

LED Bar User Manual

Overview

Thank you for selecting our premium LED bar, designed with 26 high-efficiency LEDs per unit, offering a remarkable density of approximately 92 LEDs per meter. Engineered for versatility and performance in a wide range of lighting applications, this LED bar comes equipped with convenient mounting options and robust connectivity features. Read on for comprehensive guidance on installation, operation, maintenance, and safety of your new LED lighting solution.

Specifications

LED Type: WS2812B

Number of LEDs: 26 per bar

Operating Voltage Range: 12V (minimum) to 32V (maximum), with 24V as the nominal operating voltage when used with the Lumin LED controller

Logic Level for DIN/DOUT: 5V

Maximum Current Input: 5A

Power Consumption: 1W per LED bar, with each additional daisy-chained bar adding 1W to the total power load

Luminous Output: Approximately 100 lumens

Dimmable: Yes, via the Lumin LED controller

Certifications: CE and RoHS

Estimated Lifetime: Approximately 5000 hours

Daisy Chain Capability: Up to 23 units, supporting up to 600 LEDs in one continuous string
Installation

Mounting:

Securely attach the LED bar using the provided screw holes. Ensure the mounting surface is stable, free from moisture, and away from heat sources.

Connecting Power and Signal:

Utilize the included 6-pin to 3-pin cable to connect the LED bar to the Lumin LED controller for power and signal.

For daisy-chaining multiple LED bars, employ the included 3-pin to 3-pin cable, connecting the output of one bar to the input of the next.

Configuration: Adjust color and brightness settings using the Lumin LED controller software, offering extensive customization options for your lighting needs.

Operation

The LED bar necessitates the Lumin LED controller for operation, providing essential control signals.

Dimmability is managed through the Lumin LED controller, enabling brightness adjustments to suit your preferences.

Colors are fully customizable via the Lumin software, allowing for a diverse array of lighting effects and ambiance settings.

Safety Information

Avoid exceeding the specified voltage and current ratings to mitigate the risk of damage or fire.

Prevent short-circuiting by ensuring all electrical connections are secure and properly insulated before power is applied.

Only use the cables provided with your LED bar to ensure compatibility and safety.

Regularly inspect your LED bar and cables for signs of damage or wear. Cease use of any compromised components immediately.

Comply with all applicable local safety regulations and standards during installation and use.

Maintenance and Warranty

- Conduct periodic inspections for damage or wear. Replace any compromised components promptly.
- Clean with a dry or slightly damp cloth. Avoid the use of harsh cleaning agents.

The product includes a 1-year warranty covering free replacement for defects under normal use, assuming no extreme damage is found. Warranty claims require customer-provided photos for verification.

Note:

The total power consumption for a daisy-chained setup increases by 1W for each added LED bar. Ensure the combined load does not surpass the capacity of your power supply or the Lumin LED controller's specifications.

By adhering to these guidelines, you can enjoy a reliable, efficient, and customizable lighting experience with your new LED bar. For additional information or support, please contact our customer service.

Date	change log
3-02-2024	document created
3-02-2024	updated led type, updated file to v1.1