



Shenzhen Suntech Co.,Ltd

Product specification

Item No: ST-XBL1903-12

Item Type: 3D Pixel Light

Edition Number: A/1

Effective Date: 2019.08

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Introduction :

ShenZhen Suntech CO.,Ltd.is a LED high-tech enterprise specializing in R&D, production, sales and service of LED products. It is currently the domestic LED secondary packaging point light source, 3D pixel light, soft and hard light strip, various LED lights. One of the largest manufacturers of LED products such as festivals and building lighting projects, with its own research and development of advertising light source series and controller product series.

We are experienced after 8 years development, the engineer team has successfully developed various different programmable products, such as APA102 WS2813 SK6812 WS2801, LPD8806, WS2811, WS2812B, , DMX512 smart led strip that are widely applied in home decoration, garden landscape, stadiums, exhibition hall, exhibition hall, hotel, high-grade office buildings, upscale clubs etc.. Products are exported to America, Europe, Middle east, and other market.

Picture:



Features:

- ◎ Made of imported PC material, fireproof, UV resistant, yellowing resistant
 - ◎ Imported brand LED chip, high quality assurance
 - ◎ SD card controller playback pre-design Single string pixel,easy to install and disassemble
 - ◎ 360 ° illumination angle, even light mixing, the lighting effect is distinctive.
 - ◎ It can be used to connect images and texts, images, etc. in real time with the controller and computer.
- The product supports the standard
- ◎ DMX512 communication protocol and can be controlled by the standard DMX console.

Application Range:

Widely used in holidays and celebrations, technology exhibitions, lighting art, music and art can sound control 3D effects, stage stereo lights, SD card controller playback and other effects.

Picture	Name	Specification	Remarks
	T shape wire	58*37*16mm	Optional accessories
	Crystal ball	3X150MM	Optional accessories

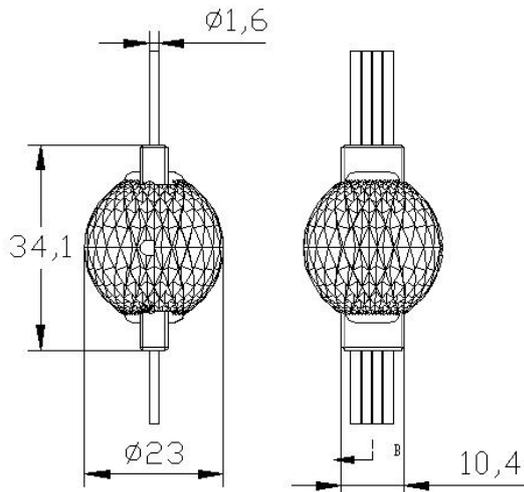
Product Parameters:

Item No:	ST-XBL1903-12
LED Light Source:	3535 High Brightness RGB
Light Sources QTY:	2pcs
Color Range:	16.77 million RGB composite colors
Color Resolution:	3x8bit
Beam Angle:	360 degree
Lamp Luminous Flux:	16 LM
Lighting Effect:	22 LM/W
Center Spacing:	60mm (Customized ≥ 50 MM)
Lamp Body Material:	PVC Rubber
QTY:	20PCS/Chain (Customized)
Light Size:	ϕ 23X34.1mm
Lamp Weight:	3.5g
Certification:	CE, RoHS
IP Rating:	IP65
ANTI-UV level:	4 Level
Working Temperature:	-25~+45°C
Storage Temperature:	-40~+80°C
Working Condition:	Indoor/Outdoor
Remarks:	Standard parameters allow for a range of errors

Electrical Parameter:

Voltage:	DC12V
Power:	0.72W
IC Type:	512 single line
Control Method:	Serial control, online or offline
Recommended Power Supply:	DC12V 400W Ripple 100mV

Dimension:

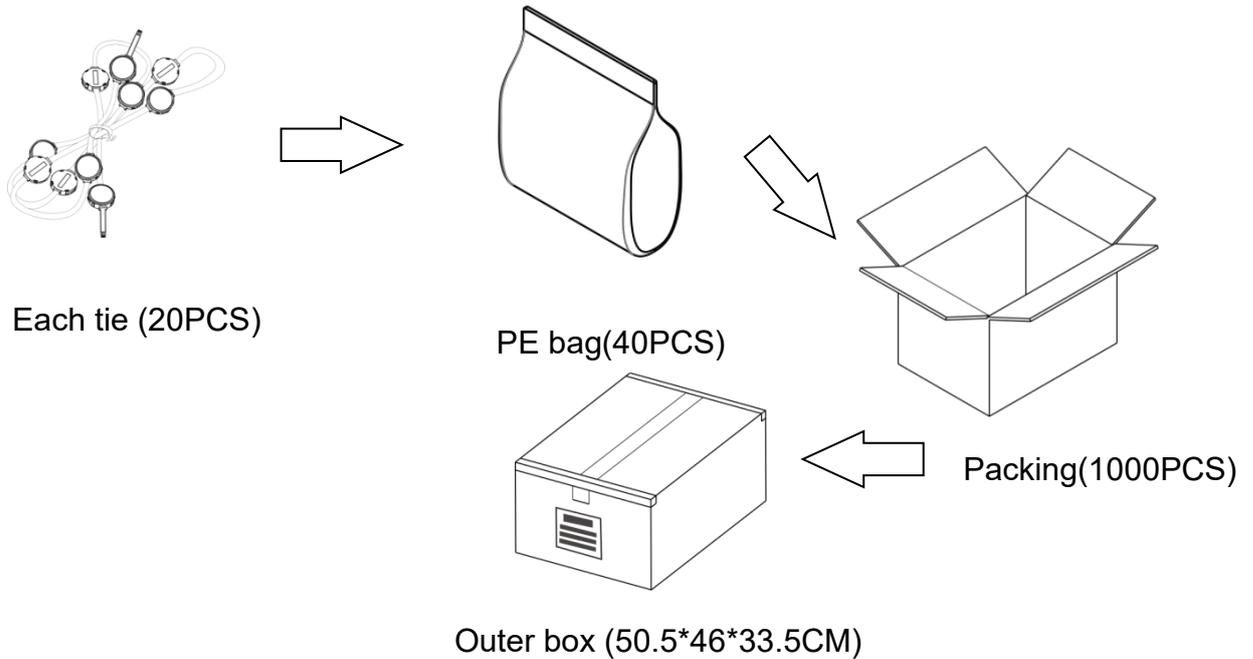


Packaging Information :

1.Packaging material

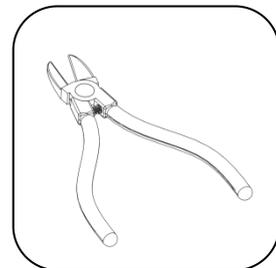
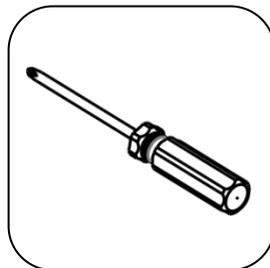
Name	Description	Quantity	Weight of no glue	Glue Weight	Remarks
Each	20pcs/tie	20pcs	0.16Kg	0.21KG	10CM
Electrostatic Bag	345*250mm	40pcs	0.32Kg	0.42KG	
Box	505*460*335mm	1000pcs	9.5 Kg	11.5KG	

2. The outer and side wheat of each carton are affixed to the outer box;Label each bag of PE bags;Product label on each product;
3. The shipping container is sealed and delivered, and it is handled with care. The product name, quantity and other information are marked on the packing box;
4. Storage requirements: moisture, dust, pressure, fall, acid and alkali, avoid direct sunlight and condensation;
5. Storage period: 1 year (after the deadline, it must be re-examined (electrical performance) before it can be used again).



Installation:

1.Installation tools

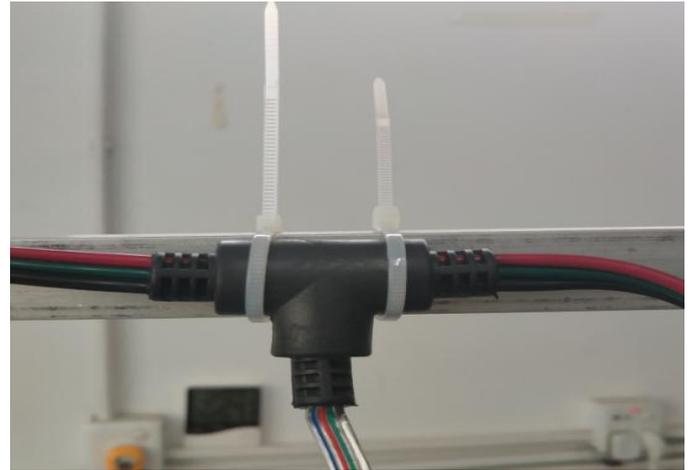


2. Aluminum tank installation method recommendations:

Fix the T-line with the cable tie. The installation suggestions are as follows:

1. Find the T-line labeling end, that is the input side, and start wiring according to the construction wiring diagram from the

2. Tie the T-shaped connectors at both ends. After the tie well, cut off the excess part with the cutting pliers. The cutting position is about 1CM more than the lock.



3.

- ①、 Male and female connector arrow pair arrow
- ②、 One of the male and female connector is notched to the other connector

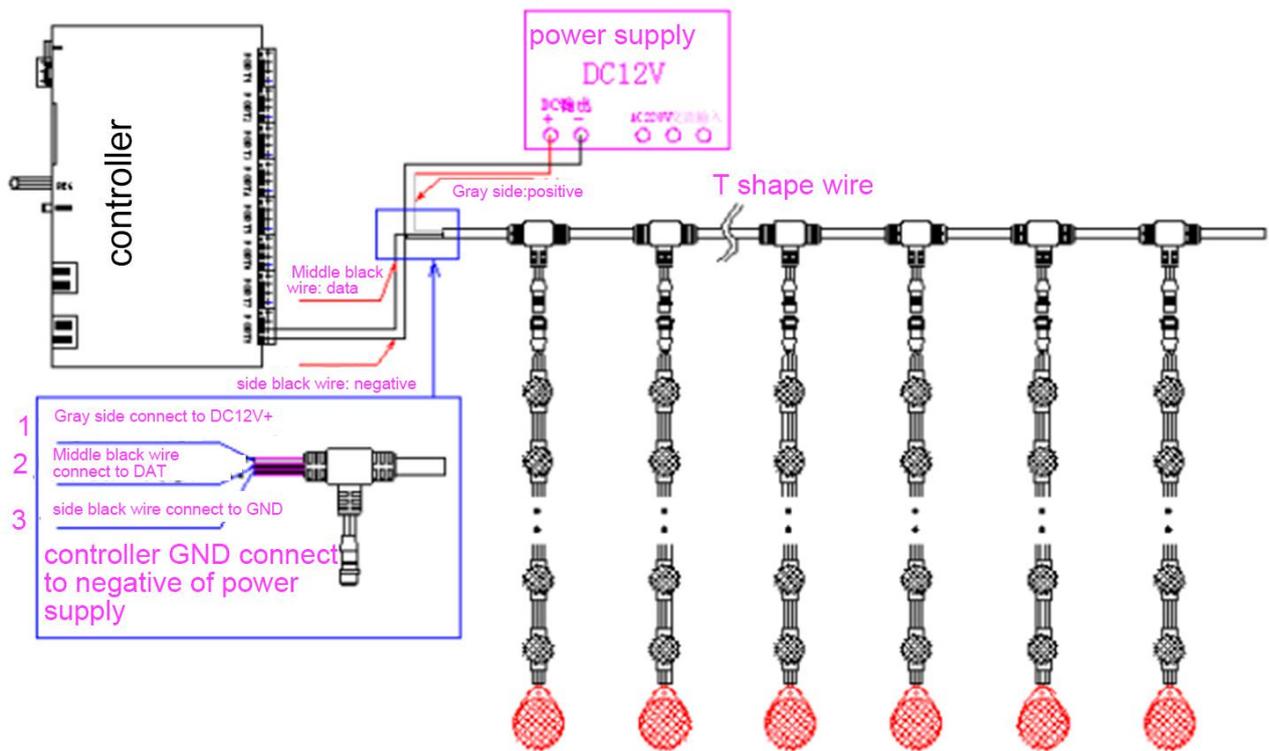


4.Tighten the nut



5.After installation, connect the main power line and signal line according to the clearness of the site.

Wiring diagram:



Installation Caution :

- 1.The lighting should be a professional installation, the installation of non-powered operation, do not pull the cable or allow the cable force during installation.
 - 2.The mounting position of the lamp should be non-corrosive, explosive and flammable media or dust,lamps should avoid strenuous vibration and shock.
 - 3.Lighting fixtures can only be applied to identify the type of power, otherwise it would cause light damage. As used in this subsection applies constant pressure lamps 12V switching power supply,switching power supply output to the lamp power supply division multiplexing, each power supply line is at least 2.5 m GB multi-strand copper wire.
 4. Lighting installation should be handled with care, the installation location should be strong, to be installed securely. Regularly check the installation of lamps, ensure that the circuit without insulation or bad wiring weak.

.Lighting wiring to securely connect the lamp power supply line can not overload, current supply lines can not exceed the carrying capacity by line. Cable docking should ensure contact with a solid, well-insulated and waterproof treatment!
 - 5.Lamps can only be defined by the color line wiring regulations, otherwise it would cause light damage.
For example, this luminaire line order:

A:T shape wire: Gray side: DC12V positive, Middle black wire:DAT, side black wire: negative.
B.4P connector wire: First red wire: DC12V positive, Second transparent wire: DAT IN, Third transparent wire:DAT OUT, Fourth transparent wire:Negative of power supply.
- Cable between the lamp and the lamp if damaged, must be used to replace the same type and specifications of the wire, and the need for professionals to operate, in order to avoid danger.
6. If you use more than one power supply, can not exist in parallel across multiple switching Power supply , so as to avoid damage to the switching power supply. High voltage input switching power supply should be connected to the corresponding switch leakage protection, strengthen security.
 - 7.When the lighting installation, the installation gap projector and not less than 2mm, the Maximum line spacing should be less than 2mm.

8. Installation and commissioning, such as partial lamp is not lit, check:

- A.The power supply is working properly
- B.power supply voltage is correct
- C.polarity reversal No, no open-joint connection.!

9. Installation and commissioning,if the effect is not in accordance with the actual requirements,check:

- A.1.Is the controller working properly
- B.SD Card read Card is normal
- C.Whether the connection mode is consistent with the order of the wiring diagram

10.Installation and commissioning,If the individual or part of the lamp changes will be jitter and other abnormal,check:

- A.Whether the controller and lamp are co-negative and well connected
- B.The signal connection between the controller and the lamp or between the lamp and the lamp Exceeds 3 metres
- C.Check that the power supply meets the requirements and that the ripple is within the required range
- D.Flicker or jitter position, please check the signal connection from the input part. There may be a bad contact.

11.Installation and commissioning, such as color mixing occurs when there is color, please check:

the power output to the lamp power supply line meets the requirements, at least 2.5 m multi-strand copper wire. And the output from the power supply to the lamp to average multiple to light, evenly arranged!

12.Installation and commissioning, configuring power, lighting and power supply for a long time And reliably, please be configured by 80% of actual power supply, such as 400W power supply, $400 \times 80\% = 320W$ 320W Press to configure the lamp power.

Statement:

- ◎ For the specific installation and precautions of the product, please refer to the product specification.
- ◎ The data given in this specification is based on standard products. Actual shipments may vary. Please refer to the actual product.
- ◎ All product drawings in this specification are schematic diagrams. Actual shipments may vary. Please refer to the actual product.
- ◎ This product is subject to change without notice.
- ◎ The final interpretation of this specification belongs to Shenzhen Suntech Co.,LTD.