



3-Channel Smart RGB LED Controller, 144W, Wi-Fi/IR Remote, 12-24V DC

- Controls up to 144W of RGB LED lighting load
- Accepts 12-24V DC input for flexible system integration
- Wi-Fi enabled with Alexa and Google Home compatibility
- Included IR remote for local, app-independent operation
- Rated for 0-40°C ambient operating temperature
- Supports connected LED loads rated to 50,000 hours

OVERVIEW

The C-3-WF144 is a 3-channel smart RGB LED controller designed for commercial and residential RGB lighting installations requiring centralized, programmable control. It supports Wi-Fi integration with Amazon Alexa and Google Home platforms, as well as an included IR remote, making it suitable for retrofit and new-construction applications where flexible control is a priority.

The controller handles up to 144W of RGB LED load and accepts a 12-24V DC input, with an ambient operating range of 0-40°C and an LED lifetime rating of 50,000 hours on the connected load. The companion app provides access to approximately 16 million color combinations, a music-sync mode for dynamic visual effects, and timer scheduling for automated on/off control.

SPECIFICATIONS

OPTICAL

LED Lifetime	50,000 h
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ELECTRICAL

Operating Voltage	24 V
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Wattage	144 W
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ENVIRONMENTAL

Ambient Operating Temperature	0-40 °C 32-104 °F
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ORDERING

Warranty	1 y
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APPLICATIONS

Commercial RGB accent lighting systems

Retail and hospitality color-changing displays

Residential smart home lighting installations

Retrofit upgrades for existing RGB LED strips

New-construction lighting control integration

PROVENANCE — REVIEW COPY ONLY

slug	value	source	confidence
led_lifetime_h	50,000 h	db	high
operating_voltage	24 V	db	high
wattage	144 W	db	high
ambient_temp_c	0-40 °C	db	high
warranty_years	1 y	db	high

Specifications subject to change without notice.