGBW mode: 0-100% / CMY mode: 100- 0%
61	Fine tune green 4 fine tune magenta 4	000- 255	RGBW mode: 0-100% / CMY mode: 100- 0%
62	Blue 4 and yellow 4	000- 255	RGBW mode: 0-100% / CMY mode: 100- 0%
63	Fine tune blue 4 fine tune yellow 4	000- 255	RGBW mode: 0-100% / CMY mode: 100- 0%
64	White 4	000- 255	RGBW mode: 0-100% / CMY mode: 100- 0%
65	Fine-tune white 4	000- 255	RGBW mode: 0-100% / CMY mode: 100- 0%
66	Y axis 5	000- 255	0-100%
67	Fine tuning Y axis 5	000- 255	0-100%
68	Scale 5	000- 255	0-100%
69	Tuning 5	000- 255	0-100%
70	Fine tuning dimming 5	000- 255	0-100%
71	Red, 5 in cyan, 5	000- 255	RGBW mode: 0-100% / CMY mode: 100- 0%
72	Fine tuning red 5 tuning cyan 5	000- 255	RGBW mode: 0-100% / CMY mode: 100- 0%
73	Green 5 in magenta 5	000- 255	RGBW mode: 0-100% / CMY mode: 100- 0%
74	Fine tune green 5 fine tune magenta 5	000- 255	RGBW mode: 0-100% / CMY mode: 100- 0%
75	Blue 5 and yellow 5	000- 255	RGBW mode: 0-100% / CMY mode: 100- 0%
76	Fine tune blue 5 fine tune yellow 5	000- 255	RGBW mode: 0-100% / CMY mode: 100- 0%
77	White 5	000- 255	RGBW mode: 0-100% / CMY mode: 100- 0%
78	Fine-tune white 5	000- 255	RGBW mode: 0-100% / CMY mode: 100- 0%
79	Y axis 6	000- 255	0-100%
80	Fine tuning Y axis 6	000- 255	0-100%
81	Scale 6	000- 255	0-100%

82	Dim 6	000- 255	0-100%
83	Fine tuning dimming 6	000- 255	0-100%
84	Red 6 in cyan 6	000- 255	RGBW mode: 0-100% / CMY mode: 100- 0%
85	Fine tune red 6 fine tune cyan 6	000- 255	RGBW mode: 0-100% / CMY mode: 100- 0%
86	Green 6 in magenta 6	000- 255	RGBW mode: 0-100% / CMY mode: 100- 0%
87	Fine tune green 6 fine tune magenta 6	000- 255	RGBW mode: 0-100% / CMY mode: 100- 0%
88	Blue 6 and yellow 6	000- 255	RGBW mode: 0-100% / CMY mode: 100- 0%
89	Fine tune blue 6 fine tune yellow 6	000- 255	RGBW mode: 0-100% / CMY mode: 100- 0%
90	White 6	000- 255	RGBW mode: 0-100% / CMY mode: 100- 0%
91	Fine-tune white 6	000- 255	RGBW mode: 0-100% / CMY mode: 100- 0%

35CH、59CH、89CH、101CH

35 CH	59 CH	89 CH	101 CH	function	value	Set the percentage
1	1	1	1	Y axis 1	000- 255	0-100%
2	2	2	2	Fine tuning Y axis 1	000- 255	0-100%
3	3	3	3	Y axis 2	000- 255	0-100%
4	4	4	4	Fine tuning Y axis 2	000- 255	0-100%
5	5	5	5	Y axis 3	000- 255	0-100%
6	6	6	6	Fine tuning Y axis 3	000- 255	0-100%
7	7	7	7	Y axis 4	000- 255	0-100%
8	8	8	8	Fine tuning Y axis 4	000- 255	0-100%
9	9	9	9	Y axis 5	000- 255	0-100%
10	10	10	10	Fine tuning Y axis 5	000- 255	0-100%
11	11	11	11	Y axis 6	000- 255	0-100%
12	12	12	12	Fine tuning Y axis 6	000- 255	0-100%
13	13	13	13	Y axis speed	000- 255	speed
14	14	14	14	Y axis macro	000-004	NF
					005- 255	Please refer to the Y axis table
15	15	15	15	colour temperature	0	NF
					001- 255	From 19,000 K to 2,700 K
16	16	16	16	Color macro	0	NF
					001- 255	Please refer to the grand color map chart
					0	NF

17	17	17	17	pattern	001- 002	Pattern # 1-255
18	18	18	18	Built-in LED effect	000- 015	NF
					016- 255	One effect for every 8 values
19	19	19	19	LED built-in effect speed	000- 127	Fast to slow
					128	cease
					129- 255	Slow to fast
20	20	20	20	LED built-in effect delay	000- 255	speed
21	21	21	21	backgrou nd color	0	NF
					001- 255	Please refer to the grand color map chart
22	22	22	22	Backgrou nd color dimming	000- 255	0-100%
-	-	23	23	Backgroun d color fine- tuning	000- 255	0-100%
23	23	24	24	aiming	000- 255	0-100%
-	-	25	25	Fine tuning dimming	000- 255	0-100%
24	24	26	26	stroboflash	000- 019	close
					020- 255	See the strobe chart
25	25	27	27	Scale 1	000- 255	0-100%
26	26	28	28	Scale 2	000- 255	0-100%
27	27	29	29	Scale 3	000- 255	0-100%
28	28	30	30	Scale 4	000- 255	0-100%
29	29	31	31	Scale 5	000- 255	0-100%
30	30	32	32	Scale 6	000- 255	0-100%
31	31	33	33	control	000- 009	NF
					010- 255	See the control chart
32	32	34	34	Red cyan	000- 255	RGBW mode: 0-100% / CMY mode: 100-0%
–	–	35	35	Fine tune red, fine tune cyan	000- 255	RGBW mode: 0-100% / CMY mode: 100-0%
33	33	36	36	Green magenta	000- 255	RGBW mode: 0-100% / CMY mode: 100-0%
-	-	37	37	Fine tuning green fine tune magenta	000- 255	RGBW mode: 0-100% / CMY mode: 100-0%
34	34	38	38	Blue yellow	000- 255	RGBW mode: 0-100% / CMY mode: 100-0%
–	–	39	39	Light blue fine yellow	000- 255	RGBW mode: 0-100% / CMY mode: 100-0%

35	35	40	40	white	000- 255	RGBW mode: 0-100% / CMY mode: 100-0%
-	-	41	41	Fine-tun e the white	000- 255	RGBW mode: 0-100% / CMY mode: 100-0%
–	–	–	42	Tuning 1	000- 255	0-100%
–	–	–	43	Fine tuning dimming 1	000- 255	0-100%
–	36	42	44	Red, 1, cyan, 1	000- 255	RGBW mode: 0-100% / CMY mode: 100-0%
-	-	43	45	Fine tuning red 1 tuning cyan 1	000- 255	RGBW mode: 0-100% / CMY mode: 100-0%
–	37	44	46	Green 1 and magenta 1	000- 255	RGBW mode: 0-100% / CMY mode: 100-0%
-	-	45	47	Fine tuning green 1 tuning magenta 1	000- 255	RGBW mode: 0-100% / CMY mode: 100-0%
-	38	46	48	Blue 1 and yellow 1	000- 255	RGBW mode: 0-100% / CMY mode: 100-0%
-	-	47	49	Fine tune blue 1 fine tune yellow 1	000- 255	RGBW mode: 0-100% / CMY mode: 100-0%
-	39	48	50	White 1	000- 255	RGBW mode: 0-100% / CMY mode: 100-0%
–	–	49	51	Fine-tun e white 1	000- 255	RGBW mode: 0-100% / CMY mode: 100-0%
-	-	-	52	Tuning 2	000- 255	0-100%
–	–	–	53	Fine tuning dimming 2	000- 255	0-100%
-	40	50	54	Red, 2 in cyan, 2	000- 255	RGBW mode: 0-100% / CMY mode: 100-0%
-	-	51	55	Fine tune red 2 fine tune cyan 2	000- 255	RGBW mode: 0-100% / CMY mode: 100-0%
–	41	52	56	Green 2 and magenta 2	000- 255	RGBW mode: 0-100% / CMY mode: 100-0%
-	-	53	57	Fine tune green 2 fine tune magenta 2	000- 255	RGBW mode: 0-100% / CMY mode: 100-0%
–	42	54	58	Blue 2 and yellow	000- 255	RGBW mode: 0-100% / CMY

				2		mode: 100-0%
–	–	55	59	Fine tune blue 2 fine tune yellow 2	000- 255	RGBW mode: 0-100% / CMY mode: 100-0%
-	43	56	60	White 2	000- 255	RGBW mode: 0-100% / CMY mode: 100-0%
-	-	57	61	Fine-tun e white 2	000- 255	RGBW mode: 0-100% / CMY mode: 100-0%
-	-	-	62	Tuning 3	000- 255	0-100%
–	–	–	63	Fine tuning dimming 3	000- 255	0-100%
-	44	58	64	Red and 3 in cyan and 3	000- 255	RGBW mode: 0-100% / CMY mode: 100-0%
-	-	59	65	Fine tuning red 3 tuning cyan 3	000- 255	RGBW mode: 0-100% / CMY mode: 100-0%
–	45	60	66	Green 3 and magenta 3	000- 255	RGBW mode: 0-100% / CMY mode: 100-0%
–	–	61	67	Fine tune green 3 fine tune magenta 3	000- 255	RGBW mode: 0-100% / CMY mode: 100-0%
–	46	62	68	Blue 3 yellow 3	000- 255	RGBW mode: 0-100% / CMY mode: 100-0%
-	-	63	69	Fine tune blue 3 fine tune yellow 3	000- 255	RGBW mode: 0-100% / CMY mode: 100-0%
-	47	64	70	White 3	000- 255	RGBW mode: 0-100% / CMY mode: 100-0%
-	-	65	71	Fine-tun e white 3	000- 255	RGBW mode: 0-100% / CMY mode: 100-0%
-	-	-	72	Tuning 4	000- 255	0-100%
-	-	-	73	Fine tuning dimming 4	000- 255	0-100%
-	48	66	74	Red, 4 in cyan, 4	000- 255	RGBW mode: 0-100% / CMY mode: 100-0%
–	–	67	75	Fine tuning red 4 tuning cyan 4	000- 255	RGBW mode: 0-100% / CMY mode: 100-0%
-	49	68	76	Green 4 in magenta 4	000- 255	RGBW mode: 0-100% / CMY mode: 100-0%

-	-	69	77	Fine tune green 4 fine tune magenta 4	000- 255	RGBW mode: 0-100% / CMY mode: 100-0%
–	50	70	78	Blue 4 and yellow 4	000- 255	RGBW mode: 0-100% / CMY mode: 100-0%
-	-	71	79	Fine tune blue 4 fine tune yellow 4	000- 255	RGBW mode: 0-100% / CMY mode: 100-0%
–	51	72	80	White 4	000- 255	RGBW mode: 0-100% / CMY mode: 100-0%
–	–	73	81	Fine-tun e white 4	000- 255	RGBW mode: 0-100% / CMY mode: 100-0%
-	-	-	82	Tuning 5	000- 255	0-100%
–	–	–	83	Fine tuning dimming 5	000- 255	0-100%
-	52	74	84	Red, 5 in cyan, 5	000- 255	RGBW mode: 0-100% / CMY mode: 100-0%
–	–	75	85	Fine tuning red 5 tuning cyan 5	000- 255	RGBW mode: 0-100% / CMY mode: 100-0%
–	53	76	86	Green 5 in magenta 5	000- 255	RGBW mode: 0-100% / CMY mode: 100-0%
-	-	77	87	Fine tune green 5 fine tune magenta 5	000- 255	RGBW mode: 0-100% / CMY mode: 100-0%
–	54	78	88	Blue 5 and yellow 5	000- 255	RGBW mode: 0-100% / CMY mode: 100-0%
–	–	79	89	Fine tune blue 5 fine tune yellow 5	000- 255	RGBW mode: 0-100% / CMY mode: 100-0%
–	55	80	90	White 5	000- 255	RGBW mode: 0-100% / CMY mode: 100-0%
-	-	81	91	Fine-tun e white 5	000- 255	RGBW mode: 0-100% / CMY mode: 100-0%
–	–	–	92	Dim 6	000- 255	0-100%
-	-	-	93	Fine tuning dimming 6	000- 255	0-100%
–	56	82	94	Red 6 in cyan 6	000- 255	RGBW mode: 0-100% / CMY mode: 100-0%

–	–	83	95	Fine tune red 6 fine tune cyan 6	000- 255	RGBW mode: 0-100% / CMY mode: 100-0%
-	57	84	96	Green 6 in magenta 6	000- 255	RGBW mode: 0-100% / CMY mode: 100-0%
-	-	85	97	Fine tune green 6 fine tune magenta 6	000- 255	RGBW mode: 0-100% / CMY mode: 100-0%
-	58	86	98	Blue 6 and yellow 6	000- 255	RGBW mode: 0-100% / CMY mode: 100-0%
-	-	87	99	Fin tune e 6 fine blu yellow e tun e 6	000- 255	RGBW mode: 0-100% / CMY mode: 100-0%
–	59	88	100	White 6	000- 255	RGBW mode: 0-100% / CMY mode: 100-0%
–	–	89	101	Fine-tun e white 6	000- 255	RGBW mode: 0-100% / CMY mode: 100-0%

Y axis p lan table:

Y axis macro	000-004	not have
	005- 009	Y axis macro 1
	010-014	Y axis macro 2
	……	……
	250-254	Y axis macro 50
	255	Y axis macro 51

remarks:

When the Y axis macro takes effect, Y axis 1 is adjusted to adjust the starting position of the Y axis macro, Y axis 1 is adjusted to adjust the swing amp litude of the Y axis macro, and the Y axis motor speed is the Y axis macro speed (from slow to fast) The effective value of the Y-axis macro amp litude is 1-255

Color plan table:

Color macro	000	not have
	001- 002	White 2700K
	003- 004	White 3200K
	005- 006	White 4200K
	007- 008	White 5600K

	009- 010	White 8000K
	011	Blue
	012- 048	+ Green
	049	Cyan
	050- 086	-Blue
	087	Green
	088- 124	+ Red
	125	Yellow
	126- 162	-Green
	163	Red
	164- 200	+ Blue
	201	Magenta
	202- 238	-Red
	239	Blue
	240- 247	Color fade, fast to slow
	248-255	Color snap, fast to slow

Flash chart:

stroboflash	000-019	Off
	020-024	On
	025-064	Strobe, fast to slow
	065-069	On
	070-084	Strobe 100-0%, fast to slow
	085-089	on
	090-104	Strobe 0-100%,fast to slow
	105-109	On
	110-124	Random strobe, fast to slow
	125-129	On
	130-144	Random strobe 100-0%, fast to slow
	145-149	On
	150-164	Random strobe 0-100%, fast to slow
	165-169	On
	170-184	Pulse strobe, fast to slow
	185-189	On
	190-204	Random pulse strobe, fast to slow
	205-209	On
	210-224	Strobe 0-100-0%, fast to slow
	225-229	On
	230-244	Random pulse strobe, fast to slow
	245-255	On

control chart:

reset	000-054	not have
	056-060	Y-shaft motor reset (keep 5S effective)
	061-065	Zoom motor reset (keep 5S active)
	066-075	All reset (keep 5S effective)
	076-255	obligate

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.