Shenzhen Elisa LED Co., Ltd

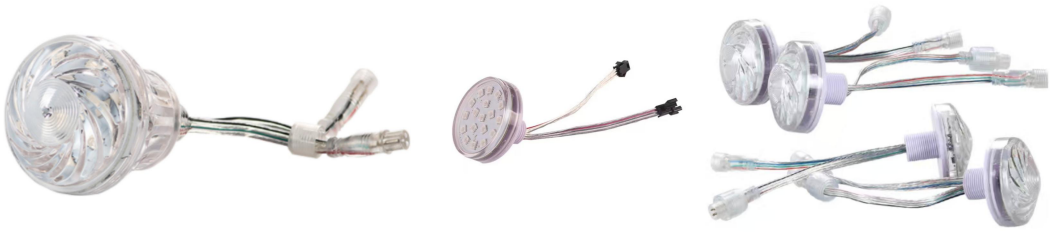
ADD: B807, Shiyan Micro Enterprise Science and Technology Innovation Center, Guanghui Road, Longteng Community, Shiyan Street, Baoan District, Shenzhen, 518108

Email: xuanan@elisaled.com Mob: 86 158 2078 1375

PRODUCT SPECIFICATION

60mm LED Pixel Light

Model No.: XXA-6016/6018/6018S-360D



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PRODUCT OVERVIEW

This series of 45mm digital LED pixel lights is designed for both outdoor and indoor applications, widely used in amusement parks, shopping malls, streets, billboards, and window displays. These addressable lights can be set to any color or animated with dynamic effects like running water, chasing, and scanning. The modules combine a UV-resistant, thermostable PVC shell with a high-brightness PCB board. They feature IP65/IP66/IP67 waterproofing with silicone glue protection, are easy to install with a 19mm drill hole, and operate on safe low-voltage DC24V/12V power.

MODEL COMPARISON

Parameter	XXA-6016	XXA-6018	XXA-6018S-360D
Light Source	16 PCS SMD5050 RGB LED	16 PCS SMD5050 RGB LED	18 PCS SMD5050 RGB LED (front 12LEDs, back 6LEDs)
Beam Angle	160°	160°	300°
Operating Voltage	DC24V	DC24V	DC24V
Power Consumption	3.84W (max)	4.32W (max)	4.32W (max)
Module Diameter	60 mm	60 mm	60 mm
Drill Hole Diameter	19 mm (optional)	19 mm (optional)	19 mm (optional)
IC Chip	UCS2903 / UCS1903	GS8206 / UCS2903	GS8206 / UCS2903
Cover Type	Transparent (Spiral / Linear / Flat)	Transparent (Spiral / Linear / Flat)	Transparent (Spiral / Linear / Flat)
Waterproof Rating	IP65 / IP67	IP65 / IP67	IP65 / IP67
Warranty	2 Years	2 Years	2 Years
Working Temperature	-20°C ~ +60°C	-20°C ~ +50°C	-20°C ~ +50°C
Storage Temperature	-30°C ~ +80°C	-30°C ~ +70°C	-30°C ~ +70°C

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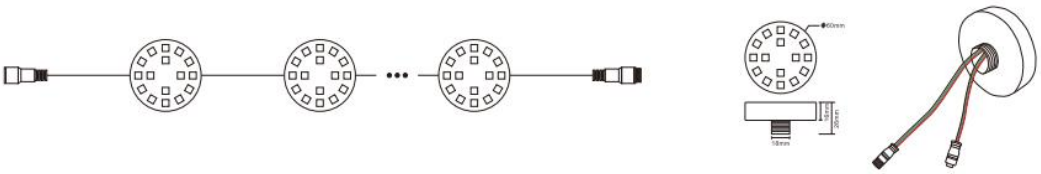
DIMENSIONS

XXA-6016F/XXA-6018F



XXA-6018S-360D

ELECTRICAL & CONTROL

Parameter	Specification
Control Type	SD controller, DMX controller, Artnet, etc.
Control Features	Individually addressable (1 IC per piece); supports dynamic color changing and animation
Connector Type	3-pin / 4-pin JST female and male connectors / waterproof connectors (DAT, DC24V+, GND)
Power Supply	DC24V (required)
Power Consumption	3.84W / 4.32W (depending on model)

FEATURES

1. Individually Addressable

Each pixel light is controlled by a dedicated IC chip (UCS2903 / UCS1903 / GS8206), allowing independent color and effect control per module.

2. Robust PVC Shell

Constructed with a thermostable, cold-resistant, and UV-resistant PVC shell combined with a high-brightness PCB board for durability.

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3. IP65 / IP67 Waterproof
Features silicone glue or adhesive waterproofing protection for reliable outdoor and indoor performance.

4. Easy Installation
Standard 19mm drill hole diameter for quick mounting. Aluminum grooves can be customized in color and size.

5. High Performance
High brightness, low power dissipation, long lifespan, low voltage, and low light decline.

6. Optional Covers
Available with multiple transparent cover styles (Spiral / Linear / Flat) to meet different light distribution needs.

INSTALLATION ACCESSORIES

Shell and nut

Two types of caps

PCB board(front 12LEDs,back 6LEDs)

Waterproof and non waterproof connector

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APPLICATIONS

Amusement park rides and carousels
Shopping malls and retail displays
Street and billboard lighting
Window displays and commercial signage
Bar, KTV, and club decoration

IMPORTANT INSTALLATION NOTES

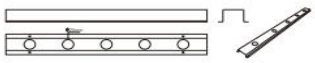
Consideration	Recommendation
Power Supply	Use a DC24V power supply. Do not exceed 25V or short circuit, as this will burn the pixel.
Drill Hole	Ensure the drill hole diameter is 19mm for proper fit.
Mounting	First insert into the aluminum groove, then screw onto the wall.
Connectors	Use 3-pin or 4-pin JST/waterproof connectors (DAT, DC24V+, GND). Ensure proper waterproofing at joints.

Installation Details: Unit : mm (millimeter)

Install hole diameter :19mm

First insert the aluminum groove and then screw it onto the wall

The color and size of the aluminum groove can be customized



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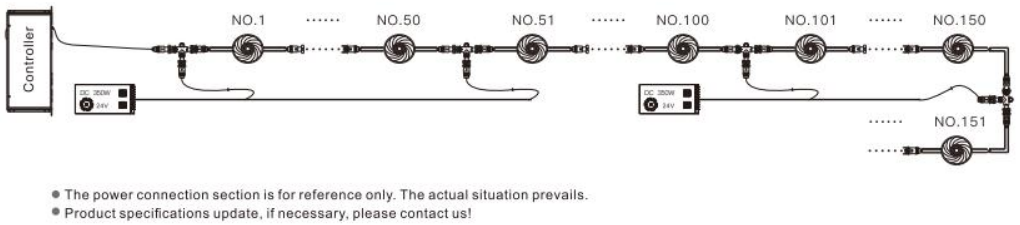
SYSTEM SCHEMATIC

Controller → DC24V Power Supply → LED Pixel Light String (XXA-6016 / XXA-6018 / XXA-6018S-360D)

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



- The power connection section is for reference only. The actual situation prevails.
- Product specifications update, if necessary, please contact us!