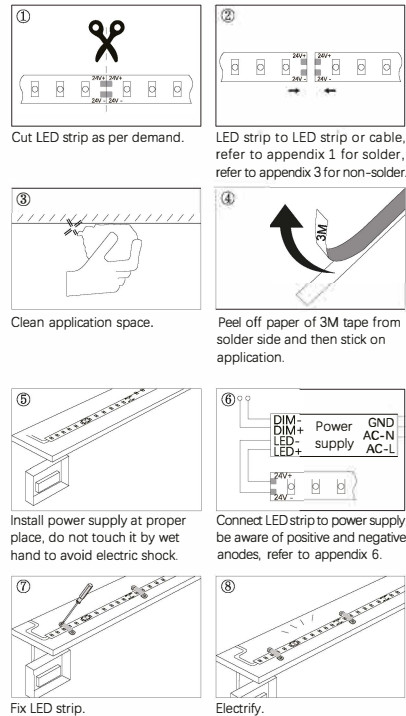


USER MANUAL

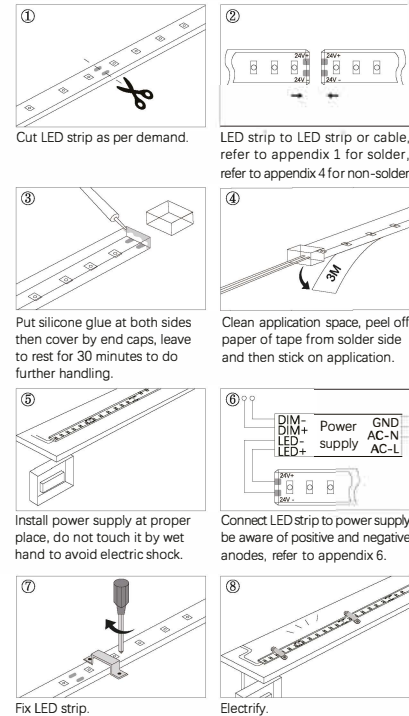
Note:

1. Read manuals attentively before installation.
2. Install by qualified electrician, be aware of antistatic factors.
3. Do not electrify it while installation is ongoing.
4. Cut off electricity while installing or removing.
5. Operating temperature: -20°C ~ +45°C.
6. Application space is with no chemical compositions such as sulphur, acid, halogen etc.

LED STRIP: IP20/IP55/IP66

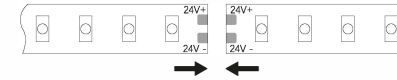


LED STRIP: IP65/IP67

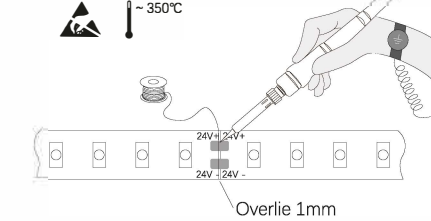


Appendix 1: Solder cable or FPC

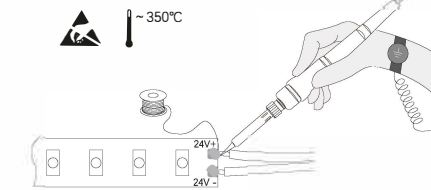
1. FPC to FPC, line up LED strips, positive to positive, negative to negative.



- 1.1 Wear electrostatic ring, overlie one FPC onto another FPC for around 1mm, solder around 3~5 seconds, temperature is no more than 350°C.

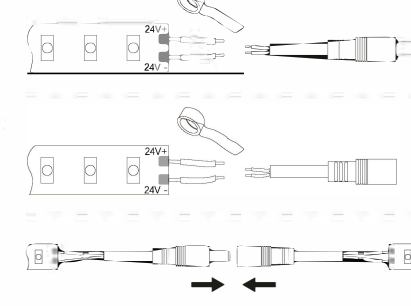


2. FPC to cables, be aware of positive and negative anodes, wear electrostatic ring, solder around 3~5 seconds, temperature is no more than 350°C.

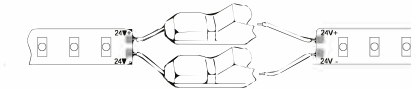


Appendix 2: cable with DC connector + cable connector

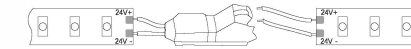
1. DC connector, refer to figure to do connection, positive to positive, negative to negative, then do insulation.



2. 1-pin cable connector, refer to figure, positive to positive, negative to negative, suitable for cables with external diameter less than 2.1mm.

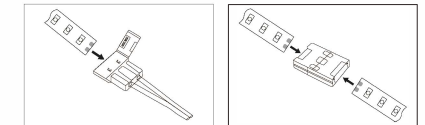


3. 2-pin cable connector, refer to figure, positive to positive, negative to negative, suitable for cables with external diameter 1.5~2.1mm.

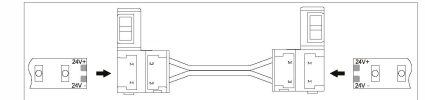


Appendix 3: IP20/IP55/IP66 nonsolder connector

1. Non-solder connector (IP20/IP66)

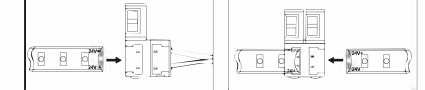


Cable+connector: open cap, insert LED strip, close (be aware of positive and negative anodes)

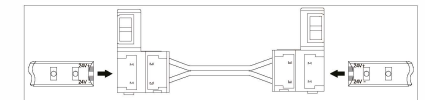


Connector+cables+connector: open caps, insert LED strip, close (be aware of positive and negative anodes).

2. Non-solder connector (IP55)



Cable+connector: open cap, insert LED strip, close (be aware of positive and negative anodes)



Connector+cables+connector: open caps, insert LED strip, close (be aware of positive and negative anodes).

Appendix 4: IP65/IP67 non-solder connector

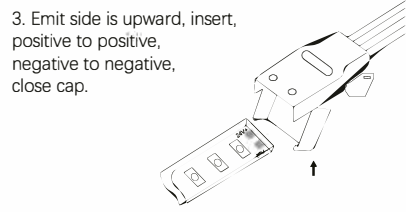
1. Cut LED strip as per demand.



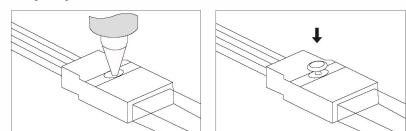
2. Peel off tape around 11mm (±2mm).



3. Emit side is upward, insert, positive to positive, negative to negative, close cap.

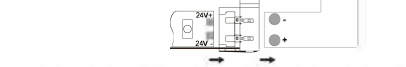


4. Inject silicone glue into connector, insert plug, leave to rest for 30 minutes to do further handling, fully dry within around 24 hours.



Appendix 5: corner connector

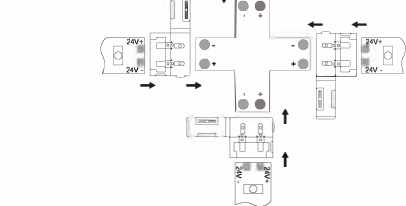
1. L connector, positive to positive, negative to negative, insert, close.



2. T connector, positive to positive, negative to negative, insert, close.

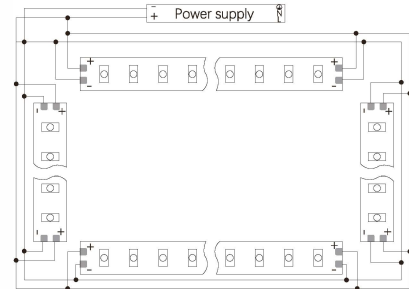


3. X connector, positive to positive, negative to negative, insert, close.

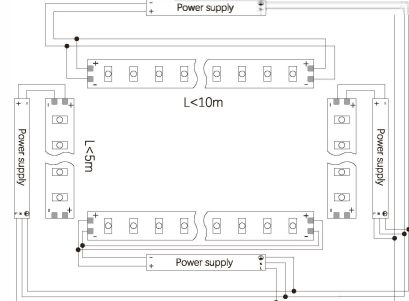


Appendix 6: diagram of power supply wiring

1. One power supply connects to several LED strips (constant voltage).

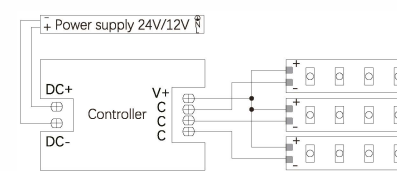


2. Several power supplies connect to several LED strips, connect to one side, L<5m, connect to both sides, L<10m.

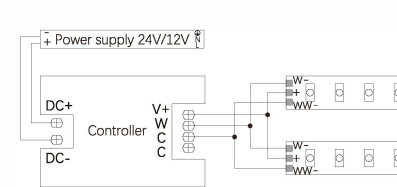


Appendix 7: diagram of controller wiring

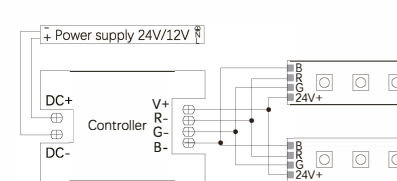
1. Homochromy dimming controller.



2. Dual-color tunable controller.

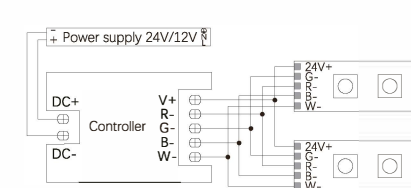


3. RGB controller.

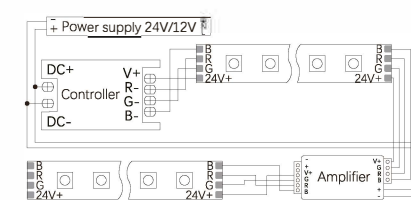


Appendix 7.2: diagram of controller wiring

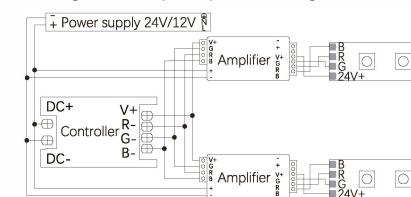
4. RGBW controller.



5. Diagram of amplifier series wiring.



6. Diagram of amplifier parallel wiring.



Appendix 8: FAQ

Q: Warranty?

A: Under normal condition and proper handling, non-waterproof 5-year warranty, nano waterproof 2-year warranty, other waterproof 3-year warranty. We will repair or replace products covered under this warranty with components at our company's election or discretion if quality defect to be confirmed.

Q: What conditions would make warranty to be invalid?

1. Do not comply to instruction or user manual to misuse products to damage products.
2. Disassemble products to damage products.
3. The products are damaged or deformation badly.

Q: Why all LEDs do not light or no color changing?

A: Double check if it is power-on, if wiring correctly, if there is short-circuit, if power fuse burned etc, correct it if finding anything wrong

Q: Why part of LEDs do not light or no color changing?

A: Double check if there is any poor contact, if the power of LED strips is higher than power supply, if yes, improve contact or change power supply with higher power.

Q: Why LEDs are twinkle?

A: Double check if there is any poor contact, if the power of LED strips is higher than power supply, if yes, improve contact or change power supply with higher power.

Q: What application conditions for IP20/IP55/IP65/IP66/IP67 LED strips?

1. IP20 non-waterproof products are used for indoor only, environment humidity lower than 55%.
2. IP55 waterproof products could bear short time little water spray, do not use for environment humidity higher than 80% for long time.
3. IP65 waterproof products could bear atmospheric environmental impacts and short time little water spray, do not use for environment humidity higher than 80% for long time.
4. IP66 nano-waterproof products could be used for outdoor damp environment but can not be soaked in water for long time, do not exposure at UV environment.
5. IP67 silicone extrusion with hollow inside waterproof products could be used for outdoor, could bear water gage no more than 1 meter for short time, need to do protection for anti-squeeze and anti-UV.