



## Shenzhen Elisa LED Co., Ltd

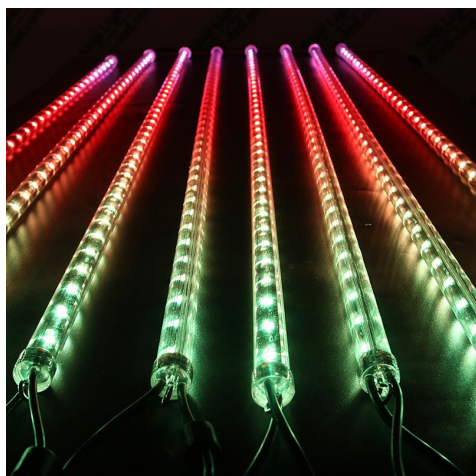
ADD: B807, Shiyan Micro Enterprise Science and Technology  
Innovation Center, Guanghui Road, Longteng Community, Shiyan  
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## PRODUCT SPECIFICATION

### D20/D30 SPI LED Meteor Tube

Model No.: XXA-TUBE-D20/D30-SPI





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## PRODUCT OVERVIEW

This series of 360-degree light-emitting digital meteor tubes is designed for outdoor decorative and landscape lighting applications. Each tube features individually addressable pixels using the UCS2903 IC, providing a dynamic flickering effect similar to shooting stars in the night sky. It is easy to install, IP65 waterproof, and supports a variety of control systems like Madrix, Bluetooth, mobile APP, and WIFI control. Ideal for hanging on branches, under eaves, and any other structures that can be hung. Available in 20mm or 30mm diameters with 1m or 2m lengths.

## MODEL COMPARISON

| Parameter           | 20mm Meteor Tube                        | 30mm Meteor Tube                        |
|---------------------|-----------------------------------------|-----------------------------------------|
| Port No.            | SJ-A10060-2903 (Std 20mm)               | SJ-A10060-2903 (30mm option)            |
| Tube Diameter       | 20mm                                    | 30mm                                    |
| Light Source        | SMD 5060 RGB LED                        | SMD 5050 RGB LED                        |
| LEDs/Meter          | 60 LEDs/m                               | 60 LEDs/m                               |
| IC Pixel/Meter      | 10 pixels/m                             | 10 pixels/m                             |
| Power Consumption   | 14.4W/m                                 | 14.4W/m                                 |
| Beam Angle          | 360°                                    | 360°                                    |
| Protocol            | UCS2903                                 | UCS2903                                 |
| Control             | Individual pixel control (10 per meter) | Individual pixel control (10 per meter) |
| Operating Voltage   | DC12V                                   | DC12V                                   |
| Waterproof Rating   | IP65                                    | IP65                                    |
| Standard Length     | 1m / 2m per pc workable                 | 1m / 2m per pc workable                 |
| Lifetime            | ≥50,000 hours                           | ≥50,000 hours                           |
| Housing Options     | Black PCB / Clear Tube                  | Black PCB / Clear Tube                  |
| Working Temperature | -20°C ~ +60°C                           | -20°C ~ +60°C                           |
| Storage Temperature | -30°C ~ +80°C                           | -30°C ~ +80°C                           |



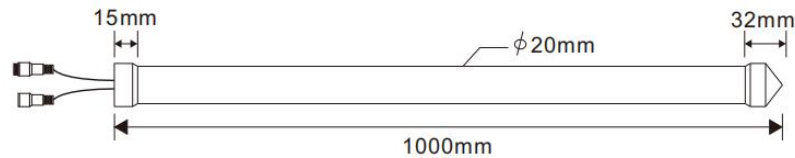
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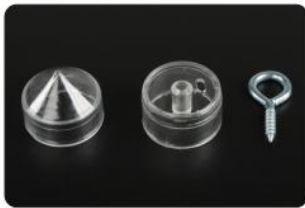
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## DIMENSIONS

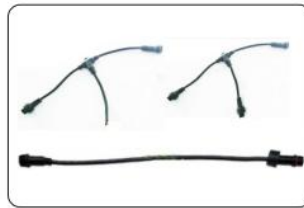
Dimension Details: Unit : mm (millimeter)



## ACCESSORIES



Caps and screws



T cable and Extension cable 1M/2M/ customized



Customizable length and diameter



Front and rear PCB boards



Different types of shells



Waterproof male and female connector cable

## FEATURES

### 1. Individual Pixel Control

Each meter contains 10 pixels, allowing independent color and effect control per pixel via the UCS2903 IC, creating the classic "meteor" shooting star effect.

### 2. 360° Full Beam Angle

The 360-degree light-emitting design uses a transparent tube shell to provide uniform illumination from all angles, eliminating dark spots.



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### 3. Dual Diameter Options

Available in 20mm and 30mm diameters to suit different visual requirements and hanging structures.

### 4. IP65 Waterproof

Fully sealed with waterproof male and female connector cables – suitable for outdoor use in rain and snow.

### 5. Flexible Configuration

Standard lengths of 1m and 2m are workable. The extension cables and T-cables are customizable in length.

### 6. Robust Connector System

Equipped with waterproof male/female connectors to ensure stable connections in outdoor environments.

### 7. Wide Application Compatibility

Compatible with Madrix, Bluetooth, Mobile APP, WIFI, and other mainstream control systems for seamless integration.

### 8. High Performance

High brightness with SMD 5050 LEDs, low power consumption, long lifespan (50,000+ hours), low voltage DC12V operation, and low lumen depreciation.

## APPLICATIONS

Landscape lighting decoration/ Hanging on branches and under eaves / Music festivals and concerts/ Night bars, clubs, and KTV / Shopping malls and retail displays/ Amusement parks and theme parks/ Street decorations and window displays/ Wedding and event decor/ Architectural accent lighting





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## CUSTOMIZATION OPTIONS

Tube diameter (20mm / 30mm)  
String length (1m / 2m / Customized)  
Extension cable length (1M / 2M / Customized)  
Shell types (Clear tube, Milky tube, etc.)  
Wire color and length

## CERTIFICATIONS & COMPLIANCE

| Parameter             | Specification |
|-----------------------|---------------|
| Lifetime              | ≥50,000 hours |
| Waterproof Rating     | IP65          |
| Operating Temperature | -20°C ~ +60°C |
| Storage Temperature   | -30°C ~ +80°C |
| Certifications        | CE, RoHS      |

## SYSTEM SCHEMATIC

Controller (Madrix/SD/DMX/Artnet/APP) → Power Supply (DC12V) → LED  
Meteor Tube String (XXA-TUBE-D20/D30-SPI)  
Maximum run length dependent on power supply capacity - consult technical support.

