Main Features

1. 360° All-Around Uniform Lighting

- Round tube design with optimized internal light distribution eliminates dark spots.
- Delivers continuous, even illumination from every angle.
- Ideal for 3D lettering, outline lighting, and transparent or mirrored mounting surfaces.

2. Premium White Silicone Housing

- Made of high-quality silicone (not PVC or dyed rubber).
- Excellent UV resistance, anti-yellowing, and weather resistance (-20° C to +50° C).
- Pure white silicone in daylight, blends with white surfaces when off, invisible integration.

3. Flexible Round Tube Shape

- Soft and bendable, with a small minimum bending radius.
- Easily creates curves, waves, and custom shapes.
- Round profile provides a more consistent beam angle compared to flat strips, especially for side or vertical mounting.

4. Seamless Neon Glow – No Pixelation

- High-density LED chips combined with light-diffusing silicone create a smooth, continuous line of light.
- No visible dots or hot spots — looks like traditional glass neon, but lighter and safer.

5. Fully Sealed & Weatherproof (IP67)

- One-piece extruded silicone with a fully sealed structure.
- Rated IP67: dust-tight and protected against temporary immersion in water.
- Withstands rain, dust, salt spray, and UV exposure — perfect for outdoor facades, bridges, parks, and poolside installations.
- Available with V0/V1 flame-retardant rating for added safety.

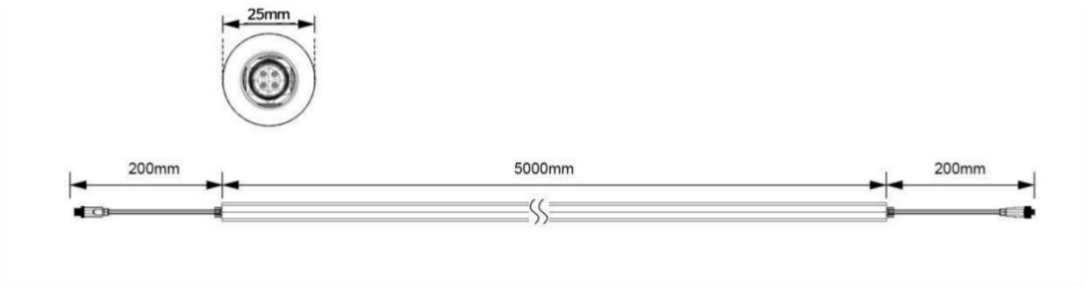
6. Low Voltage Operation (DC12V / DC24V)

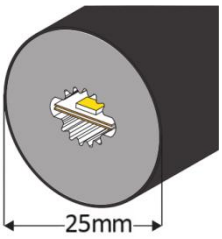
- Safe to touch, low heat output.
- Works with PWM dimmers and smart control systems for smooth brightness adjustment.

Main Application

- Building facade & architectural outline lighting
- 3D channel letters & logo signs
- Landscape & park decorative lighting
- Interior cove lighting & commercial displays
- Event, stage, & exhibition decoration
- Marine, poolside, & fountain accent lighting
- Furniture, cabinet, & automotive interior lighting

Product Dimension





Sectional View

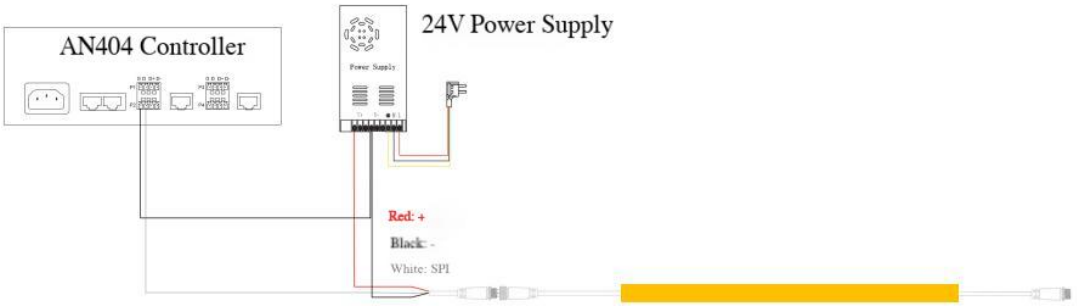
Waterproof Joint Detail

Product Parameters

Parameter	Min	Typical	Max
Product Color	-	White	-
Working Voltage	-	24V	-
Power	-	22W	-
Pixel	-	20pcs/m	-
LED Type	-	2835RGB	-
LED Quantity	-	240LEDs/m	-
IC	-	WS2811	-
Control Mode	-	SPI	-
Product Weight	-	0.5kgs/m	-
Emitting Color	-	RGB Full Color	-
Operating Temperature	-20℃	-	+50℃
Beam Angle	-	360 degree	-
IP Grade	-	IP67	-
Bending Radius	50mm	-	-
Warranty	-	3-5 years	-

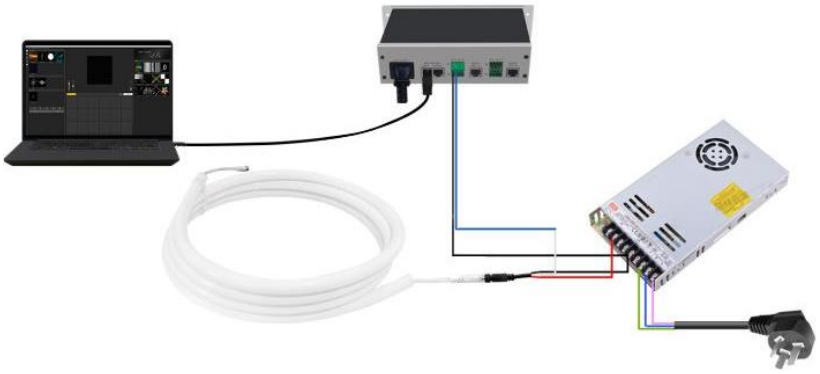
Control & Wiring

Connect to the controller: When the neon light strip is connected to the controller, and external power supply is required to power the light strip, the light strip and the controller share the negative pole.



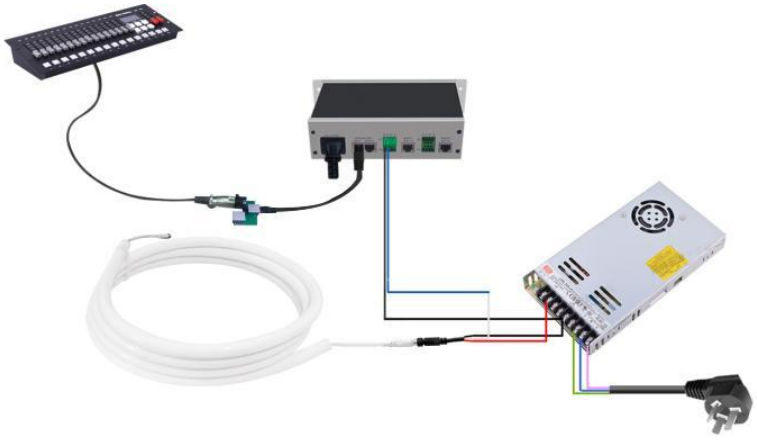
Wiring Diagram

Art-Net Mode: Software connects to the controller to control the neon light strip.



Art-Net Mode Wiring Diagram

DMX Mode: The console is connected to the controller to control the neon light strip.



DMX Mode Wiring Diagram

Precaution

- **Pre-reading Guide:** Before installation, be sure to read the product manual carefully to fully understand the installation process, safety regulations and operating details to avoid operational errors due to missing information.
- **Power Supply:** Use a power supply that matches the rated voltage of the product (DC24V). Do not connect a DC12V/DC24V light strip directly to an AC220V power supply. Doing so will instantly burn out the led lamp, causing damage to the device and posing a safety hazard.
- **Power Supply Method:** When the series length of the light strip exceeds 5 meters, the"simultaneous power supply at both ends" method must be adopted to effectively avoid problems such as uneven brightness and flickering at both ends of the light strip due to the voltage drop, ensuring the overall stable use effect.
- **Equipment Placement:** Switching power supplies and controllers must be placed separately and independently. Stacking them is strictly prohibited. Stacking will result in poor heat dissipation, potentially causing overheating, shortening the equipment's service life, and even creating safety risks.