BLUEVIEW

LED

STRIP LIGHT

FN-2110-XXX-XX

CB CE RoHS c UL us LISTED E354137

Version: **A1.6**

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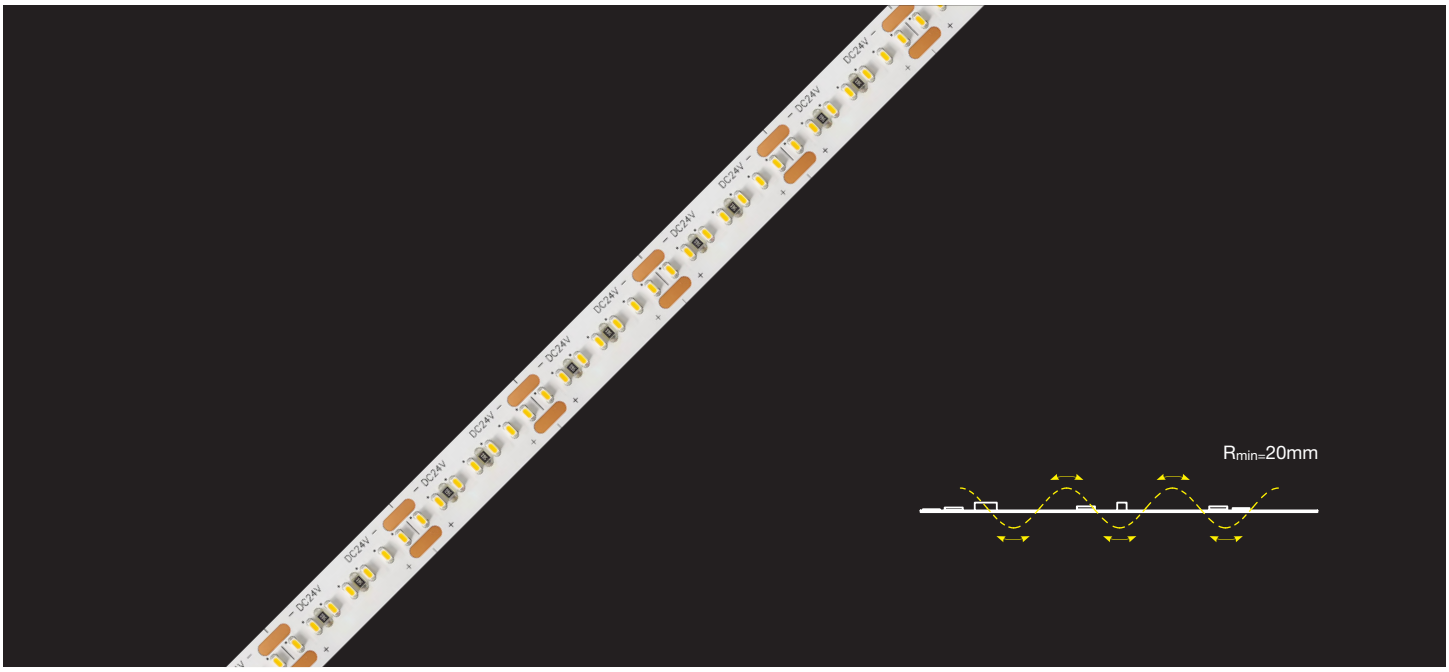


Features

- High density strip, good linear lighting effect
- Support PWM, 0~10V, DALI, DMX dimming
- High brightness and luminous efficiency
- Good flexibility and cuttable, suitable for curved surface
- Great lumen maintenance, long life span
- Excellent weather resistance and UV resistance
- Multiple specifications, support customization

Application

- Suitable for signage, advertising lightbox, contour lighting, etc

Installation

- Fix with 3M adhesive.

Optical & Electrical Parameters

Model No.	Voltage	Ra	CCT	LM/m	LM/W	W/m
FN-2110-266-24	24V DC	**>90**	2700±100K	999	73	13.68
			3000±100K	1094	80	
			3500±150K	1081	79	
			4000±200K	1135	83	
			5000±250K	1176	86	
			6000±250K	1122	82	
			6500±300K	1218	89	
FN-2110-266-24	24V DC	**>95**	2700±100K	862	63	13.68
			3000±100K	917	67	
			3500±150K	917	67	
			4000±200K	930	68	
			5000±250K	985	72	

Model No.	Voltage	Ra	CCT	LM/m	LM/W	W/m
FN-2110-350-24	24V DC	**>90**	2700±100K	1066	74	14.4
			3000±100K	1138	79	
			3500±150K	1138	79	
			4000±200K	1210	84	
			5000±250K	1210	84	
			6000±250K	1152	80	
			6500±300K	1267	88	
FN-2110-350-24	24V DC	**>95**	2700±100K	936	65	14.4
			3000±100K	950	66	
			3500±150K	994	69	
			4000±200K	965	67	
			5000±250K	1080	75	

Model No.	Voltage	Ra	CCT	LM/m	LM/W	W/m
FN-2110-490-24	24V DC	**>90**	2700±100K	1277	76	16.8
			3000±100K	1361	81	
			3500±150K	1378	82	
			4000±200K	1411	84	
			5000±250K	1462	87	
			6000±250K	1428	85	
			6500±300K	1546	92	
FN-2110-490-24	24V DC	**>95**	2700±100K	1092	65	16.8
			3000±100K	1142	68	
			3500±150K	1159	69	
			4000±200K	1142	68	
			5000±250K	1260	75	

Model No.	Voltage	Ra	CCT	LM/m	LM/W	W/m
FN-2110-630-12	12V DC	**>90**	2700±100K	1688	67	25.2
			3000±100K	1789	71	
			3500±150K	1814	72	
			4000±200K	1814	72	
			5000±250K	1940	77	
			6000±250K	1814	72	
			6500±300K	2041	81	
FN-2110-630-12	12V DC	**>95**	2700±100K	1462	58	25.2
			3000±100K	1487	59	
			3500±150K	1587	63	
			4000±200K	1512	60	
			5000±250K	1739	69	

Model No.	Voltage	Ra	CCT	LM/m	LM/W	W/m
FN-2110-630-24	24V DC	**>90**	2700±100K	1663	77	21.6
			3000±100K	1728	80	
			3500±150K	1706	79	
			4000±200K	1858	86	
			5000±250K	1879	87	
			6000±250K	1750	81	
			6500±300K	1901	88	
FN-2110-630-24	24V DC	**>95**	2700±100K	1404	65	21.6
			3000±100K	1382	64	
			3500±150K	1468	68	
			4000±200K	1447	67	
			5000±250K	1598	74	

Model No.	Voltage	Ra	CCT	LM/m	LM/W	W/m
FN-2110-700-24	24V DC	**>90**	2700±100K	1824	76	24.0
			3000±100K	1920	80	
			3500±150K	1920	80	
			4000±200K	2112	88	
			5000±250K	2088	87	
			6000±250K	1992	83	
			6500±300K	2136	89	
FN-2110-700-24	24V DC	**>95**	2700±100K	1512	63	24.0
			3000±100K	1608	67	
			3500±150K	1584	66	
			4000±200K	1680	70	
			5000±250K	1800	75	

Other Parameters

Model No.	LED QTY	Max Run	Min. Cuttable Length	Working Temperature	Storage Temperature
FN-2110-266-24	266 pcs/m	4.0m	26.3mm	-20~+60 °C	-20~+70 °C
FN-2110-350-24	350 pcs/m	4.0m	20.0mm		
FN-2110-490-24	490 pcs/m	3.5m	14.3mm		
FN-2110-630-12	630 pcs/m	3.0m	14.3mm		
FN-2110-630-24	630 pcs/m	1.0m	11.1mm		
FN-2110-700-24	700 pcs/m	2.5m	10.0mm		

NOTE:

- The above data was measured under standard conditions and actual data may be different. We would update data without further notice.
- The luminous flux was tested while the corresponding-color products were lightened.
- UL max run refers to operating length at UL class II @100W.24V.
- Luminous flux values were measured accordance to IES LM-80-08. LED chips with tolerance range of +/- 10%.
- Each maximum-run requires a dedicated power feed from the driver. Do not exceed the recommended maximum run length. Max run may exceed Class 2 limits.
- Actual wattage may be different from the calculated wattage due to voltage drop while using.
- Actual efficacy value is determined by the specific LED driver (power supply). An estimated efficacy value can be calculated as follows: Luminous intensity divided by average power consumption.
- Do not install products in the conditions that exceed the listed ambient temperature. Exceeding the maximum ambient temperature may damage LED chips, reduce the total lamp life, luminous intensity output, and/or adversely impact color consistency.
- Operating temperature was measured under the minimum and maximum ambient temperature environment.
- Cutting segments are marked on the profiles below.
- If the product power is greater than 15W, auxiliary heat dissipation appliances must be added.

Performance

- LED chip data measured in accordance to IES LM-80-08.
- Photometric & Colorimetry data measured in accordance to IES LM-79-08, in Blueview ‘s TUV Innovation Lab.

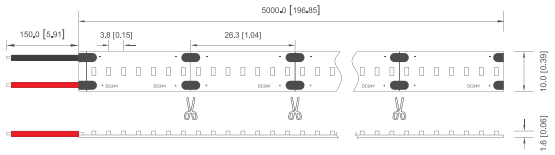
Compliance & Regulatory Approvals

CE	CE LVD	Standard: EN 60598-2-21: 2015; EN 60598-1: 2015; EN 62471: 2008; EN 62493:2015; EN 62031: 2015+A1: 2013+A2: 2015
CE	CE EMC	Standard: EN IEC 55015: 2019; EN IEC 61000-3-2: 2019; EN 61000-3-3:2013+A1: 2019;EN 61547: 2009
CB	CB	Standard: IEC 62031:2018
c UL us LISTED	UL LISTED	Standard: UL 2108 E354137-Low-voltage Lighting Systems, Power Units, Luminaires and Fittings
RoHS	RoHS	Standard: IEC62321

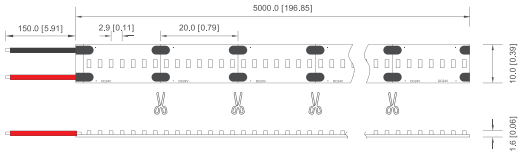
Profile Drawings

Unit: mm [inch]

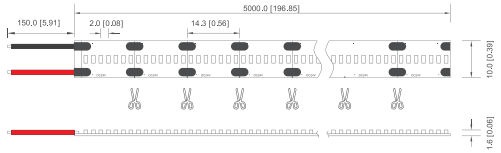
FN-2110-266-24



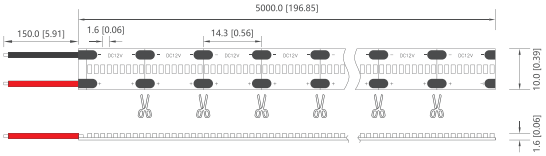
FN-2110-350-24



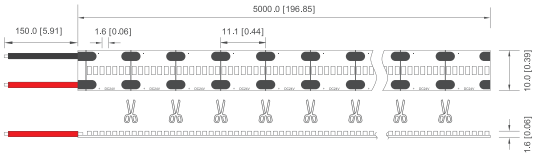
FN-2110-490-24



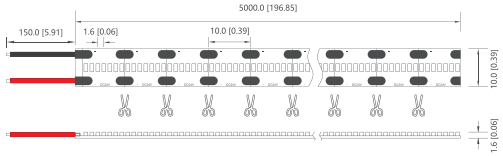
FN-2110-630-12



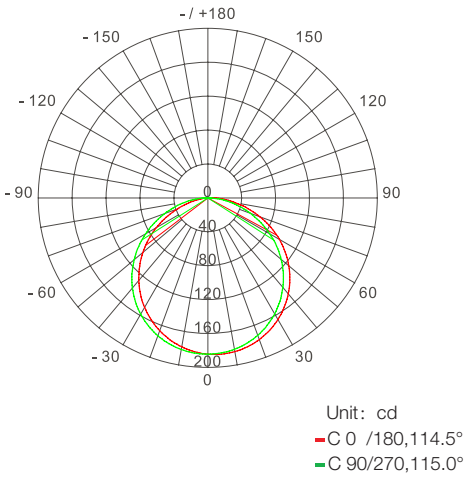
FN-2110-630-24



FN-2110-700-24

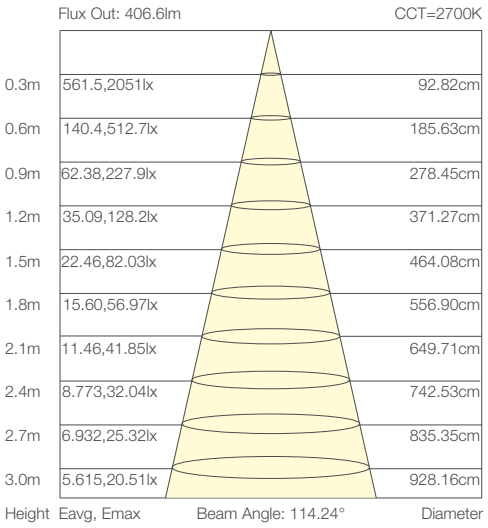


Luminous Intensity Distribution Diagram



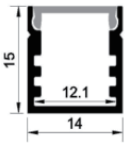
AVERAGE BEAM ANGLE(50%): 114.7°

Average Illumination

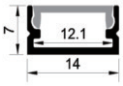


Note: above data tested with FN-2110-266-24, Ra90+, at 2700K . For other data,please consult sales rep.

Recommended Profiles



1415K

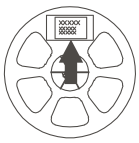


1407K

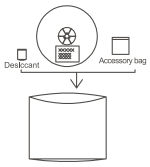
1506

1707

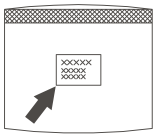
Packaging Information



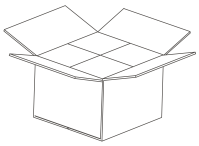
Label the reel;



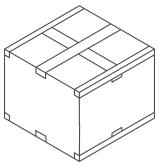
Put reel, accessory bag and desiccant together into static shielding bag;



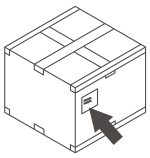
Seal and label the static shielding bag;



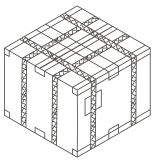
Put the packed static shielding bag into carton box;



Seal the carton box;



Label the box;



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

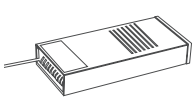
Packaging information

Model No.	Product Size L*W	Carton Size	Meter/Reel	Reel/Carton	Net Weight (kg)	Gross Weight (kg)
FN-2110-266-24	5000*10mm	550*400*340mm	5	100	10.5(1±10%)	14.5(1±10%)
FN-2110-350-24	5000*10mm	550*400*340mm	5	100	10.3(1±10%)	14.8(1±10%)
FN-2110-490-24	5000*10mm	550*400*340mm	5	100	10.6(1±10%)	15.1(1±10%)
FN-2110-630-12	5000*10mm	550*400*340mm	5	100	11.1(1±10%)	15.6(1±10%)
FN-2110-630-24	5000*10mm	550*400*340mm	5	100	10.9(1±10%)	15.4(1±10%)
FN-2110-700-24	5000*10mm	550*400*340mm	5	100	11.4(1±10%)	15.9(1±10%)

NOTE:

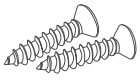
• The above quantity and weight are only for the illustrated packaging method. There will be differences in the quantity and weight with other packaging methods.

Installation



LED power supply

Diagonal pliers

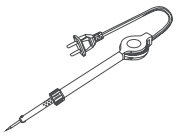


Screw

Insulation Tape

Clips

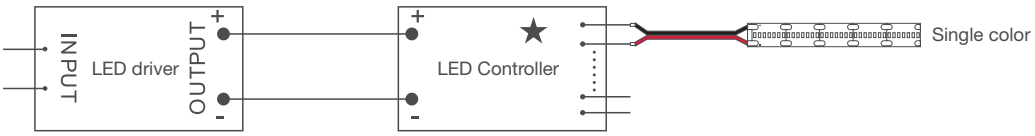
Electric drill



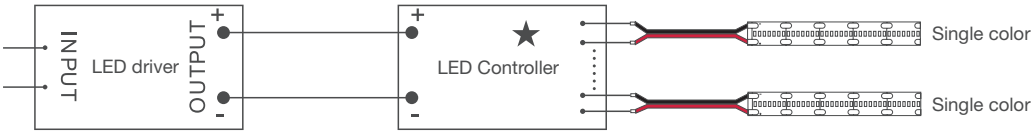
Electric iron

Wring Diagram

Wiring of single color strip



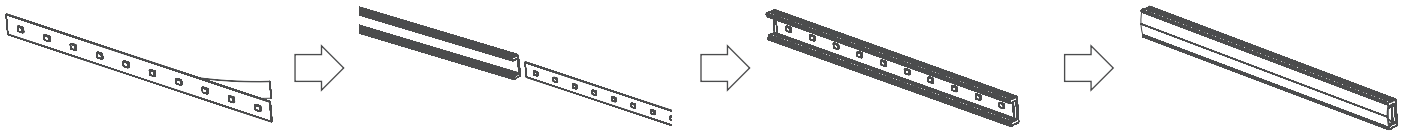
Wiring of multi-color strip



Note: the controller is optional

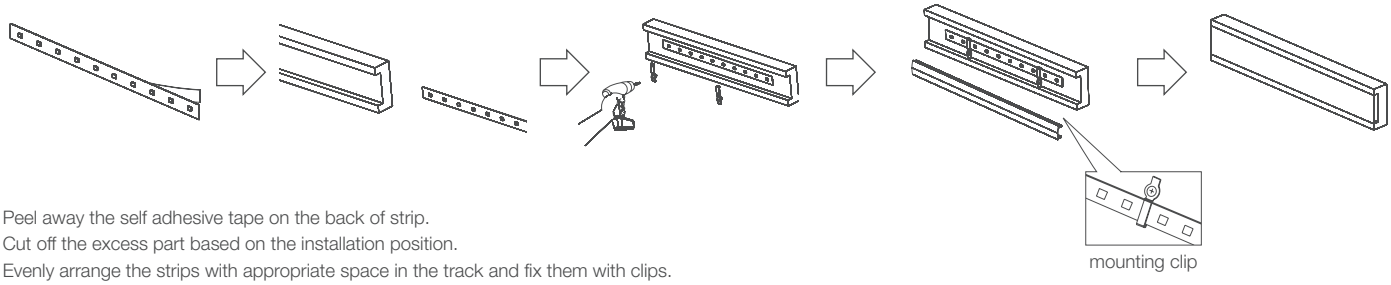
Installation Methods and Steps

Aluminum channel installation



1. Peel away the self adhesive tape on the back of strip.
2. Cut off the excess part based on the installation position.
3. Evenly arrange the strips with appropriate space in the track.
4. Install the cover and end cap.

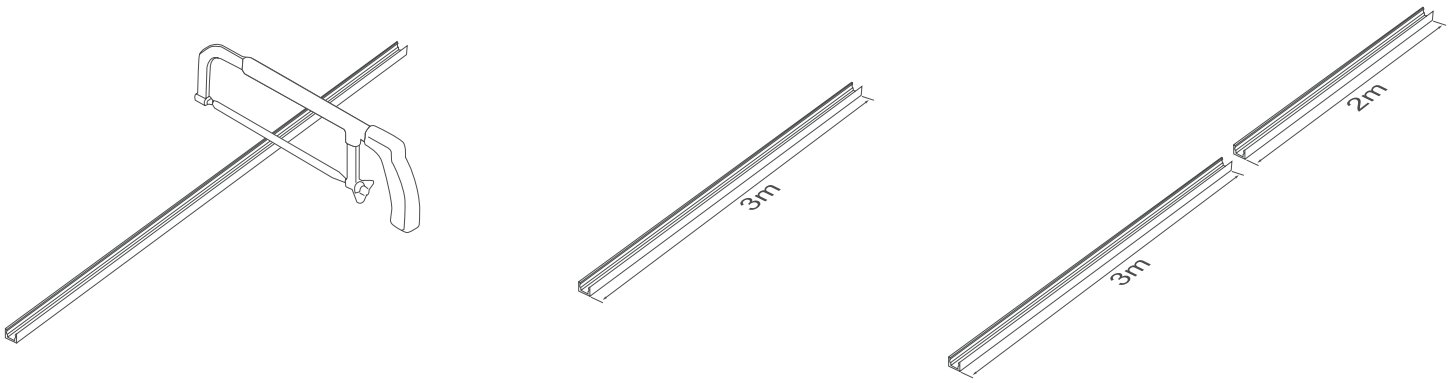
Covered channel installation



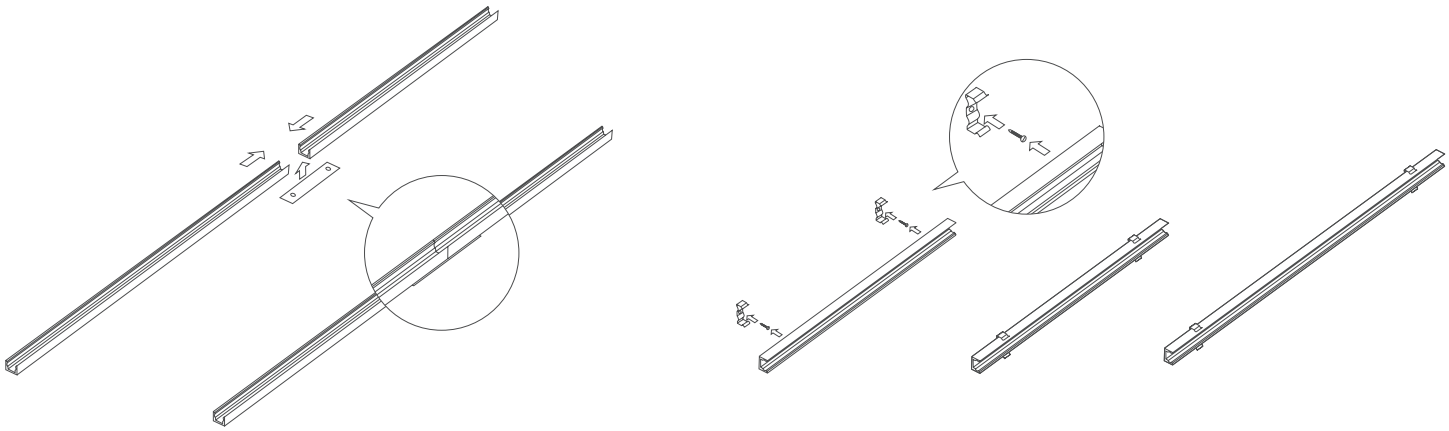
1. Peel away the self adhesive tape on the back of strip.
2. Cut off the excess part based on the installation position.
3. Evenly arrange the strips with appropriate space in the track and fix them with clips.
4. Install the cover and end cap.
5. Finished

Aluminum Profile and LED Strip Cutting

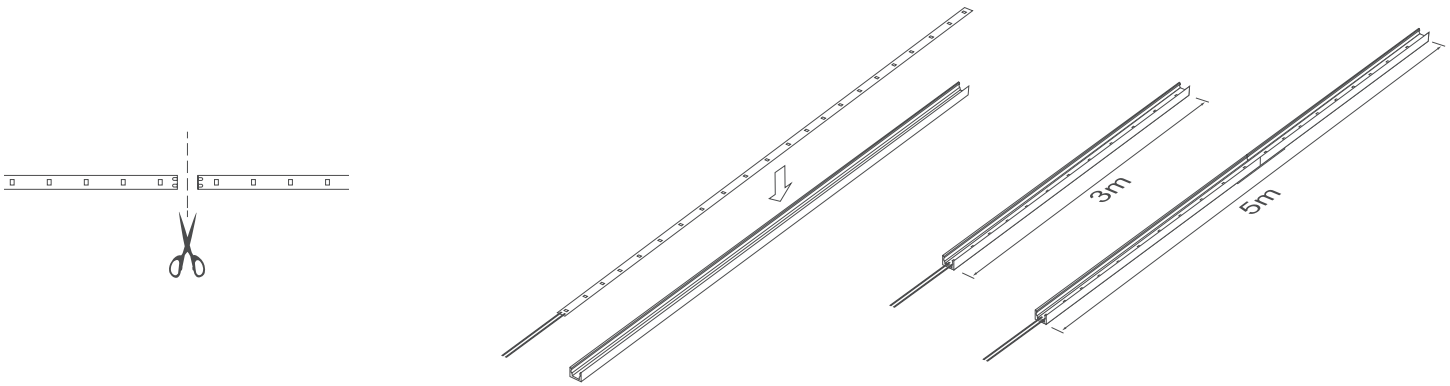
Cut the profile to proper length



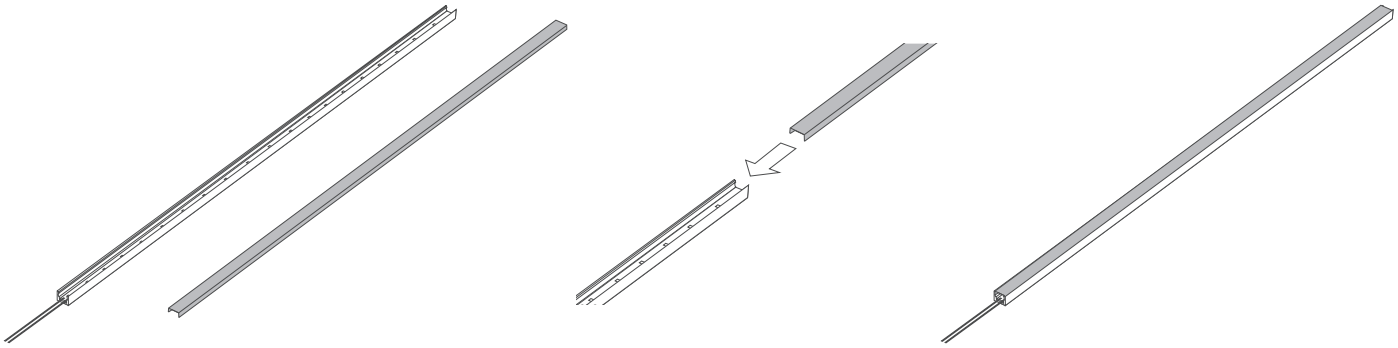
Splicing the profiles and then fixing them with mounting clips;



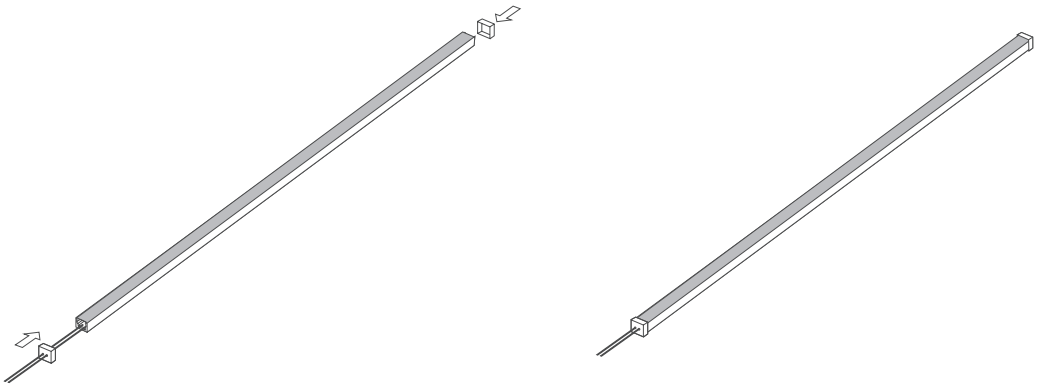
Cut the strip based on the profile length, then install the strip on the profile. Pay attention to heat dissipation, fixing and power feeding



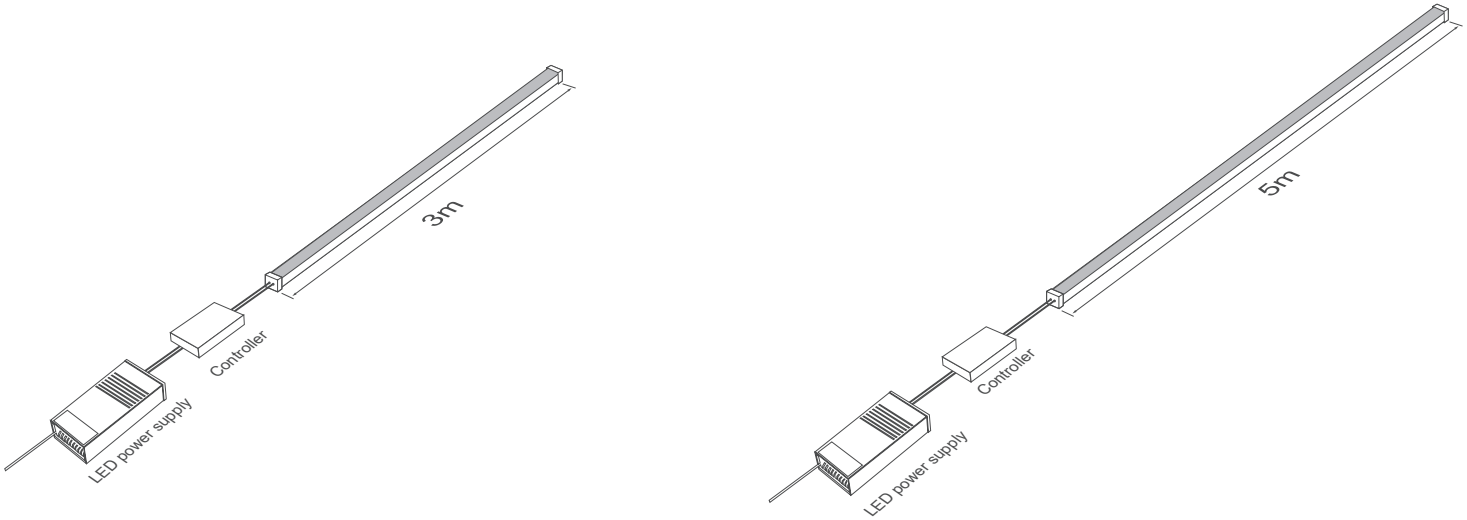
Install the PC cover



Install the end -caps to the both ends of the aluminum profile



Connect power supply and controller



Attentions before installation

- Check whether the power line is screwed into the terminal firmly, and it is better not to pull it out by hand.
- 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.
- The wiring terminal must be provided with effective waterproof and anti-corrosion treatment.
- **For non-waterproof or S-type strips, extra power feed is needed when mounting length exceed standard run.**
- **For non-waterproof or S-type strips, auxiliary heat dissipation appliances must be added when the current of single LED exceeds regular value.**

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 ±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 4 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.

Energy efficiency classes of light sources

Energy efficiency class	Total mains efficacy η_{TM} (lm/W)
A	$210 \leq \eta_{TM}$
B	$185 \leq \eta_{TM} < 210$
C	$160 \leq \eta_{TM} < 185$
D	$135 \leq \eta_{TM} < 160$
E	$110 \leq \eta_{TM} < 135$
F	$85 \leq \eta_{TM} < 110$
G	$\eta_{TM} < 85$

Note: The above table is sourced from "ERP:EU2019/2020 & Energy Label: EU2019/2015

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