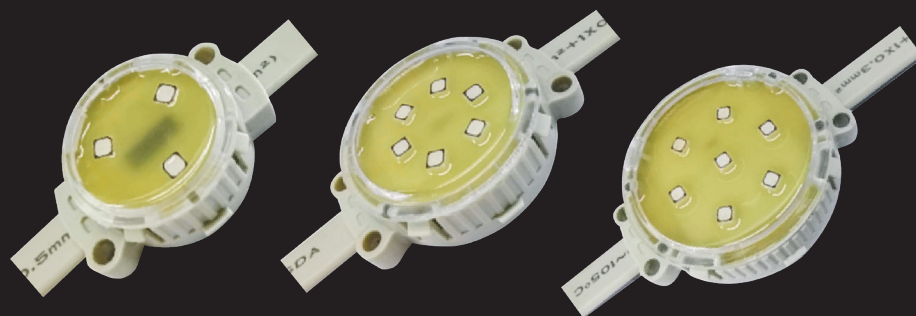
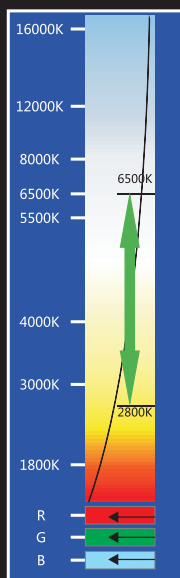




Version: A1.5

Features

- Using imported chips with high brightness and long service life
- Better color consistency and stability
- Adopt wire and cover with cold-resistant, anti-UV, flame retardant performance
- High IP grade perfect for outdoor use
- Special clips design
- Versatile and cost-effective
- Multiple installation methods

Application

- Architectural decoration, signage, display screen, letters and patterns etc.

Installation

- By clips
- By aluminum profile with screw holes
- By wire rope

Optical & Electrical Parameters

Model No.	Light Color	CCT/Wavelength (K/nm)	Beam Angle	Typical Light intensity(cd/pcs)	Gray Level	Voltage (DC)	Control Methods	Power (W/pcs)
D302-Y	Y	2000±200	120°	≥7.5	---	12V	On/Off	0.66
D302-G	G	520-525		≥7.5				
D302-B	B	465-470		≥7.5				
D302-W	W	2800-6500		≥15.0				
D304-RGB	R+G+B	100000	120°	≥7.5	256 levels	12V	4 lines DMX512	0.66
D305-RGB					256/65536		5 lines DMX512	

D402-Y	Y	2000±200	120°	≥10.0	---	24V	On/Off	1.3
D402-G	G	520-525		≥10.0				
D402-B	B	465-470		≥10.0				
D402-W	W	2800-6500		≥30.0				
D404-RGB	R+G+B	100000	120°	≥15.0	256 levels	24V	4 lines DMX512	1.3
D405-RGB					256/65536		5 lines DMX512	
D404-RGBW	R+G+B+W	100000	120°	≥22.0	256 levels	24V	4 lines DMX512	1.8
D405-RGBW					256/65536		5 lines DMX512	

D502-Y	Y	2000±200	120°	≥10.0	---	24V	On/Off	1.3
D502-G	G	520-525		≥10.0				
D502-B	B	465-470		≥10.0				
D502-W	W	2800-6500		≥30.0				
D504-RGB	R+G+B	100000	120°	≥15.0	256 levels	24V	4 lines DMX512	1.3
D505-RGB					256/65536		5 lines DMX512	
D504-RGBW	R+G+B+W	100000	120°	≥22.0	256 levels	24V	4 lines DMX512	1.8
D505-RGBW					256/65536		5 lines DMX512	

Other Parameters

Model No.	LED Quantity (pcs)	Standard Packing Quantity(pcs)	Standard Run (pcs)	Min Cuttable Quantity (pcs)	Working Temperature	Storage Temperature
D302-Y/G/B/W	3	40	40	1	-20~+60°C	-20~+70°C
D304-RGB						
D305-RGB						
D402-Y/G/B/W	6	30	30	1	-20~+60°C	-20~+70°C
D404-RGB/RGBW						
D405-RGB/RGBW						
D502-Y/G/B/W	7	30	30	1	-20~+60°C	-20~+70°C
D504-RGB/RGBW						
D505-RGB/RGBW						

Note:

Test environment temperature : 25±2°C.

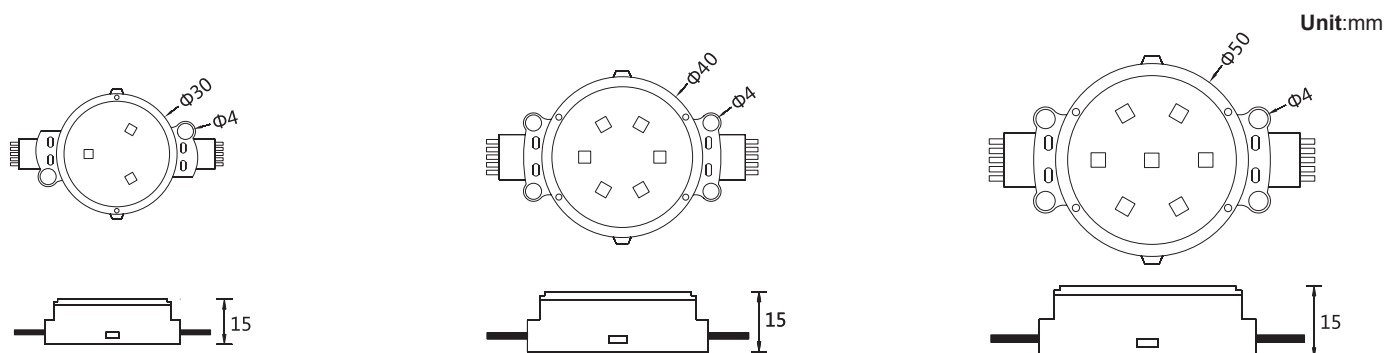
The above data is typical values. The actual data of each single product may differ from the typical values. The data is subject to change without notice.

Luminous flux is tested when lighting on with the single color.

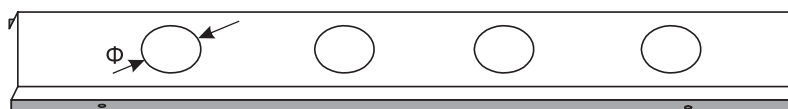
Different color temperature will make luminous flux different.

"- "- means no data for now.

Profile Drawings



Model No.	Hole Size(mm)
D30	Φ30
D40	Φ40
D50	Φ50



Note: If you need to open the hole, please do it according to the above size.

Product Accessories



Clips



Steel wire



Wire hook



Aluminum sleeve



Three-way head



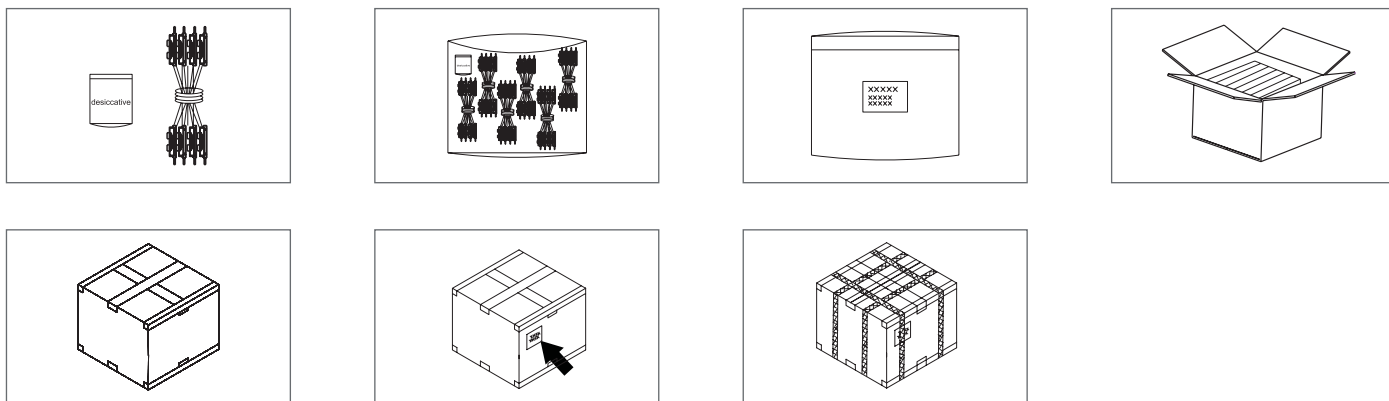
Waterproof connector



Aluminum profile

Note: All accessories can be added according to customer requirements.

Packaging



1. Place the checked product and desiccant neatly.
2. Put the product and desiccant into static shielding bag.
3. Seal and label the static shielding bag.
4. Put the static shielding bag side by side into carton box, the packing quantity refers to production task list.
5. Seal the box.
6. Label the box.
7. Use packing belt to pack after adding the edge protectors.

Packaging information

Model No.	Product Size Φ *H(mm)	Carton Size(mm)	Pcs/Bag	Bag/Carton	Net Weight(kg)	Gross Weight(kg)
D30	$\Phi 30 \times 15$	380*380*325	80	10	16.5(1 $\pm$ 10%)	17.3(1 $\pm$ 10%)
D40	$\Phi 40 \times 15$		80	8	18.1(1 $\pm$ 10%)	18.9(1 $\pm$ 10%)
D50	$\Phi 50 \times 15$		80	8	24.4(1 $\pm$ 10%)	25.2(1 $\pm$ 10%)

Note:

Packing materials: static shielding bag and carton box.

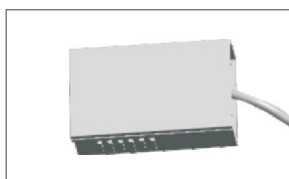
The above quantity and weight are only for the illustrated packaging method. There will be differences in the quantity and weight with other packaging methods.

Installation

1. Accessories & Tools



LED Light Source



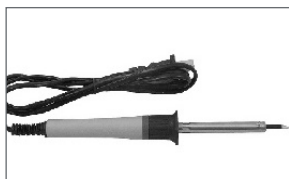
LED Power Supply



Controller



Insulation Tape



Electric Iron



Diagonal Pliers



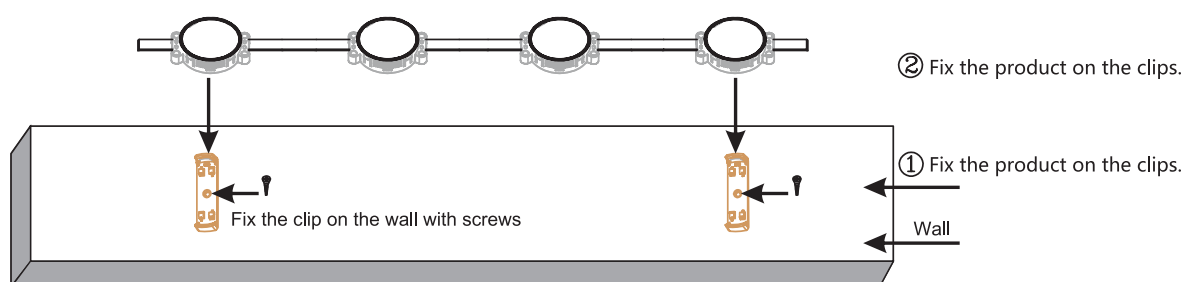
Electric Drill



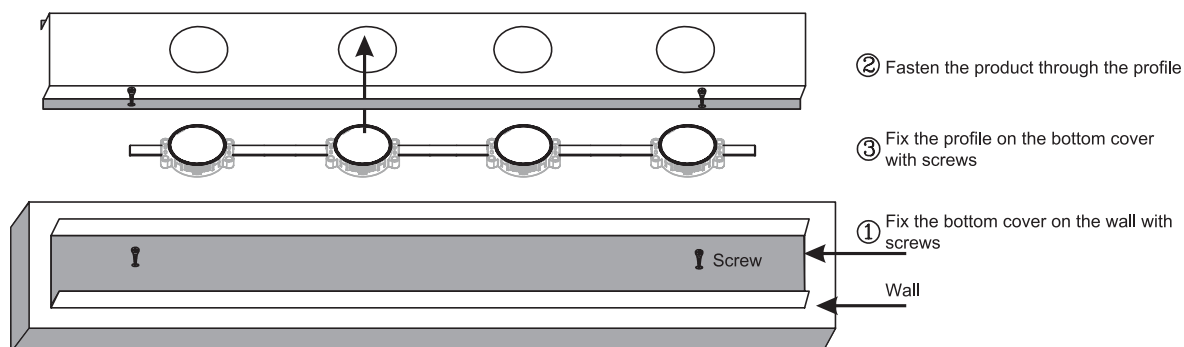
Self-tapping Screws

2.Installation Methods and Steps

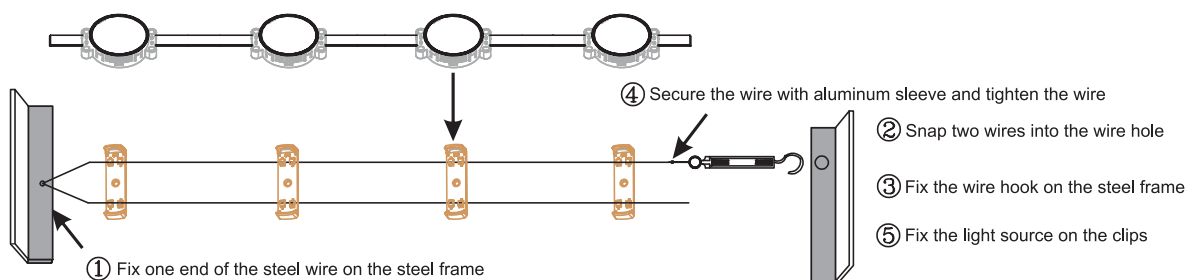
Mounted by clips



Mounted by aluminum profile with holes

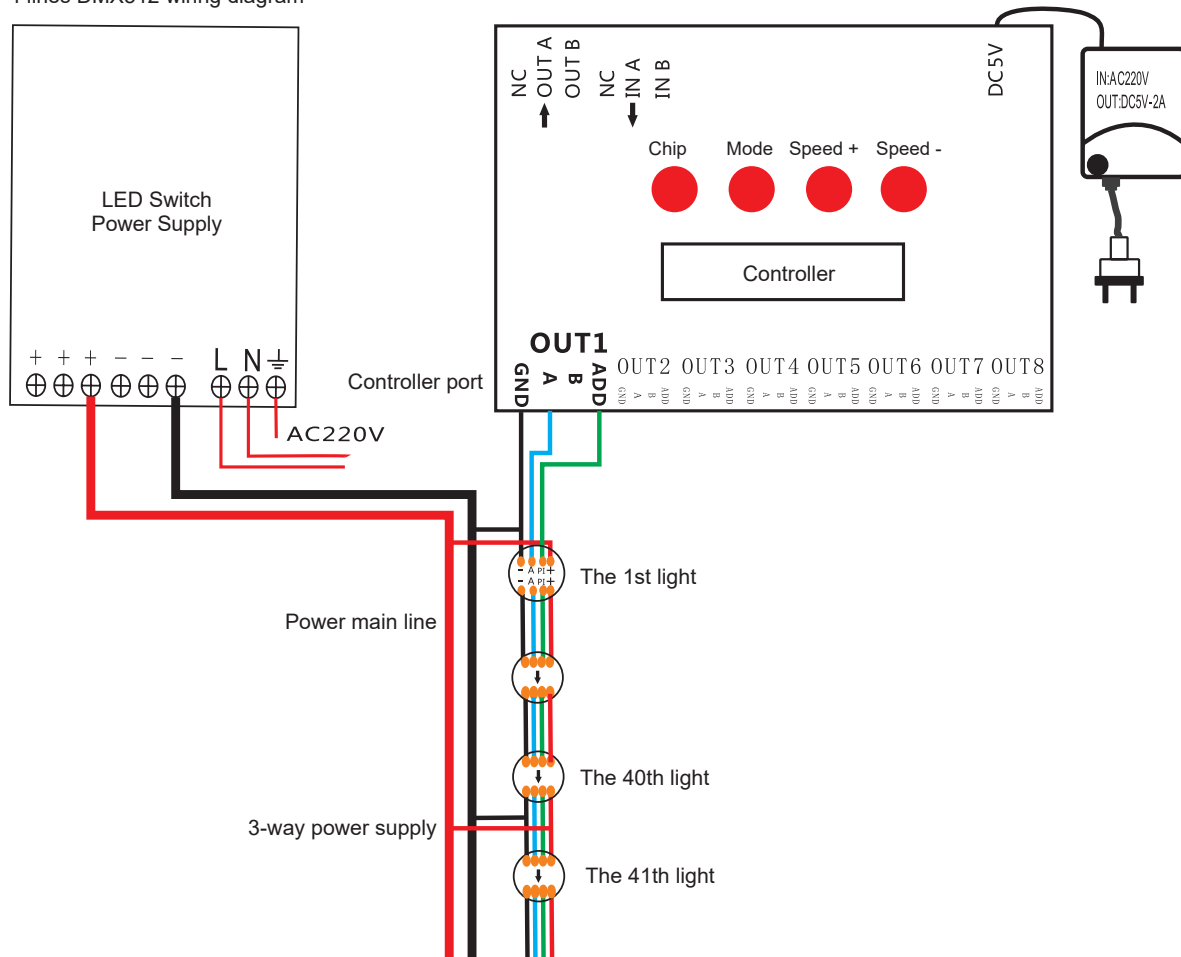


Mounted by wire rope

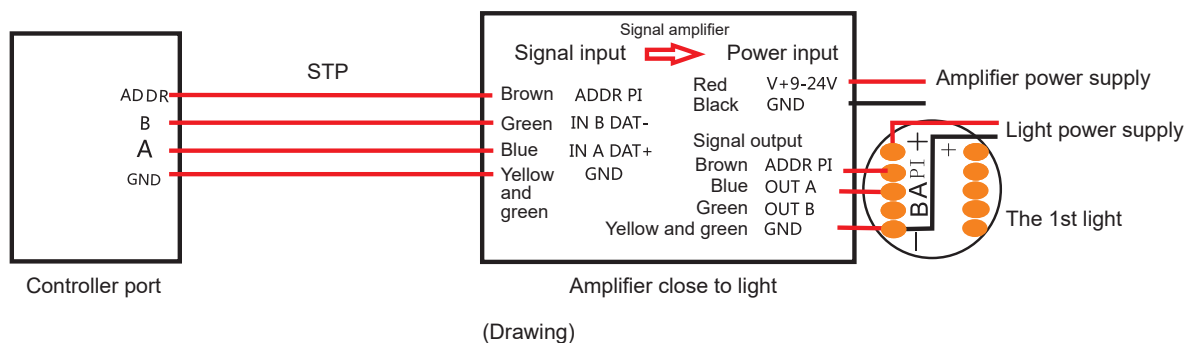


3. Connection between Controller and Products

4 lines DMX512 wiring diagram

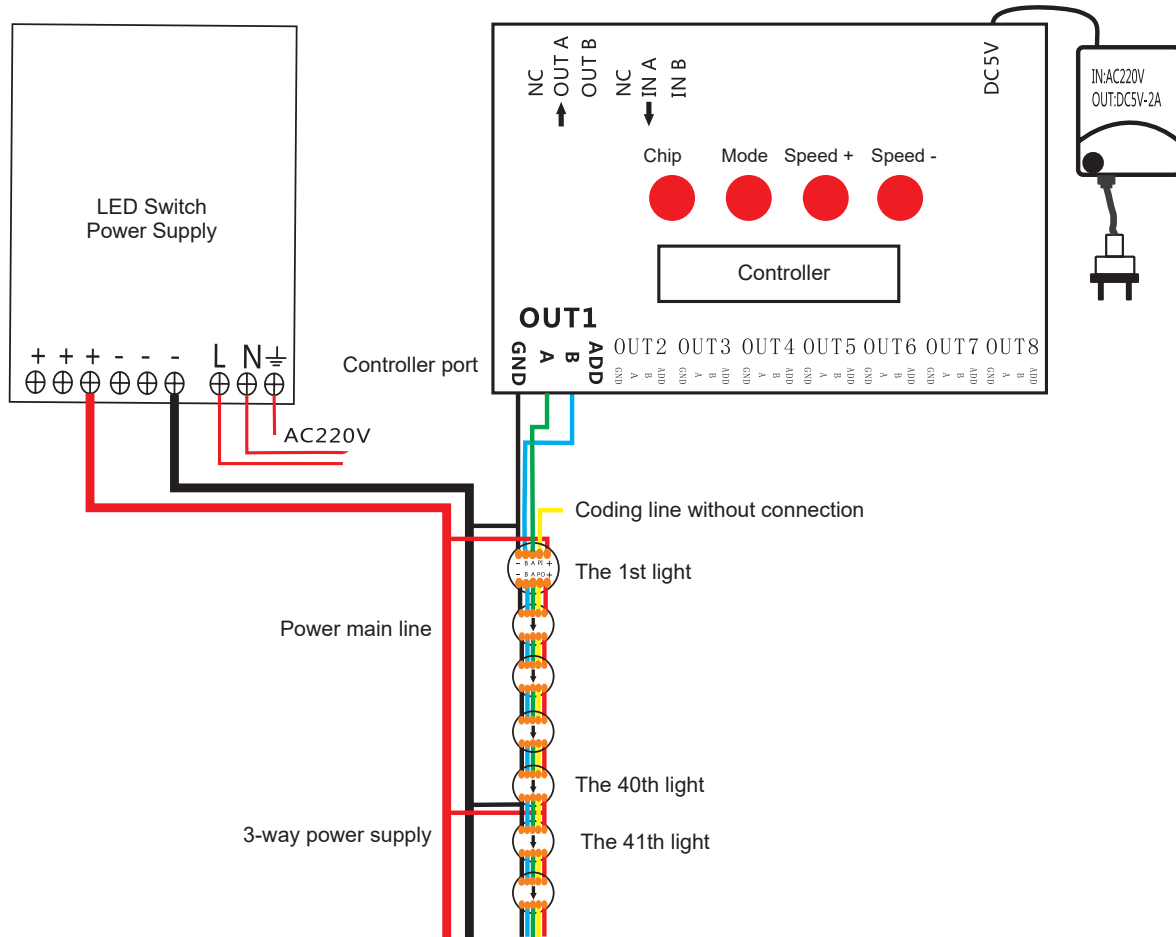


- Red line-positive; green line-coding; blue line-A; black line-negative.
- National standard 2.5mm² or greater is recommended for power supply mainline.
- Each controller port can load products within 300pcs.
- It is recommended to use the STP-CAT5E cable for connection wire between the 1st light and the controller.
- It is recommended to add a signal amplifier if the distance between the first light and the controller is more than 20 meters. (Drawing)

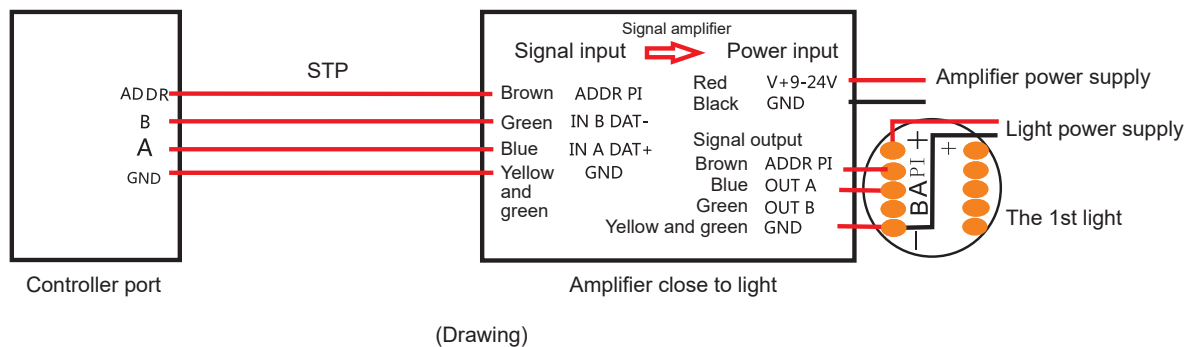


(Drawing)

2. 5 lines DMX512 wiring diagram



- Red line-positive; yellow line-coding; green line-A; blue line-B; black line-negative
- National standard 2.5mm² or greater is recommended for power supply mainline.
- Each controller port can load products within 300pcs.
- It is recommended to use the STP-CAT5E cable for connection wire between the 1st light and the controller.
- It is recommended to add a signal amplifier if the distance between the first light and the controller is more than 20 meters. (Drawing)



Note: The above reference uses the controller K-8000C, and there will be differences with other controllers, please pay attention to that.

Attentions before installation

- Before installation, check that the product parameters are consistent with the requirements (Seeing product specifications or product labels)
- Load voltage, current, power and power supply should be matched with the product.
- Follow the instructions of wiring diagram (first connect the load and then the power supply) to avoid short circuit.
- Make sure the correct connection of positive and negative poles between products and power supply. Otherwise, the light will not be on.
- Make sure the power cord firmly screwed into the terminal and it should not be pulled out by hands.
- The terminal should have insulation, waterproof and anti-corrosive treatment.

Common Faults and Troubleshoot

Quick Guide		
Problems	Reasons	Solutions
All LEDs can not light on.	No electric supply.	Fix the short circuit problem.
	Automatic power protection from the open or short circuit in output of the power supply.	
	Wrong connection of power supply.	
LEDs can not light on partly.	Some switching mode power supplies are not powered.	Correctly connection.
	Power supply line error.	
	Mistaken wire connection of some of products	
Brightness of LED is inconsistent tor insufficient.	Power overloaded.	Replace with more powerful power.
	Power supply circuit excessive consumption.	Make sure the working voltage of the product within $\pm 5\%$ of standard voltage, or keep balance by circuit power consumption.
	Excessive quantities in series connection of the product	Reduce the quantities of the product in series connection to meet requirement.
LED flicker.	Connection point fault.	Remove bad connection point.
	Switching power supply failure.	Replace a new power supply.
	Wrong Installation or use of products	Please follow the instructions

Warning

- Do not disassemble or retrofit the light. Do not touch the surface of the light with a sharp object.
- Do not do live-line working during installation, especially for high voltage product.
- Do not use any organic chemical solvents.
- Use neutral glass adhesive to fix this product and it needs to be dried 24 hours in the open environment after operation.
- Treat the ends and the circuit connection points that are not connected to the main line with insulation, waterproof, and anti-corrosion in the installation.
- Use 18AWG (0.75mm² cross-sectional area) or thicker core wire to avoid adverse consequences caused by overheating, if the power cable need to lengthen.
- Make sure the input voltage meets the requirements and lines are connected correctly before lighting on.
- This product is for signage, and do not use as general lighting.
- Series connection within the max run.
- The length of the power cable between the power supply and the led strip should not exceed 2 meters. Otherwise, large circuit loss will lead to inconsistent brightness.
- Installation, maintenance and repair should be operated by a qualified technician.

Statements and Recycling

Statements:

- Repair should be operated by a qualified technician, if the external circuit or main line of this product is damaged.
- The parameters given in this manual are typical values and for reference only.
- All illustrations and drawings in this manual are for reference.
- This product is subject to change without notice.

Recycling:

- LED lighting products belongs to electronic products, please do recycling treatment according to the relevant WEEE directives.

Common Questions and Answers for Controller Installation

Q: The controller screen display "SD Error" after power on, and there is no result output.

A: It means the controller did not read the card correctly, and the causes may be:

1. SD card is empty, no related files.
2. The file *.led in SD card is not matched with the controller, please choose the right controller and chip and then re-create the file *.led.
3. Change SD card and retest, to see whether the card is damaged.

Q: After the controller is powered on, the indicator light is normal, but the lamp has no light effect change.

A: The causes may be:

1. Check that whether the connection between the signal line of lamp and controller is correct.
2. There are signal input and signal output for general lamps, please make sure whether the control signal come from the signal end of the first lamp.

Q: After the controller is connected to the lamp, the lamp flashes and has light effect changes, and the controller indicator display is normal.

A:

1. The ground wire between the controller and the lamp is not connected.
2. The created light effect in SD card is wrong or the chip selected when doing light effect is not the same one in lamp.
3. If the chip is not locked when creating light effect in software, mounting the chip of the controller onto the corresponding chip of the lamp. For concrete position, please refer to the IC sequence of on the controller.

Q: SD card cannot be formatted.

A:

1. Please confirm that the protection switch on the side of the SD card has been unlocked. The direction of unlocking is toward the SD card gold needle.
 2. The protection lock has been designed as required, but it still cannot be formatted. It is mostly because the SD card readers are broken. Please replace the SD card reader. (It is recommended to use a better quality card reader like SSK).
 3. If the above operations cannot solve the formatting problem, please replace the SD card and retest.
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