



Shenzhen Elisa LED Co., Ltd

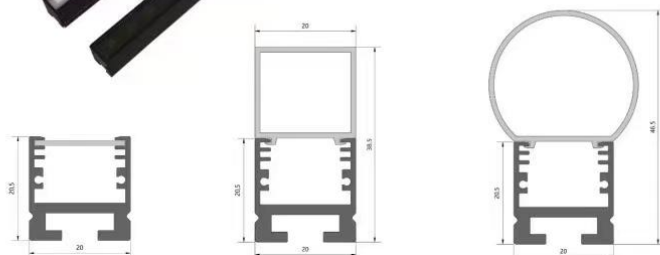
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PRODUCT SPECIFICATION

96LEDs/m DMX512 5050 RGB

Model No.: XXA-BAR-96D512





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PRODUCT OVERVIEW

This series of high-performance, digitally addressable rigid bars is designed for commercial facades, landscape lighting, and architectural accents. Each bar features 96 SMD3535 RGB LEDs per meter and operates on the standard DMX512 protocol with a UCS512 IC. Housed in a robust IP68 waterproof black aluminum casing with PU glue injection, this linear light delivers vibrant, controllable color in a durable, low-voltage (DC24V) package. It is ideal for wall washing, building outlines, and stage or commercial applications.

MODEL COMPARISON

(Note: Specifications below reflect the standard configuration for this model.)

Parameter	Standard Specification
Part No:	XXA-BAR-96D512
Aluminum Profile Dimensions	L1000 × W20 × H20.5 mm
Light Source	SMD3535 RGB LED
LED Density	96 LEDs/m
Pixel Density	16 pixels/m (1 IC controls 6 LEDs)
Beam Angle	180°
IC Chip	UCS512 (Standard DMX512)
Control	Standard DMX512 protocol (Requires DMX code writer for addressing)
Operating Voltage	DC24V
Power Consumption	23W/m (max)
Waterproof Rating	IP68 (PU glue injection)
Housing Material	Black Aluminum
Standard Lengths	0.5m, 1m, 1.5m, 2m
Working Temperature	-20°C ~ +60°C
Storage Temperature	-30°C ~ +80°C
Certifications	CE, RoHS



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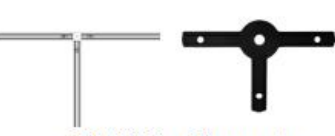
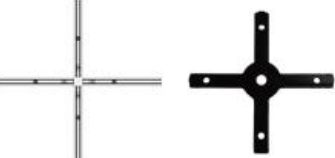
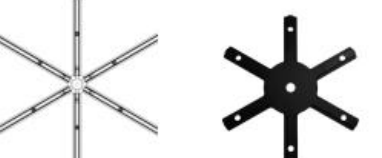
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DIMENSIONS



ACCESSORIES

Accessories installation	
 <p>Multiple 90°L mode connector</p>	 <p>Multiple 120°L mode connector</p>
 <p>Multiple T mode connector</p>	 <p>Multiple Y mode connector</p>
 <p>Multiple + mode connector</p>	 <p>Multiple Hexagon connector</p>
 <p>Linear connector</p>	



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FEATURES

1. Standard DMX512 Protocol

The built-in UCS512 IC supports the industry-standard DMX512 protocol, ensuring

seamless integration with Artnet DMX controllers and Madrix, reliable long-distance signal transmission, and compatibility with existing systems.

2. High Density – 96 LEDs/m, 16 Pixels/m

With 96 LEDs per meter organized into 16 addressable pixels, this light delivers vibrant, uniform color, smooth animations, and excellent resolution for detailed lighting effects.

3. 180° Beam Angle

The 180° beam angle ensures wide, uniform light distribution, making it ideal for wall washing, building outlines, and landscape lighting.

4. IP68 Waterproof

The IP68 waterproof rating (achieved through high-quality PU glue injection into the aluminum housing) provides full protection against dust and prolonged submersion, ensuring reliable performance in harsh outdoor environments.

5. Robust Aluminum Housing

The black aluminum housing provides excellent heat dissipation to extend LED lifespan, structural rigidity to maintain straight lines, and a sleek, professional appearance.

6. Flexible Installation

Available in 0.5m, 1m, 1.5m, and 2m lengths. Choose from an aluminum housing with or without a PVC cover. Each bar includes 2 movable aluminum holders for secure installation.

7. Low Voltage DC24V

Operating at DC24V provides enhanced safety for outdoor and wet locations, reduced voltage drop for longer cable runs, and energy efficiency.



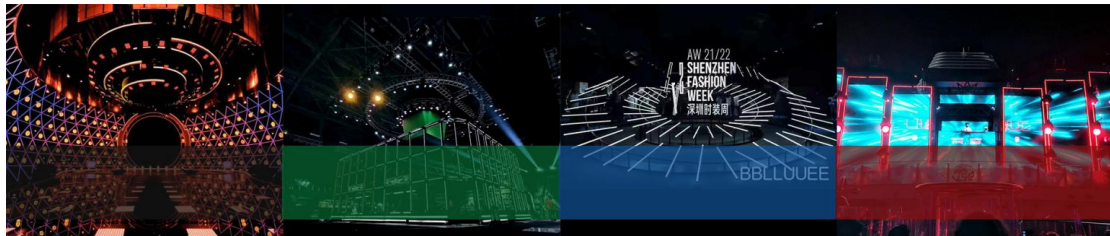
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APPLICATIONS

Commercial facades (IP68 waterproof, vibrant DMX control)
Landscape lighting (180° beam, durable aluminum housing)
Architectural accents (High density, 16 pixels/m)
Stage, KTV, DJ, and bars (Professional DMX512 integration)
Hotels and indoor decoration (Low voltage, sleek design)



IMPORTANT INSTALLATION NOTES

Consideration	Recommendation
Power Supply	Use a DC24V power supply. Do not exceed 25V or short-circuit, as this may damage the light.
Power Injection	Recommend powering every 5 meters of connected bars.
Addressing	The bar is not auto-addressable; it requires a DMX code writer to set the address.
Cables	T-cable connectors for power feeding are not included and must be purchased separately.

CERTIFICATIONS & COMPLIANCE

Parameter	Specification
Waterproof Rating	IP68
Operating Temperature	-20°C ~ +60°C
Storage Temperature	-30°C ~ +80°C
Certifications	CE, RoHS