



Shenzhen Elisa LED Co., Ltd

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Innovation Center, Guanghui Road, Longteng Community, Shiyan
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PRODUCT SPECIFICATION

26mm LED Pixel Light

Model No.: XXA-263/266





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PRODUCT OVERVIEW

This series of 26mm digital LED pixel lights features a built-in high-performance IC chip and is available in both DC24V and DC12V versions. As programmable LED units, they are suitable for both indoor and outdoor applications. Each 26mm pixel module contains either three SMD5050 RGB LEDs or six ultra-bright SMD3535 LEDs, all controlled by a single IC chip, enabling a wide range of dynamic color-changing effects. The individual pixel units operate independently, and wire lengths can be customized. The products offer an IP65/67 waterproof rating and come equipped with either JST SM connectors or 3-pin waterproof connectors. They are ideal for use in amusement rides, architectural decorative lighting, and stage lighting.

MODEL COMPARISON

Diamator	26 mm
Drill Hole Diameter	19 mm / 26 mm
LED Qty	3 LEDs / 6 LEDs
Operating Voltage	DC24V / DC12V (Optional)
Power Consumption	0.72W / 1.44W
Shell Style	Raindrop Style / Dome Style
LED Type	SMD3535/5050 RGB LED
Beam Angle	140°
IC Chip	UCS1903 / UCS2903
Waterproof Rating	IP65 / IP67
Connector Type	3-pin M/F connector
Working Temperature	-20°C ~ +60°C
Storage Temperature	-30°C ~ +80°C

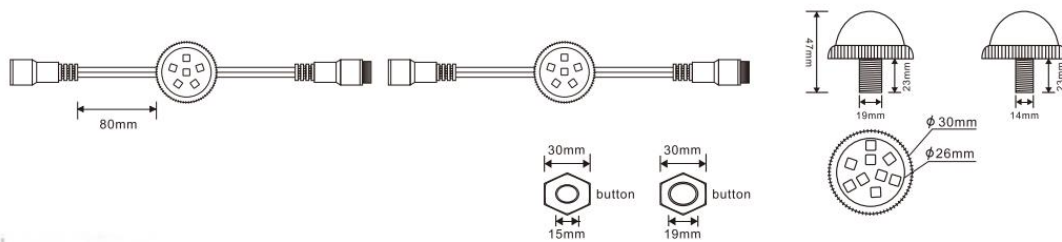


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DIMENSIONS



ELECTRICAL & CONTROL

Parameter	Specification
Control Type	SD controller, DMX controller, Artnet, etc.
Control Features	1 IC per module – individually addressable
Connector Type	3-pin M/F connector
Power Supply	DC24V / DC12V (required)
Power Consumption	0.72W or 1.44W per module

FEATURES

1. Individually Addressable

Each pixel light is controlled by a dedicated IC chip (UCS1903/UCS2903), allowing independent color and effect control per module.

2. Multiple Shell Styles

Available in Raindrop and Dome styles to meet different aesthetic and installation requirements.

3. IP65 / IP67 Waterproof

Fully sealed housing ensures reliable performance in outdoor and harsh environments.



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4. Flexible Wiring

Each pixel light is separated individually, and the wire length is customizable for specific project layouts.

5. Low Voltage Safety

DC24V or DC12V low voltage input. Do not use higher than 25V (for 24V version), otherwise the pixel will be destroyed.

6. High Performance

Extremely long lifespan and low power consumption. High brightness with SMD3535/5050 RGB LEDs and a wide 140° beam angle.

INSTALLATION ACCESSORIES



Shell



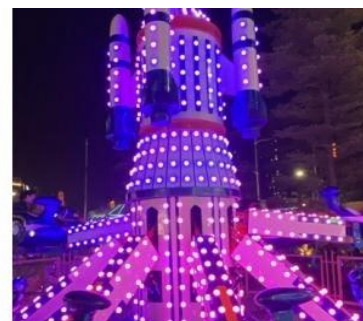
PCB Board



3Pin Connector

APPLICATIONS

Amusement park rides and carousels/ Outdoor and indoor architectural lighting/ Stage and event lighting/ Bar, KTV, and club decoration/ Holiday and festival light displays/ Commercial signage and accents





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IMPORTANT INSTALLATION NOTES

Consideration	Recommendation
Power Supply	Use a DC24V or DC12V power supply. Do not exceed 25V (for 24V version) or short circuit, as this will destroy the pixel.
Drill Hole	Ensure the drill hole diameter matches the 19mm or 26mm requirement for proper fit.
Connectors	Use 3-pin M/F connectors for stable connections. Ensure proper waterproofing at joints.
Controller	Compatible with SD, DMX, and Artnet controllers.

SYSTEM SCHEMATIC

Controller → DC24V/12V Power Supply → LED Pixel Light String (XXA-263/266)

Maximum run length dependent on power supply capacity - consult technical support.

