

ARKE RGB/RGBW Installation instructions for neon lights

WARNING!

The following safety precautions are intended to prevent any injury or damage to other things, and may cause damage if the product violates precautions during use.

- Installation and inspection of the product must be carried out by a professional with an electrician's certificate.
- 2. Please use DC24V power supply. Please insure right positive and negative connection
- Do not use other power sources, such as AC220-240V.
- 3. All power cables should be with protection treatment. The power supply wiring should be insulated and
- 4. The product should not be covered thermal insulation material or inflammables, which may cause the product to malfunction or catch fire.

 5. The installation must be firm, without loosening, sagging, etc., and the product cannot be moved forcibly
- 6. For safety, do not look directly at the LED light source.
- Do not use as task illumination when in building construction.
- 8. LED module can't be changed.

PRECAUTIONS

Precautions for storage:

- storage temperature and humidity: 0°C-55°C 40-70%RH
- 2. Do not unwarp packaging during storage. Please place in the direction indicated by the carton. Do not stack heavy objects on the packing box.

 3. Please do not store the product under the following conditions:
- -High humidity -High temperature -confetti and dust -sunlight exposed -Chemicals such as strong acids, strong bases, solvents, etc

Precautions for installation and use:

- 1. Install in strict accordance with the instructions.
- temperature of product use: -10°C - $+40^{\circ}\text{C}$. Do not use under the following conditions:
- -High temperature -high humidity, -dust, -sun exposure, strong acid and strong alkali solvents.
- ->2000 meters high altitude, -high air pressure,
- -electromagnetic influence,
- -places that may cause vibration or fall
- 3. Random cutting, breakage, forcibly pull, twist, press and tag on the product is prohibited.
- 4. Quality issues caused by incorrect operation are not covered by the warranty

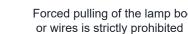


Image 5

Image 3

Image 1

Forced pulling of the lamp body It is strictly prohibited to twist the light strip in any direction.

It is strictly prohibited to apply

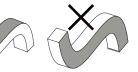
excessive pressure to the

Image 2

LED beads

Image 4

Image 6



No stepping or heavy pressure



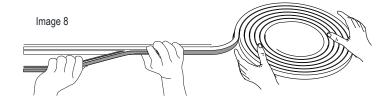
Top Bend LED Neon Strip

Side Bend LED Neon Strip

3.

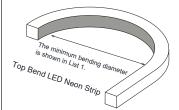


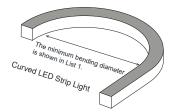
When installing, start from one direction and never install at both ends simultaneously.



When installing a light strip longer than 2 meters, it is recommended to have at least 2 people for installation or disassembly. Do not bend it.

Image 9





List of Minimum Bending Diameters for Various Specifications of Light Strips

Specifications (mm)	8x12	12x16	10x20	10x10	15x15	15x18	16x19	20x20
Minimum bending radius (mm)	100	220	220	100	260	260	260	350

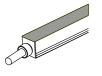
Schematic diagram of LED strip outlet method



Bottom line



Side outgoing line



2.

Direct line

Options

1.





Bottom outlet plug





Side outlet plug



Curved mounting groove

Direct line plug







Side outlet plug



PVC installation buckle PVC installation groove









Flat mounting

5.







Waterproof male and female connector, 4 core/5 core

I Fixed Type

1. Installation method of aluminum groove/bending groove













04



Confirm location

Confirm

location

01









Fix with

screws

Fix with

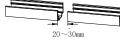
screws







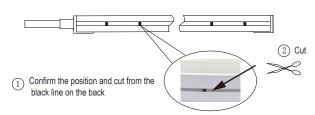
Ensure that the wall has sufficient support strength when splicing aluminum grooves, Suggest installation gap range of 20-30mm



6.

II Cut

Please cut as follows:



Attension, please:

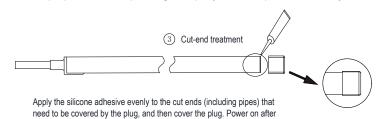
2 hours of injection.

After cutting, the cut position needs to be insulated and glued.

The protection level can only reach IP44.

After cutting the light strip, we need to use our matching plug for waterproof treatment and cutting

Improper rear waterproofing, company does not provide warranty



III Driver installation and wiring

1.RGB/RGBW strip light



DMX512 Signal Input Connector

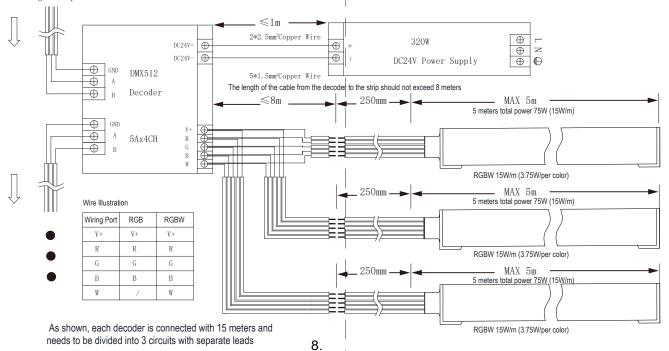
NOTES:

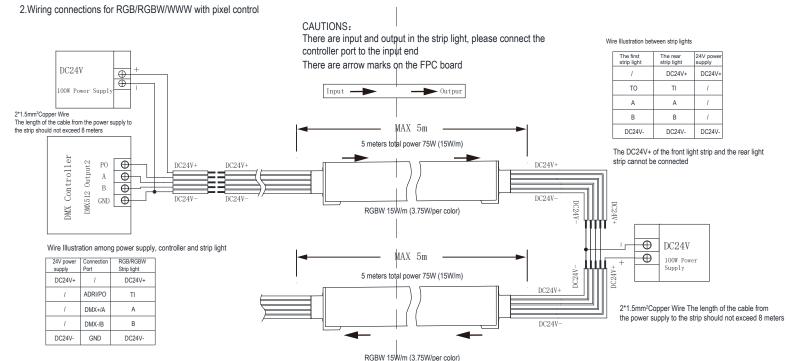
1. It is recommended to reserve 20% of the power supply. As shown, with 320W power supply, and 15W/m strip, the actual load is rounded to 15 meters instead of 17 meters. 2 . It is recommended to reserve 20% for the decoder. As shown, each channel of the decoder is 5A, and each channel can be loaded (24V*5A)*80%=96W For RGBW light with a single color of 3.75W, the maximum load can be 25 meters Since the decoder is used in conjunction with the 24V driver, the minimum meters of

the two should be taken, and the actual loading should be 15 meters 3. When connection length of strip is over 5 meters, it should be led from another the

4. When the connected length of the LED strip > 5 meters, it is necessary

to supply power at both the beginning and end to ensure uniform brightness





10.

1. Turn off the power before installing or handling the product.

3. Do not reverse polarity when connecting.

wire ends need to be waterproof and insulated.

power supplies cannot be used

2. Make sure the power supply and the strip light are firmly fixed

4. Double check all connections before turning on power and the exposed

5. It is recommended to reserve at least 20% of the power supply and non-isolated

7.

NOTES: 1. It is recommended to reserve 20% of the power supply. As shown, with 100 power

- supply, and 15W/m strip, the actual load is rounded to 5 meters 2. The maximum length of the light strip is 5 meters. If the length exceeds 5 meters, a separate DC24V power supply is required. For lights powered by different power supplies, DC24V+ cannot be connected together.

 3. The length of the light strip that the controller can carry is determined by the
- specifications of the controller
 4. Do not reverse input and output end when connecting
 5. When the connected length of the LED strip > 5 meters, it is necessary
- to supply power at both the beginning and end to ensure uniform brightness.

Maintenance

-to ensure the stable use of the product and prolong its service life, regular inspection and cleaning is needed

-Cleaning and inspection at least every 3 months with power off

Inspection Method

- -Whether driver and chips work well
- -Whether there is unusual smell, sound or heat.
- -Whether there are breakage, or looseness, etc. If an abnormality is found, please immediately power off and stop using, and eliminate the abnormality in time.

Cleaning

11.

-Gently wipe the product with a soft cloth.

12.

9.