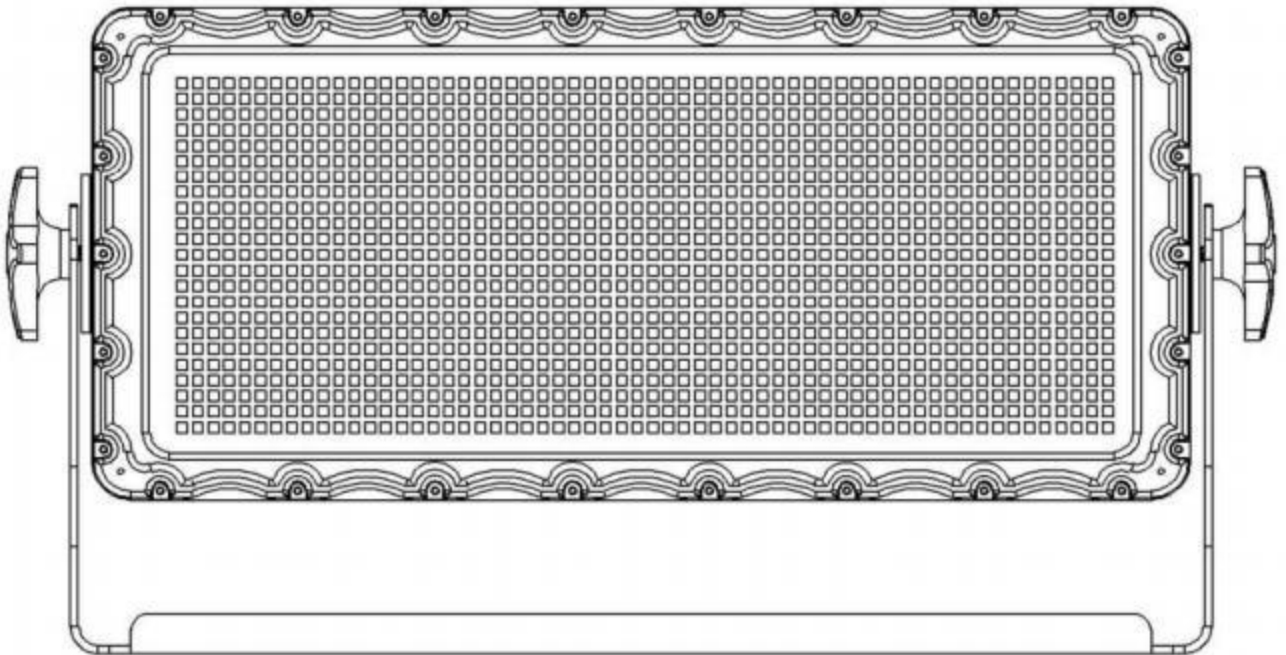


ST80G

User Manual



prompt

Please read this safety rule carefully before use.

After the equipment has been transported to the destination of use, please carefully open the package and take out the equipment. If you find any defects, you should immediately contact the shipping company and complain according to the defect. Confirm that this equipment is intact when it leaves the factory.

Please check whether the received equipment matches the goods registered in the freight bill, and whether the goods registered in the freight bill match

The goods you ordered are consistent, if not, please contact your supplier immediately.

Overview

This lamp is a professional lighting equipment designed for indoor and outdoor performances, architectural lighting, etc. It can be used as a strobe light or as a floodlight. The wires marked as ground must be grounded.

Do not open the casing while this equipment is in operation to avoid electric shock.

Obvious defects are found in the glass lens, and the lens should be replaced immediately and its power should be reduced, such as deep cracks or scratches. The luminous body should be replaced immediately if it is damaged or distorted after high heat. When it is necessary to conduct inspection, maintenance, repair and other operations inside the lamp, it should be handed over to professionals.

In the event of an accident, unplug the power cord before opening the lamp housing.

The user should operate within the scope of the specified use of this equipment and check whether the wiring of the equipment is correctly connected. Please don't place the lamp in a changeable and harsh environment.

The manufacturer is not liable for damage caused by unauthorized replacement of other types of light sources.

This lamp is a kind of professional equipment. Although the improved design is simple and convenient to operate, it still needs professional installation and maintenance.

Point

The power cord and other connecting devices are very important to the equipment, and their reasonable arrangement leads to the safe and convenient use of the equipment.

When unplugging or plugging in the power supply, you must hold the plug and pull it out. Do not pull the power cord directly.

Do not use the power cord in harsh environments. It should be tested before installation, and periodic testing should be maintained after installation. Do not tie the power cord and other signal lines together to prevent confusion.

Power connection

This lamp adapts to the normal voltage of 230V. And with 1.2M silicone wire (1.5 square). For the safety of users, be sure to keep the ground wire (yellow-green) grounded.

ATTENTION:



LETHAL VOLTAGE PRESENT INSIDE

First of all, thank you for choosing our company's product. Please read this instruction manual carefully and completely, and keep it properly for reference during use. This manual contains important information about the installation and use of this product. Please strictly follow these related instructions during installation and use.

The lamp is made of die-cast aluminum shells combined with each other, beautiful in appearance, smooth and strong, which fully reflects the characteristics of modern lighting products. The products are designed and produced according to strict standards and fully comply with the international standard DMX512 protocol. They can be controlled by a single unit or linked to each other. They are suitable for large-scale theatrical performances, indoor and outdoor activities, architectural landscape lighting and other places.

Benchengjie lamps use high-precision accessories. When you receive the product, please take care of it and check whether the product may be damaged due to transportation. And check the following accessories:

1. Lamps-1 PCS
2. Power cord — 1PCS
3. Signal line — 1PCS
4. Instructions — 1 PCS

This product is an effect strobe light.

If the product has gone through a large temperature difference (for example, after transportation), do not start the product immediately

The product will be damaged due to thermal expansion and contraction. Please wait until the device reaches normal room temperature before starting the product.

Pay attention to shocks. Avoid strong collisions during product installation.

Please do not lift the entire product by the lamp cap, because the mechanical properties of the equipment may be damaged.

When choosing an installation location, make sure that the product is not exposed to excessive heat, humidity or dust. Please try not to put any wires on the ground, and do a good job of waterproofing, otherwise you may suffer the danger of electric shock.

Before installing the product, make sure that the installation point is safe.

If you need to hang the product, please tie the product with a safety rope, and check whether all the screws are correct during installation

Please make sure the glass is in good condition. When the glass is damaged or scratched, please replace the glass.

It is recommended that technicians familiar with this product operate this product. Non-technical personnel are forbidden to operate this equipment, because many losses are the result of non-professional operation.

Please keep the packing materials properly in case you need to carry out the second transportation.

If there is no guidance from the manufacturer or distributor, please do not modify the product without authorization.

Any equipment failure caused by the operation and use of this equipment not in accordance with the provisions of the manual is not covered by the warranty. And any damage caused by

short circuit, injury, electric shock, ultraviolet rays, etc. caused by this is not covered by the warranty.

4. Product hanging and installation

Note: For more safety, please hang and install this product away from aisles, seating areas, or areas within reach of people.

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

The product installation must have double protection devices, such as safety ropes.

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

Features

The lamp beads of this product adopt SMD5050 0.5W high-brightness lamp beads, with full color, pure color mixing, high brightness, long life, low light decay, no flicker, and can be independently controlled in sections. Built-in 59 effect programs, built-in 60 graphics, with voice control auto-propelled mode; the voice control effect is very good, up to 10KHz dimming refresh PWM frequency, camera shooting without flicker.

The wire adopts high temperature resistant and antifreeze wire, which will not become dust after a period of time.

The lamp shell adopts the most abundant aluminum material and die-cast aluminum shell on the market, so that the whole lamp has better heat dissipation conditions, more resistant to fall, and will not be as easily deformed and broken as other lamps.

The electronic components of the power supply and the main board are all domestic well-known electronic components, thus ensuring the core quality of the whole lamp and greatly reducing the failure rate

technical parameter

Input voltage: AC110-240V 50 / 60Hz

LED light source: 1120 RGB three-in-one 0.5W 5050 LED high-brightness lamp beads

Power: 560W

Channel mode: 10/87/240/247CH

Control mode: DMX512, master/slave, self-propelled, voice control

Dimming mode: linear dimming

Projection angle: 120°

In DMX512 mode, it can be divided into 80 segments to independently control RGB single color effect

Waterproof rating: IP65

NW: 13.2KG

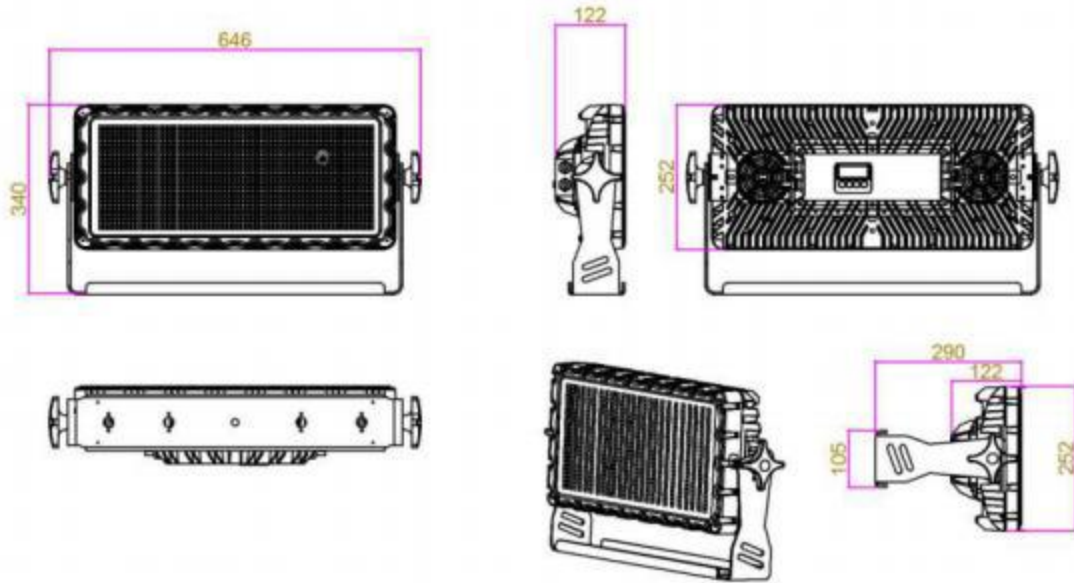
Lighting size: 64x12x34cm

Features: Built-in 59 rich effect programs, built-in 60 graphics (numbers, English letters and symbols, etc.)

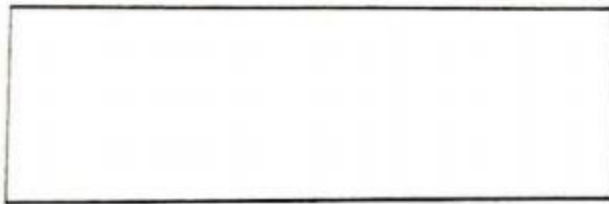
Can be divided into 80 sections to independently control RGB three colors, that is, strobe light, can also be used as a flood light, large projection area, long distance, high brightness,

self-propelled mode with sound control effect, sound control effect is very good, up to 10KHz adjustment Light refreshing PWM frequency, no flicker in camera shooting

Dimensions

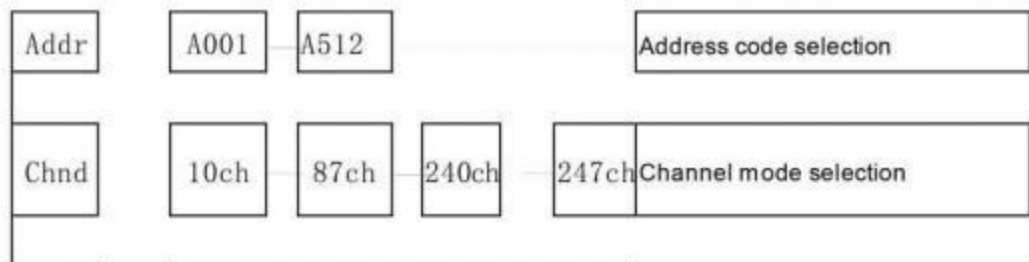


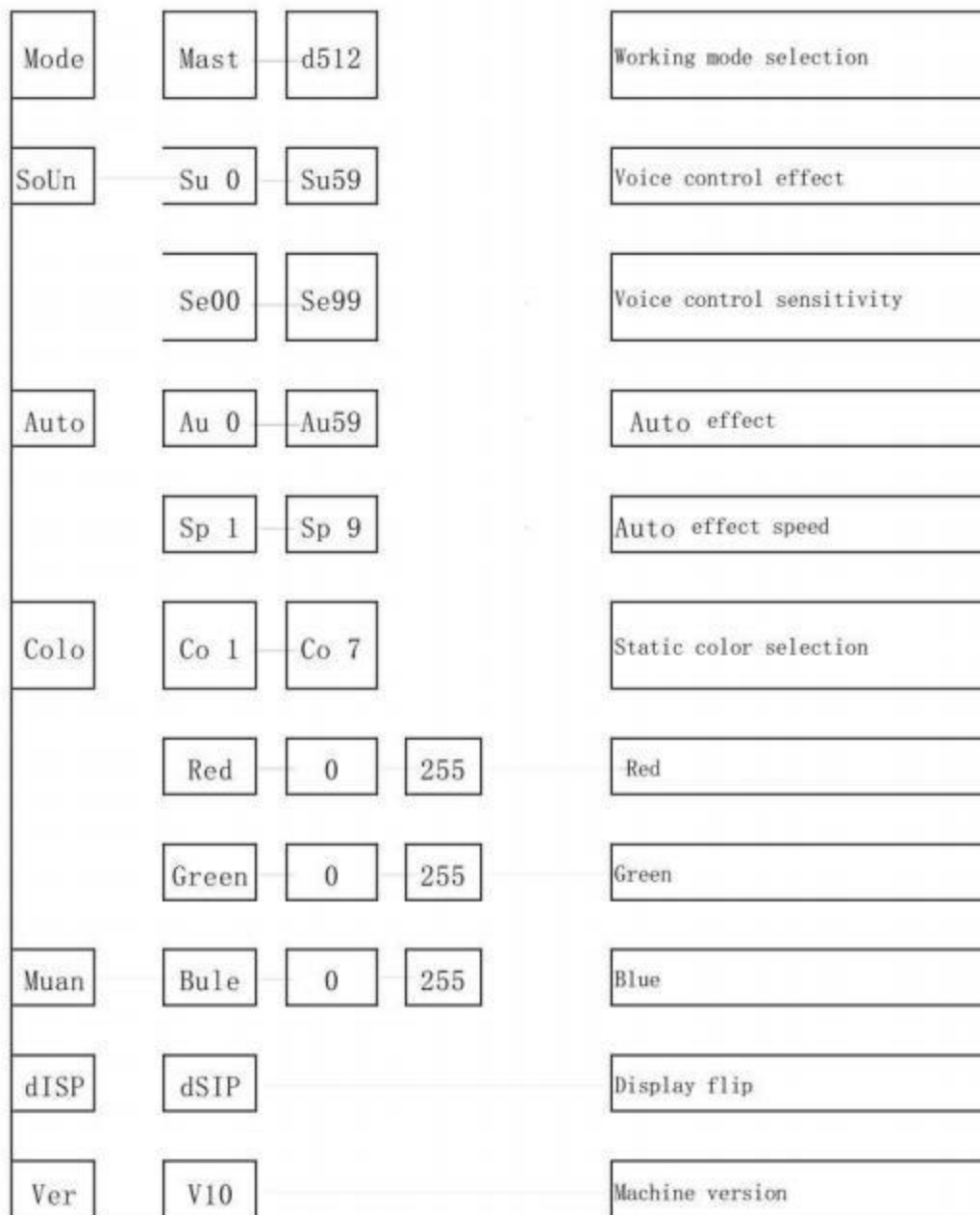
Menu operation instructions



A B C D

- A. MENU
- B. DOWN
- C. UP
- D. ENTER





Channel

10 channels		
Channel	Value	Function
1	000-255	All dimmer 0--100%
2	000-255	strobe-5050
3	000-255	Dimmer red-5050 0-100%
4	000-255	Dimmer green-5050 0-100%
5	000-255	Dimmer blue-5050 0-100%
6	000-007	No function
	008-12	Color chase 1
	13-16	Color chase 2

	227-247	Color chase 59
	248-255	sound controlled strobe
7	000-007	No function
	008-12	Pattern 1
	13-16	Pattern 2

	227-247	Pattern 59
	248-255	Pattern 60
	8	000-255
9	000-255	Run Background Color
10	000-255	Speed control slow-fast

87 channels		
Channel	Value	Function
1	000-255	All dimmer 0--100%
2	000-255	strobe-5050
3	0-255	Color 1
4	0-255	Color 2
5	0-255	Color 3
6	0-255	Color 4
7	0-255	Color 5
8	0-255	Color 6
9	0-255	Color 7
10	0-255	Color 8
11	0-255	Color 9
.....
.....
82	0-255	Color 80
83	000-007	No function
	008-12	Color chase 1
	13-16	Color chase 2

	227-247	Color chase 59
	248-255	sound controlled strobe
84	000-007	No function
	008-12	Pattern 1
	13-16	Pattern 2

	227-247	Pattern 59
	248-255	Pattern 60
85	000-255	Run Color

86	000-255	Run Background Color
87	000-255	Speed control slow-fast

240channels		
Channel	Value	Function
1	0-255	Red 1 0-100%
2	0-255	Green 1 0-100%
3	0-255	Blue 1 0-100%
4	0-255	Red 2 0-100%
5	0-255	Green 2 0-100%
6	0-255	Blue 2 0-100%
7	0-255	Red 3 0-100%
8	0-255	Green 3 0-100%
9	0-255	Blue 3 0-100%
10	0-255	
11	0-255	
...
...
...
238	0-255	Red 80-100%
239		Green 80-100%
240		Blue 80-100%

247 channels		
Channel	Value	Function
1	000-255	All dimmer 0--100%
2	000-255	strobe-5050
3	0-255	Red 1 0-100%
4	0-255	Green 1 0-100%
5	0-255	Blue 1 0-100%
6	0-255	Red 2 0-100%
7	0-255	Green 2 0-100%
8	0-255	Blue 2 0-100%
9	0-255	Red 3 0-100%
10	0-255	Green 3 0-100%
11	0-255	Blue 3 0-100%
...
...
...
240	0-255	Red 36 0-100%

241	0-255	Green 36 0-100%
242	0-255	Blue 36 0-100%
243	000-007	No function
	008-12	Color chase 1
	13-16	Color chase 2

	227-247	Color chase 59
	248-255	sound controlled strobe
244	000-007	No function
	008-12	Pattern 1
	13-16	Pattern 2

	227-247	Pattern 59
	248-255	Pattern 60
245	000-255	Run Color
246	000-255	Run Background Color
247	000-255	Speed control slow-fast

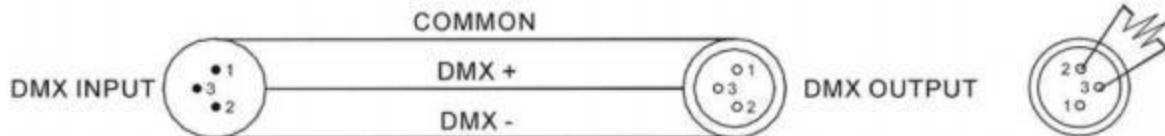
10/87/247CH Running background color 0-255 value

Color	0-15	turn off
	16-31	Color1
	32-47	Color2
	48-63	Color3
	64-79	Color4
	80-95	Color5
	96-111	Color6
	112-127	Color7
	128-143	Color8
	144-159	Color9
	160-175	Color10
	176-191	Color11
	192-207	Color12
	208-255	Color13

In the power-on state, after multiple machines are connected, if there is no console, it will automatically recognize the master-slave effect, operate one of the devices, and the other devices will follow the host to run the program synchronously. After the console is connected, if the console signal is received, it will automatically recognize that the console signal becomes DMX512 mode, and the signal indicator will flash

DMX connection

DMX512 is widely used in lamp control, and can control up to 512 channels



On the last luminaire, a terminator is required for the DMX signal line. Solder a 120 Ω , 1/4W resistor between pin2 and pin3, install it into the 3-pin XLR plug and plug it into the DMX output port of the last lamp.

Use the XLR signal cable to connect the lamp, one end to the output port of the lamp, and the other end to the output port of the next lamp. The XLR signal cable can only be used in series, not parallel. DMX512 signal transmission speed is very fast. Damage to the signal line, weak welding, poor contact, etc., will affect signal transmission and cause the system to shut down.

When the power supply of a certain lamp is cut off, the connection of DMX output and input is bypassed, so that the connection of DMX line can be maintained.

Each lamp needs an address code, which can receive the information sent by the console, ranging from 0 to 512. The terminal of the system needs to be equipped with a terminator to reduce signal transmission errors.

DMX address code setting

When using a universal DMX console to control a lamp, please set the start address code (1 ~ 512) for the lamp first, so that the lamp can receive DMX signals.

Press the MENU button until the DMX address is displayed on the screen, press the ENTER button, and use the DOWN /UP button to change the DMX512 address. Press the ENTER button until the display stops flashing or it is automatically saved after one minute.

To return to the main menu, press the MENU button.

Safety introduction and product maintenance

1. The power connection must be made by professionals.
2. Make sure that the use voltage is not higher or lower than the specified value in the instruction manual.
3. Confirm that the power cord is not cut or damaged by a sharp blade.
4. Be sure to disconnect the power supply when the lamp is not in use or before cleaning.
5. Only the plug is allowed to connect the power cord. When pulling out the plug, please do not pull the power cord forcibly.
6. Be careful when installing the lamps and avoid touching the bare wires, otherwise you will suffer a fatal electric shock.
7. Please do not look directly at the light source when the lamp is in use, otherwise your eyes will be hurt.
8. When choosing the installation location, please ensure that the lamp is not exposed to extreme heat, humidity or dust. The distance between the lamp and the illuminated object must exceed 0.5 meters. Make sure that there are no flammable and explosive materials within 0.5 meters.
9. Please use proper and safe wires to connect the lamps.
10. Please operate after familiarizing with the function of the lamp. Most of the damage to the lamps is caused by improper operation, so non-professionals are not allowed to operate the lamps. Do not shake the lamp at will, and do not operate it roughly.
11. Please do not modify the lamp at will. Doing so may cause short circuit, burning, electric shock, etc., and cause malfunction and damage of the lamp. The manufacturer does not provide warranty