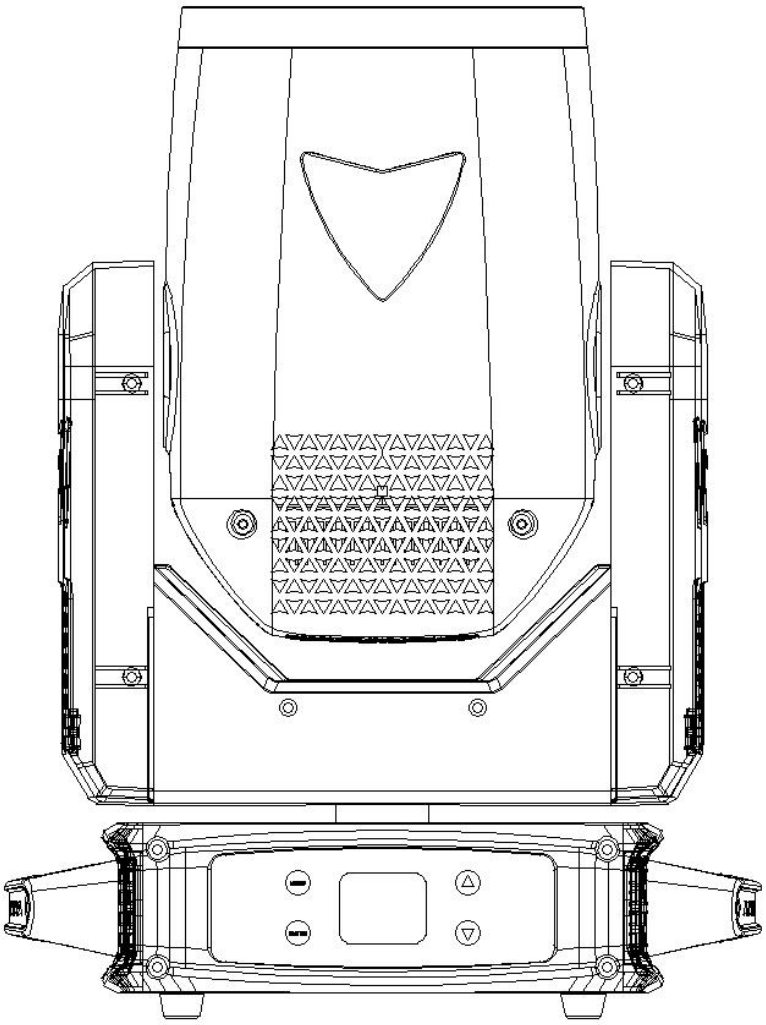
T918 Guardian



User Manual

1.Safety Instructions

Please read the instruction carefully which includes important information about the installation, usage and maintenance.

Please keep this User Guide for future consultation. If you sell the unit to another user, be sure that they also receive this instruction manual.

Important:

Damages caused by the disregard of this user manual are not subject to warranty. The dealer will not accept liability for any resulting defects or problems.

Unpack and check carefully to ensure that there is no transportation damage before using the unit.

This product is for indoor use only. Use only in a dry location.
DO install and operate by qualified operator.
DO NOT allow children to operate the fixture.
Use safety chain when fixing the unit. Handle the unit by carrying its base instead of head only.
The unit must be installed in a location with adequate ventilation, at least 50cm from adjacent surfaces.
Be sure that no ventilation slots is blocked, otherwise the unit will be overheated.
Before operation, ensure that you are connecting this product to the proper voltage in accordance with the specifications in this manual or on the product's specification label.
It's important to ground the yellow/green conductor to earth in order to avoid electric shock.
Minimum ambient temperature TA: 0℃. Maximum ambient temperature TA: 40℃. Do not operate this product at a lower or higher temperature.
DO NOT connect the device to any dimmer pack.

Avoid any flammable liquids, water or metal from entering the unit. Once it happens, cut off the mains power immediately.
DO NOT operate in a dirty or dusty environment. DO clean the fixture regularly.
DO NOT touch any wire during operation as there might be a hazard of electric shock.
Avoid entanglement of the power cord with other wires.
The minimum distance to objects/surface must be more than 1 meters.
Disconnect mains power before fuse/lamp replacement or servicing.

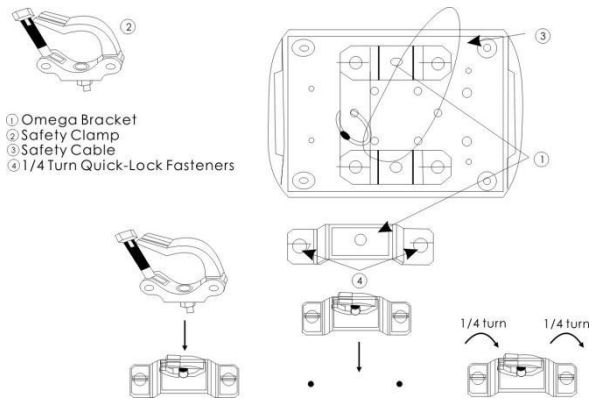
Replace fuse/lamp only with the same type.
In the event of serious operating problem, stop using the unit immediately.
Never turn on and off the unit time after time.
The housing, the lenses, or the ultraviolet filter must be replaced if they are visibly damaged.
DO NOT attempt to operate this unit if it becomes damaged. DO NOT attempt any repairs
yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center if needed.
Disconnect this product from its power source before servicing.
DO use the original packaging if the device is to be transported.
Avoid direct eye exposure to the light source while the product is on.
Never touch bulb with bare fingers, as it is very hot after using.
DO NOT operate this product if you see damage on the housing, shields, or cables. Have the damaged parts replaced by an authorized technician at once

Installation:
The fixture should be fixed on the clamp. Always ensure that the unit is firmly fixed to avoid vibration and slipping off during operation. Ensure that the trussing or area of installation must be able to hold 10 times the weight without any deformation. Always install a safety cable that can hold at least 12 times the weight of the fixture when installing.DO install and operate by qualified operator. It must be installed in a place where there is out of the reach of people.

2.INSTALLATIONS

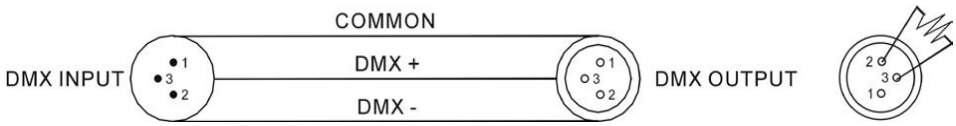
installations Note: In order to increase protection, please install the lamp on the sidewalk, outside the seating area, or an area where unauthorized persons may touch the lamp
Before installing the fixture on any surface, make sure that the installation area can bear the minimum point load above 10 points of the weight of the equipment. The installation of the fixing device must always be fixed with auxiliary safety accessories (such as a suitable safety rope)
Do not stand directly under the equipment when installing, removing, or servicing fixtures
From the ceiling or set on a flat surface (see the picture below). Ensure that this fixture is kept at least 0.5m (1.5 feet) away from any flammable materials (decorations, etc.)
Be sure to use and install the supplied safety rope to ensure safety and

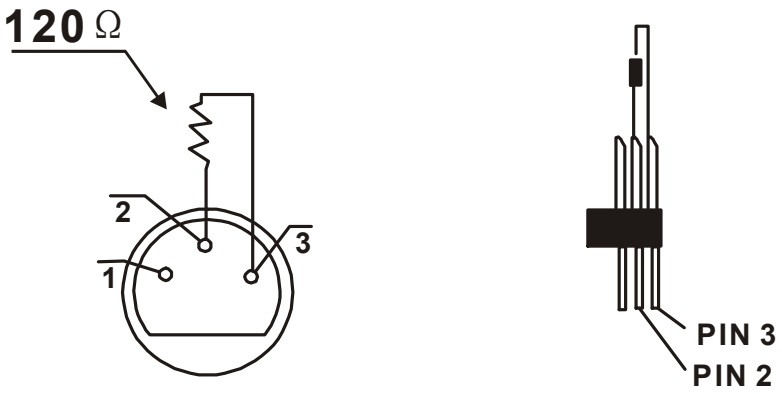
prevent accidental damage and/or injury in case the fixture is damaged
Installation point: Overhead installation requires a wealth of experience, including calculation of working load limits, in-depth understanding of the installation materials used, and regular safety inspections of all installation materials and fixtures. If you do not have these qualifications, please do not try to install it yourself. Improper installation can cause personal injury
Before connecting the main power cord to an appropriate wall outlet, make sure to complete all assembly and installation procedures
Lamp installation: LED shaking head provides a unique mounting bracket assembly, which integrates the bottom of the base and the fixing point of the safety cable into one unit (see the figure below). When installing the fixture to the truss, make sure to use the appropriate tools to fix it on the attached bracket, and use the M10 screw that passes through the center hole of the "bracket" to fix it. As an additional safety measure, make sure to use at least one safety cable integrated in the base assembly to connect at least one appropriately rated safety cable to the fixture.

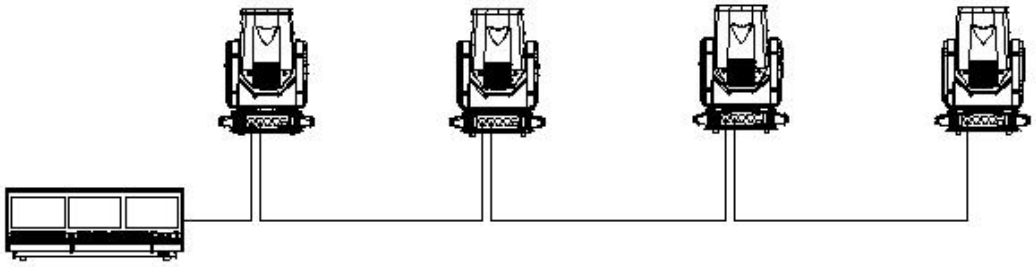


3. DMX-512 control connections

Connect the provided XLR cable to the female 3-pin XLR output of your controller and the other side to the male 3-pin XLR input of the moving head. You can chain multiple
Moving heads be connected together through serial linking. The cable needed should be two core, screened cable with XLR input and output connectors.
For installations where the DMX cable has to run a long distance or is in an electrically noisy environment, such as in a discotheque, it is recommended to use a DMX terminator. This helps in preventing corruption of the digital control signal by electrical noise. The DMX terminator is simply an XLR plug with a 120 Ω resistor connected between pins 2 and 3,which is then plugged into the output XLR socket of the last fixture in the chain. Please see illustrations below







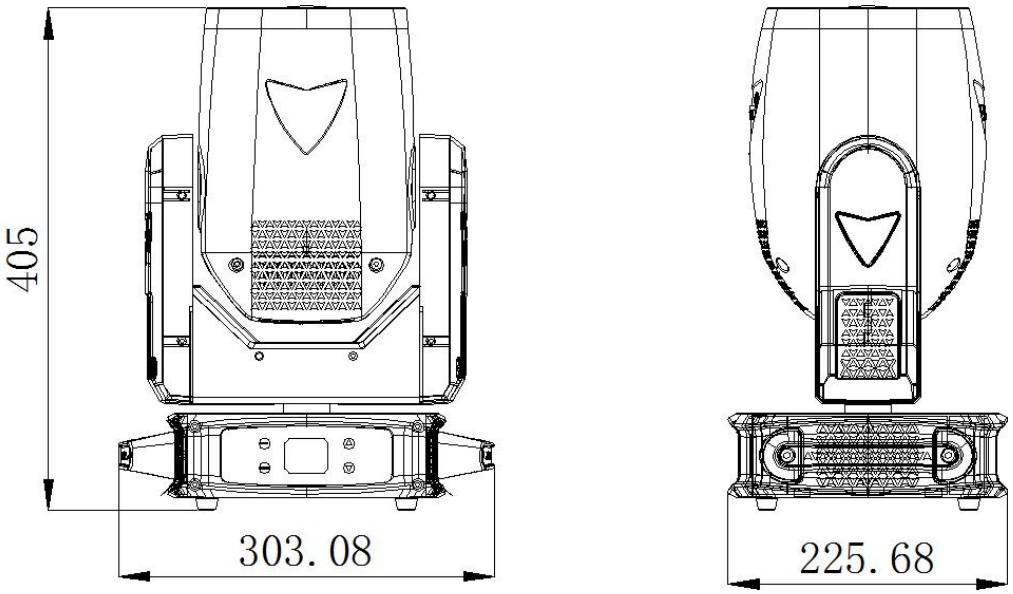
4.Address code setting

If you use a universal DMX controller to control the units, you have to set DMX address from 1 to 512 so that the units can receive DMX signal.

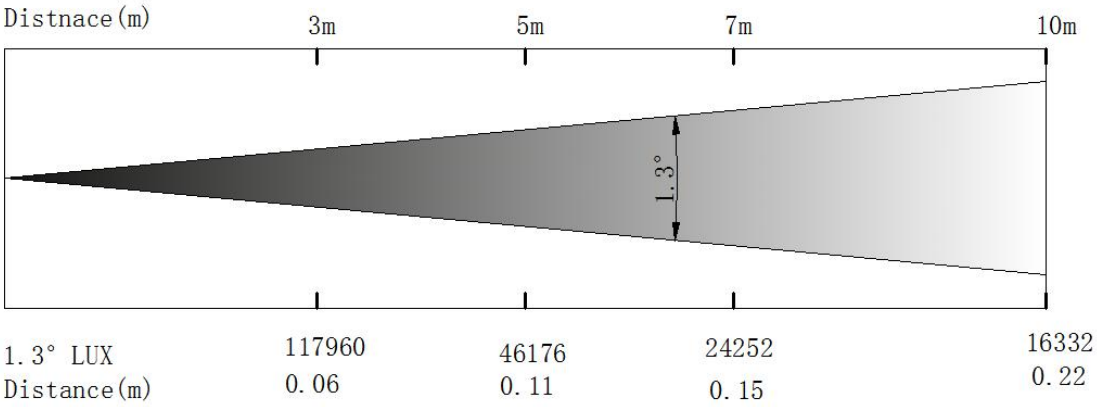
Press the MENU button to enter menu mode, select DMX Settings, press the ENTER button to confirm, use the UP/DOWN button to select DMX Address, press the ENTER button to confirm, the present address will blink in the display, use the UP/DOWN button to adjust the address from 001 to 512, press the ENTER button to store. Press the MENU button back to the last menu or let the unit idle 30 seconds to exit menu mode.Please refer to the following diagram to address your DMX512 channel for the first 4 units.

Channel MODE	UNIT1 ADDERSS	UNIT2 ADDERSS	UNIT3 ADDERSS	UNIT4 ADDERSS
17CH	1	22	43	64

5.Fixture size

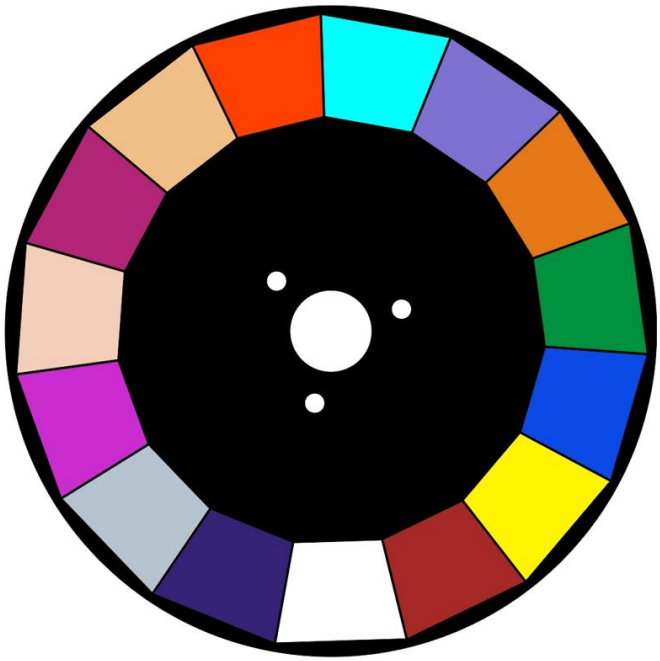


6.Illuminance chart:

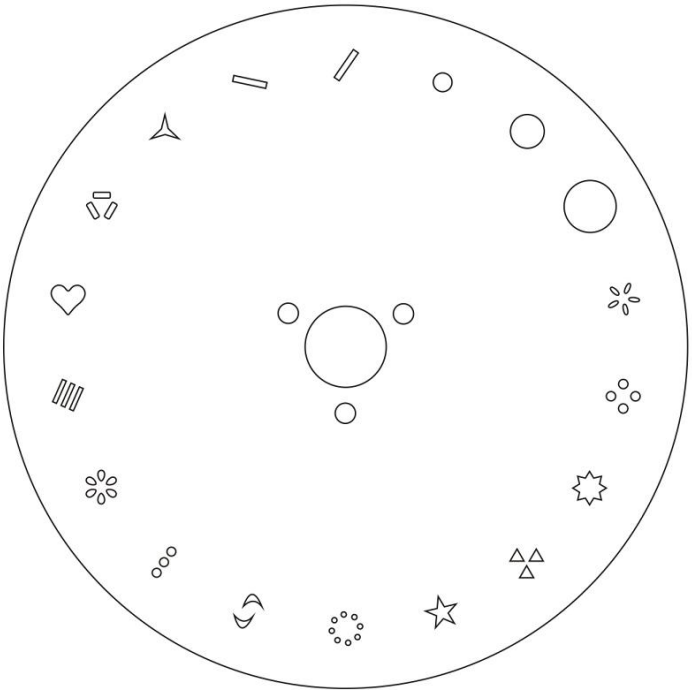


7. Effect Wheels

color wheel



Gobo wheel

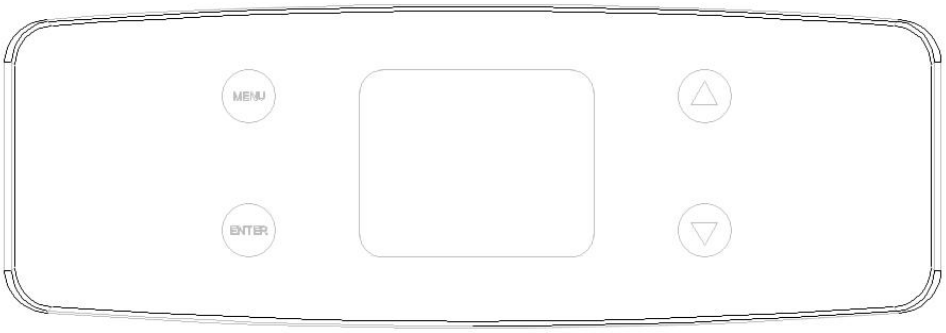


8.LED technical parameters

Input Voltage: 100-240V, 50/60Hz
Output Voltage: V1:28V(Master board+LED driver), V2:12V(cooling fan+Displ ay)
Power consumption: 110W
Power supply: 200W
Light source: 80W Osram LED Chip (13-15V,6A)
Light strip: 40x0.5W RGB5050LED
Color temperature: 8000K
Diameter of optic lens: 128mm
Beam angle: 1.3°
Color wheel: 1 color wheel, 14fixed colors plus white, two-way rainbow effect
Static gobo: 17 gobos plus 1 white circle
Prism: 8 prism,can be rotated in both directions
Frost filter: with smooth wash effect
DMX Channel: 21CH
Operate mode: DMX512, self-propelled, master/slave,Sound active, RDM
Fixture size: 303*226*405mm
Net weight: 10 KG(contains Folding clamp)

Features:
1. Electric focuing system with 0-100% smooth dimming
2. Overheating self-energy protection can extending lamp life
3.Three phase Motor with SY Brand (XY axis magnetic coding positioning is more accurate)
4. Sharp and clear beam effect
5.A variety of static and dynamic light circle effects
6. High quality LCD touch screen
7. Power in & Out connector,3 or 5pin XLR inout & output can optional
8. Folding clamp can optional
9. Housing material:PA6 Nylon(Solid,high temperature resistance up to 200° flame retardance)

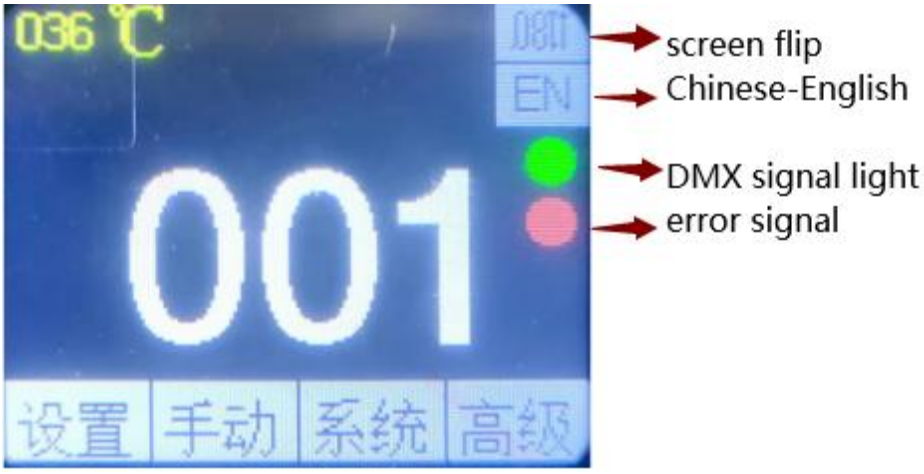
9.Touch key description



Up and down keys to select edit
Confirm key: execute function, start editing, exit editing
menu key: return to the previous interface

The following takes "Modify DMX Address Code" as an example to describe the use of buttons:
1. If it is not the main interface, press the menu key (one or more times) to return to the main interface
2. In the main interface, press the "Up" key or the "Down" key to select the "Settings" button
3. Press the "OK" button to enter the "Settings" interface
4. In the "Settings" interface, press the "Up" key or the "Down" key to select "DMX Address"
5. Press the "OK" key to enter the editing state
6. Press the "Up" key or "Down" key to modify the DMX address code
7. Press "OK" to exit the editing state

8. menu description



Main menu diagram

10.1set up

Option	Description	
operating mode	DMX	Slave state: receive DMX signal from console or host
	AUTO	Master status: self-propelled and send DMX signal to slave
	voice control	
DMX address	1~512	Press the "OK" key to enter the editing state. At this time, the hundreds digit is selected, and the "up" and "down" keys are pressed to change the address code. Press the "OK" key again to select ten edits. Press the "OK" key again to select the one digit editing. Press again to exit the editing state
Motor reset	close	
	open	Led reset
channel mode	Standard 21CH	Standard 21-channel mode
X reverse	close	
	open	
Y reversal	close	
	open	
XY swap	close	
	open	Swap the channels of the XY axes (including fine-tuning)
XY encoder	open	Use the encoder (optical coupler) to judge the out-of-step and automatically correct the position
	close	Correct position without encoder (optocoupler)
DMX signal	Keep	Continue to operate as it is
	clear	The motor returns and stops running
restore default settings		Press the "OK" button to see the confirmation dialog box, press the "OK" button again to restore the default settings

10.2MANU

Sync Channel Table {please see Channel Table}

10.3system

Option	Description	
DIS		Dashboard software version
MT		Motor board software version
system error		If the red ERR indicator is on, it means that the lamp is running incorrectly, and the details can be viewed from this sub-interface. After viewing, you can press the "Clear" button to clear the error record
total usage time		
This time of use		
temperature		Display the current temperature of the lamp bead

10.4system

Option	Description	
DIS		Dashboard software version
MT		Motor board software version
system error		If the red ERR indicator is on, it means that the lamp is running incorrectly, and the details can be viewed from this sub-interface. After viewing, you can press the "Clear" button to clear the error record
total usage time		
This time of use		
temperature		Display the current temperature of the lamp bead

Common error messages	illustrate
MT board connection failed	The motor board is not responding. There is a problem with the serial communication line connecting the display board and the motor board, or there is a problem with the motor board.
X axis reset failed	There is a problem with the X-axis photoelectric switch, or the X-axis motor or motor board
Y axis reset failed	There is a problem with the Y-axis photoelectric switch, or the Y-axis motor or motor board
X axis Hall error	X-axis Hall, or there is a problem with the motor board
Y axis Hall error	Y-axis Hall, or there is a problem with the motor board
Color wheel reset failed	The color wheel Hall, or the color wheel motor has a problem
Pattern disk reset failed	Gobo Hall, or gobo motor is faulty
Focus reset failed	Focusing Hall, or there is a problem with the focusing motor

11.Channel 21CH

CH	Function	Value	Effect
1	X	000-255	Horizontal 540 degree scan
2	X fine	000-255	Horizontal 1.2 degree fine-tuning
3	Y	000-255	Vertical 270 degree scan
4	Y fine	000-255	Vertical 1.2 degree fine-tuning
5	XY speed	000-255	Speed from fast to slow
6	Dimmer	000-255	from dark to light
7	Strobe	000-003 004-103 104-107 108-207 208-212 213-251 252-255	open Strobe from slow to fast open Pulse strobe from slow to fast open Random strobe from slow to fast open
8	color	000 - 004 005 - 009 010 - 014 015 - 019 020 - 024 025 - 029 030 - 034	white light white light + color 1 color 1 color 1+color 2 color 2 color 2+color 3 color 3

		035 - 039	color 3+color 4
		040 - 044	color 4
		045 - 049	color 4+color 5
		050 - 054	color 5
		055 - 059	color 5+color 6
		060 - 064	color 6
		065 - 069	color 6+color 7
		070 - 074	color 7
		075 - 079	color 7+color 8
		080 - 084	color 8
		085 - 089	color 8+color 9
		090 - 094	color 9
		095 - 099	color 9+color 10
		100 - 104	color 10
		105 - 109	Color 10 + Color 11
		110 - 114	color 11
		115 - 119	Color 11+Color 12
		120 - 124	color 12
		125 - 129	Color 12+Color 13
		130 - 134	color 13
		135 - 139	Color 13+Color 14
		140 - 144	color 14
		145 - 149	Color 14+ white light
		150 - 200	Reverse flow (from fast to slow)
		201 - 255	Forward flow (from slow to fast)
9	Gobo	000 - 004	Gobo1
		005 - 009	Gobo2
		010 - 014	Gobo3
		015 - 019	Gobo4
		020 - 024	Gobo5
		025 - 029	Gobo6
		030 - 034	Gobo7
		035 - 039	Gobo8
		040 - 044	Gobo9
		045 - 049	Gobo10
		050 - 054	Gobo11
		055 - 059	Gobo12
		060 - 064	Gobo13
		065 - 069	Gobo14
		070 - 074	Gobo15
		075 - 079	Gobo16
		080 - 084	Gobo17
		085 - 089	Gobo18
		090 - 094	Gobo2shock (from slow to fast)

		095 - 099 100 - 104 105 - 109 110 - 114 115 - 119 120 - 124 125 - 129 130 - 134 135 - 139 140 - 144 145 - 149 150 - 154 155 - 159 160 - 164 165 - 169 170 - 174 175 - 215 216 - 255	Gobo3shock (from slow to fast) Gobo4shock (from slow to fast) Gobo5shock (from slow to fast) Gobo6shock (from slow to fast) Gobo7shock (from slow to fast) Gobo8shock (from slow to fast) Gobo9shock (from slow to fast) Gobo10shock (from slow to fast) Gobo11shock (from slow to fast) Gobo12shock (from slow to fast) Gobo13shock (from slow to fast) Gobo14shock (from slow to fast) Gobo15shock (from slow to fast) Gobo16shock (from slow to fast) Gobo17shock (from slow to fast) Gobo18shock (from slow to fast)） Forward flow (from fast to slow) Reverse flow (slow to fast)
10	Frost	000-127 128-255	no frost cut
11	Prism	000-127 128-255	Prism pops up Prism cut
12	Prism rotation	000-127 128-191 192-255	Prism angle adjustment Prism rotating forward flow Prism rotation reverse flow
13	focus	000-255	Pattern clarity from far to near
14	Light ring strobe	000 - 255	Strobe from slow to fast
15	red	000 - 255	dark to light
16	green	000 - 255	dark to light
17	blue	000 - 255	dark to light
18	color macro	000 - 255	
19	Effect	000 - 255	
20	effect speed	000 - 255	speed from slow to fast
21	Reset	000-127 128-255	None, there is no action for the area without the specified function Reset all motors

12.Common malfunctions

For some common faults, corresponding solutions are proposed. Any

problems that cannot be solved should be handled by professionals. Disconnect the power supply before servicing the light.

After the lamp is reset normally, it does not accept the control of the console
Check whether the digital start address value and function options of the lamps are correct;
Check whether the connection of the communication control line is correct, the communication line is too long or has been interrupted;
Check whether the control equipment is invalid, and check whether the signal amplifier connected in series is invalid;
Check whether the communication line is too long or other devices interfere with each other;
Optimize wiring, shorten the length of control signal lines, separate high-voltage and low-voltage lines;
Add a signal amplifier;
The signal line adopts high-quality shielded twisted pair;
Connect a signal terminating resistor (120 ohms) at the end of the fixture.

Lighting does not start
Check whether the parameters of the power supply are consistent with the lamps;
Check that the lamp has poor contact due to extrusion deformation, vibration of internal parts, moisture and other reasons during long-distance transportation.
or fall off.
Please check whether the wire product connector inside the lamp is off or loose.
Check whether the electronic components of lamps (such as electronic transformers, PCB boards, motor control boards, etc.) are loose, short-circuited and burned out.

When working, the X-axis or Y-axis of the lamp does not move properly
Check one by one according to the previous step;
Check whether the transmission belt corresponding to the X and Y axis directions in the lamp is off and broken;
Check whether the data feedback receiver (optical coupler) corresponding to the X and Y directions in the lamp is damaged;
Reboot to reset once.