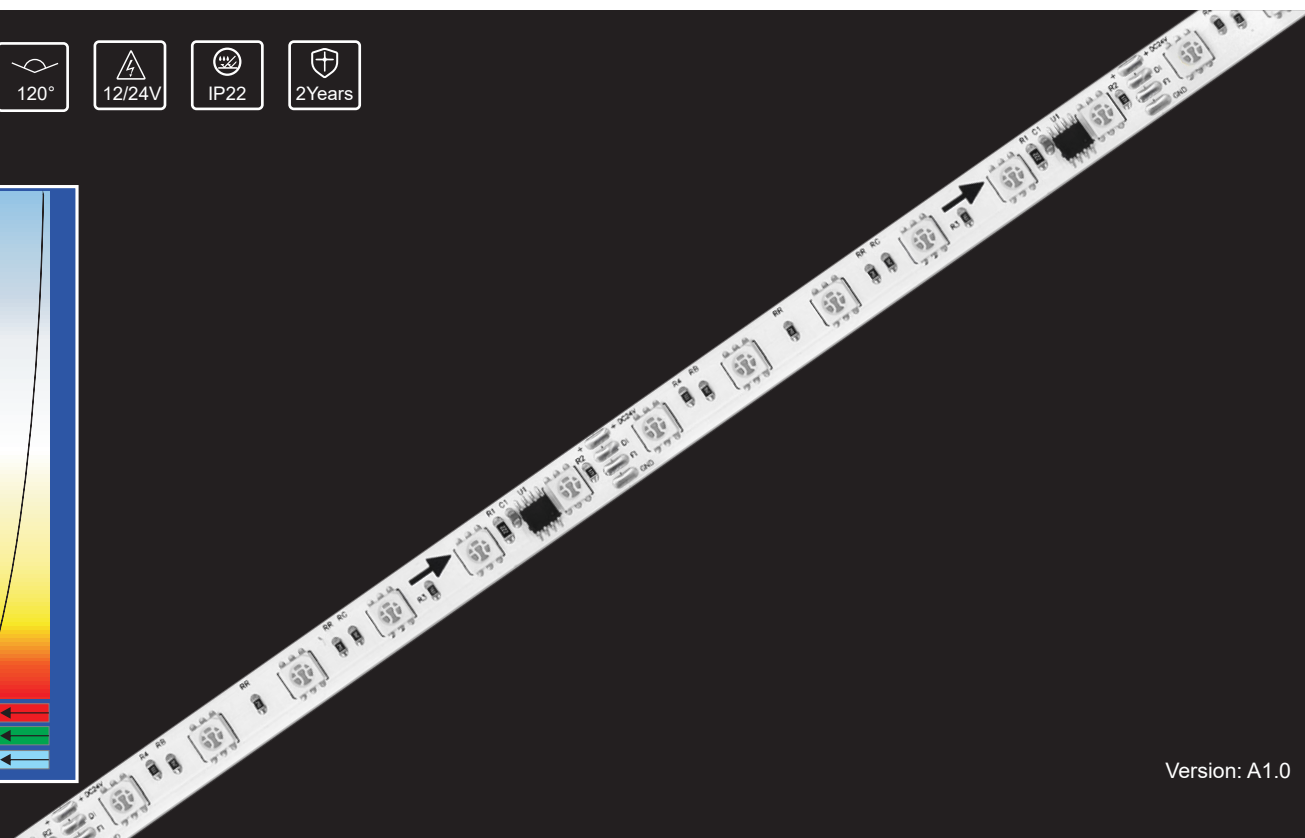
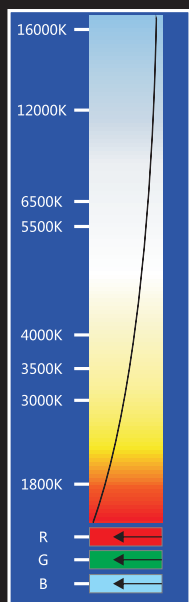




Version: A1.0

Features

1. High quality 5050 LED.
2. Flexible and cuttable
3. Good stability and reliability performance
4. Long lifespan with great lumen maintenance
5. To achieve rich light changes like dreaming color chasing effects like magic with controller
6. Do not support PWM dimming; suggested controller: SP105E/MR-502
7. Signal never rip even foregoing led error
8. Multiple specifications for options, customized available

Bending radius: $R_{min}=50mm$



Application

Suitable for home decoration, landscape lighting, showcase lighting, etc.

Installation

Fix by 3M self adhesive tape

Optical & Electrical Parameters

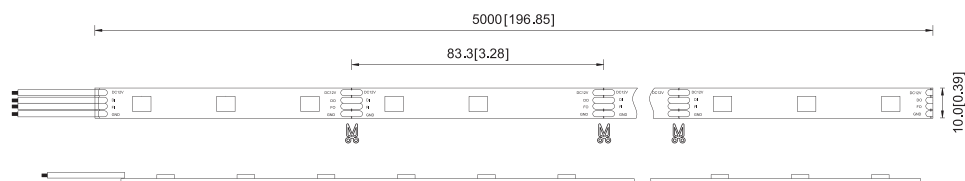
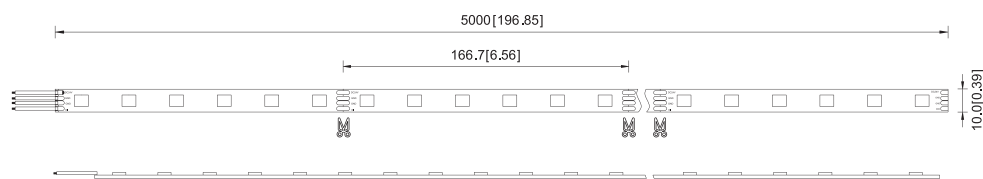
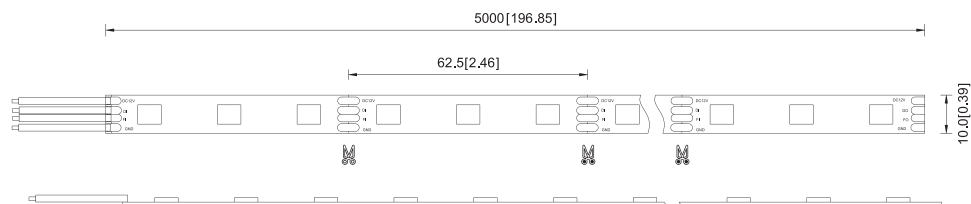
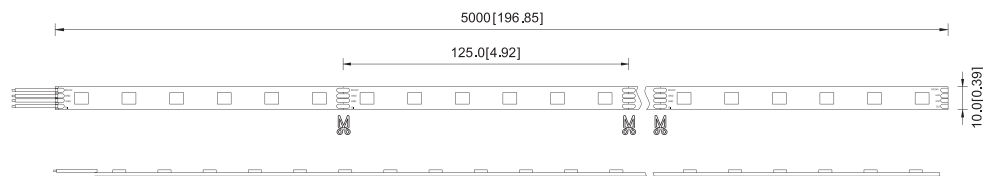
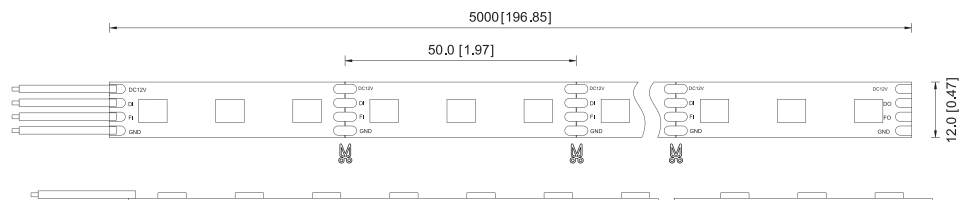
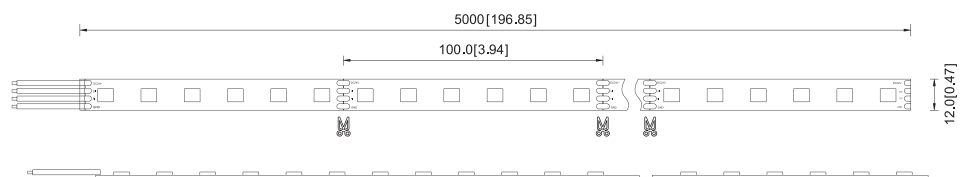
Model No.	Light Color	Color Temperature (K)	Beam Angle	Typical Luminous Flux value (lm/m)	Ra	Efficacy (lm/W)	Voltage (V DC)	Power (W/m)
DN5050A-36-12/24-RGB-D	R	615-630	120°	28	--	11.5	12/24V	2.45
	G	515-530		60		24.5		2.45
	B	460-470		14		5.5		2.45
	RGB	100000		147		20		7.35
DN5050A-48-12/24-RGB-D	R	615-630	120°	38	--	11.5	12/24V	3.26
	G	515-530		80		24.5		3.26
	B	460-470		18		5.5		3.26
	RGB	100000		196		20		9.79
DN5050A-60-12/24-RGB-D	R	615-630	120°	47	--	11.5	12/24V	4.08
	G	515-530		100		24.5		4.08
	B	460-470		23		5.5		4.08
	RGB	100000		245		20		12.24

Other Parameters

Model No.	LED Quantity (pcs/m)	Product Size L*W(mm)	Standard Packing Length(m)	Max Run Single feed(m)	Working Temperature	Storage Temperature
DN5050A-36-12-RGB-D	36	5000*10	5	4	-25~+60°C	-25~+70°C
DN5050A-36-24-RGB-D				5.5		
DN5050A-48-12-RGB-D	48	5000*10	5	3		
DN5050A-48-24-RGB-D				5		
DN5050A-60-12-RGB-D	60	5000*12	5	2.5		
DN5050A-60-24-RGB-D				4		

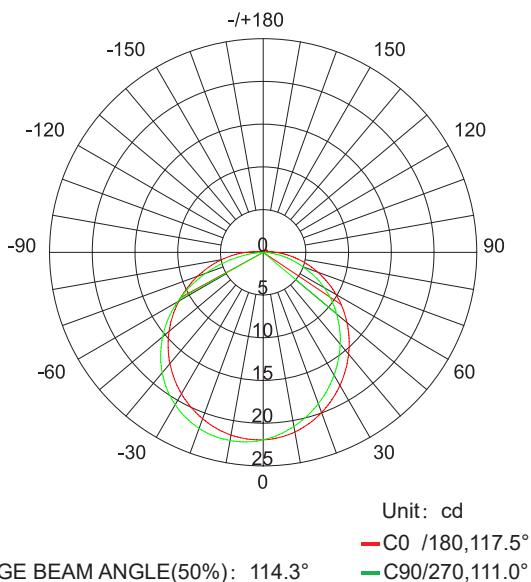
NOTE:

- 1.Test environment temperature : 25±2°C.
- 2.The luminous flux and power tolerance within ±10%.
- 3.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.
- 4.The luminous flux is tested with single light on.
- 5.Different color temperature will make luminous flux different.

Profile Drawings
DN5050A-36-12-RGB-D

DN5050A-36-12-RGB-D

DN5050A-48-12-RGB-D

DN5050A-48-12-RGB-D

DN5050A-60-12-RGB-D

DN5050A-60-12-RGB-D


NOTE: For detail drawing, please consult sales rep.

Luminous Intensity Distribution Diagram



Average Illumination

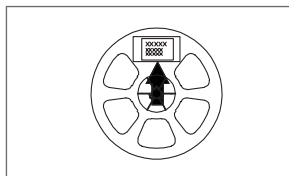
Flux Out: 45.85lm

1cm	66406,220736lx	2.91cm
2cm	16601,55184lx	5.82cm
3cm	7378,24526lx	8.73cm
4cm	4150,13796lx	11.64cm
5cm	2656,8829lx	14.55cm
6cm	1845,6132lx	17.47cm
7cm	1355,4505lx	20.38cm
8cm	1038,3449lx	23.29cm
9cm	819.8,2725lx	26.20cm
10cm	664.1,2207lx	29.11cm

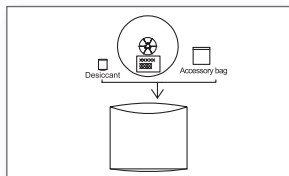
Height Eavg, Emax Beam Angle: 111.02° Diameter

NOTE:for other data,please consult sales rep.

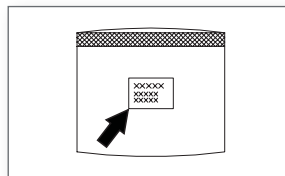
packing



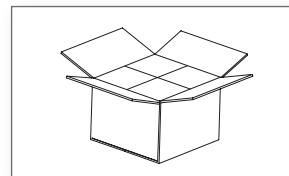
Label the reel;



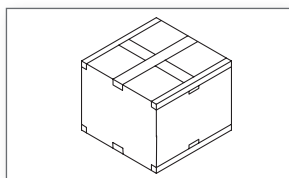
Put reel, accessory bag and desiccant together into static shielding bag;



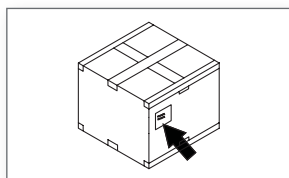
Seal and label the static shielding bag;



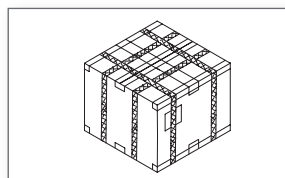
Put the packed static shielding bag into carton box;



Seal the carton box;



Label the box;



Use packing belt to pack. Add edge protectors if necessary.

Packaging information

Model No.	Product Size L*W(mm)	Carton Size(mm)	Meter/Reel	Reel/Carton	Net Weight(kg)	Gross Weight(kg)
DN5050A-36-12/24-RGB-D	5000*10	550*400*340	5	80	9.65(1±10%)	13.15(1±10%)
DN5050A-48-12/24-RGB-D	5000*10				9.65(1±10%)	13.15(1±10%)
DN5050A-60-12/24-RGB-D	5000*12				9.95(1±10%)	13.55(1±10%)

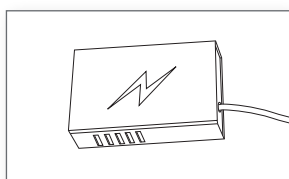
Note:

Five meters per reel, packed in the static shielding bag.

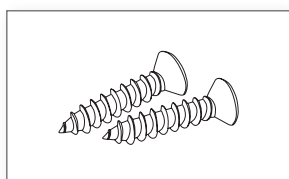
The above quantity and weight are only for the illustrated packaging method. There will be differences in the quantity and weight with other packaging methods.

Installation

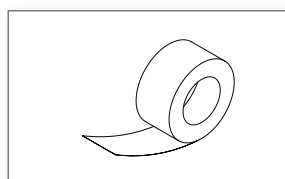
1.Products and Tools



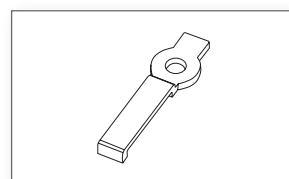
LED power supply



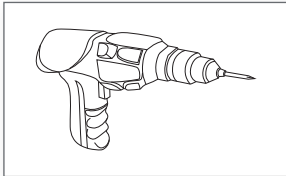
Self-tapping screw



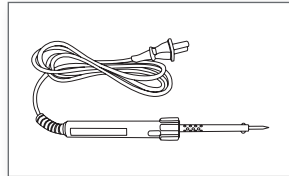
Insulation tape



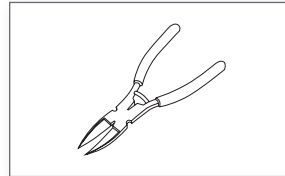
Clips



Electric drill



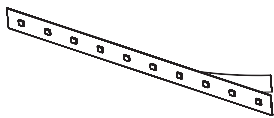
Electric Iron



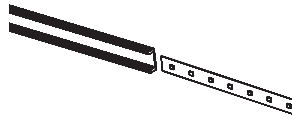
Diagonal Pliers

2.Installation Methods and Steps

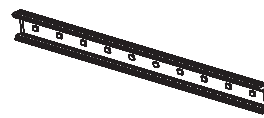
Aluminum channel installation



Peel away the self adhesive tape on the back of strip.



Cut off the excess part based on the installation position.

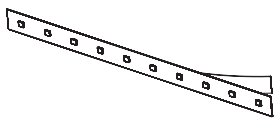


Evenly arrange the strips with appropriate space in the track.

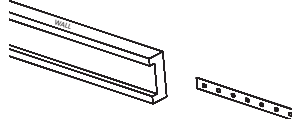


Install the cover and end cap.

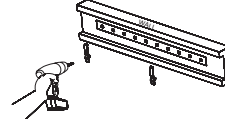
Covered channel installation



Peel away the self adhesive tape on the back of strip.



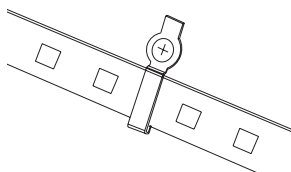
Cut off the excess part based on the installation position.



Evenly arrange the strips with appropriate space in the track and fix them with clips.



Install the cover and end cap.

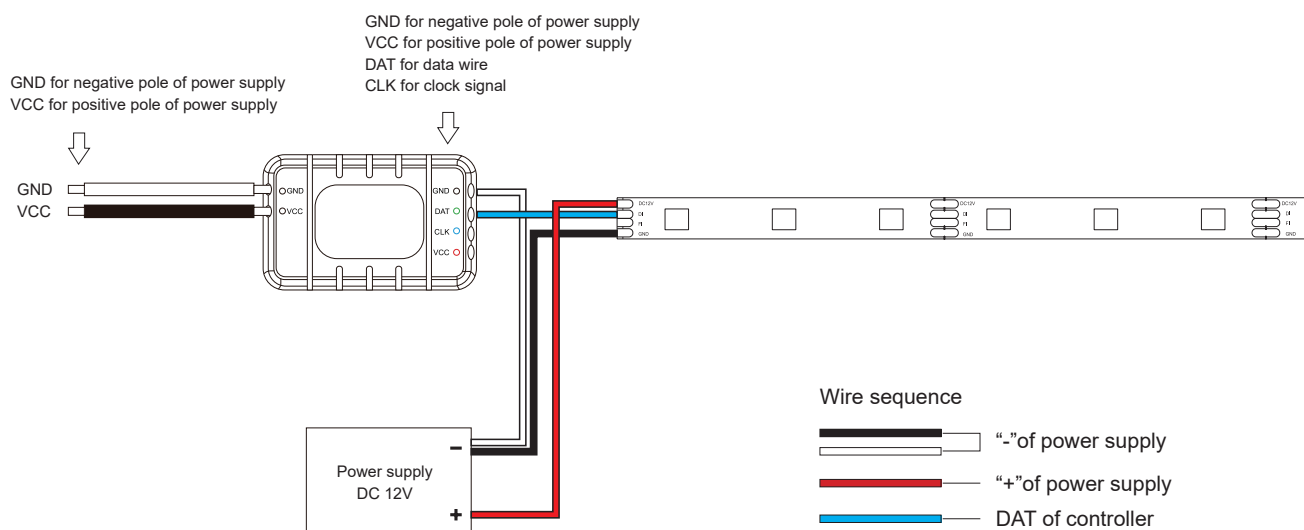


Clip installation as the figure show



Finished

Controller Wiring Diagram



Note:

- 1.The controller is SP105E.
- 2.Support Bluetooth and mobile APP control
- 3.Bluetooth remote control distance is 20 m
- 4.SP105E can drive up to 2048 pixels.
- 5.The working voltage of the controller ranges from DC 5V to DC 24V.
- 6.SP105E is typically recommended for use with a LED strip load of less than 50 meters.
- 7.Adopt single-line dual-channel communication and the SPI protocol. It is compatible with the TM1914 IC.

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.
- **If the working length exceeded the max run length, make sure to have extra power supply.**
- **If it needs higher current of a LED, make sure having extra cooling.**

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.