PL-220SPT-EZN

Overview

The LED Fresnel is a professional high-output lighting fixture designed for stage, studio, broadcast, and video-production applications. Featuring a 200W high-power COB LED available in 3200K Warm White and 5600K Cool White, the fixture delivers high-quality, consistent illumination with CRI ≥95 for accurate color reproduction and natural skin tones.

Its precision Fresnel optical system provides controlled and uniform light output, while the manual zoom with optional electronic zoom enables flexible beam-angle adjustment for accurate beam control. Advanced 16-bit dimming, flicker-free PWM, intelligent thermal management, and robust aluminum-alloy construction ensure reliable performance across professional lighting environments.

The fixture supports 4 CH DMX control via DMX512/1990, digital menu control, and PowerCon Link Through for efficient system integration and power distribution.

Manufactured under an ISO 9001:2015 certified Quality Management System, ensuring controlled manufacturing processes and consistent product quality.

Key Feature

- Constant Current LED Driver – Ensures stable current output, consistent brightness, and extended LED lifetime.
- High-Precision Fresnel Optical System – Delivers high optical efficiency with smooth, uniform beam projection.
- High Color Rendering – CRI ≥95 provides accurate color reproduction and natural skin tones.
- CCT Consistency ±100K – Ensures consistent white-light output across multiple fixtures.
- Excellent Color Uniformity – Provides smooth and even illumination with uniform color distribution.
- Manual Zoom with Optional Electronic Zoom – Enables flexible and precise beam-angle control.
- 16-bit Linear Dimming (0–100%) – Provides smooth and precise intensity control without visible stepping.
- Flicker-Free PWM ≥2kHz–25kHz – Minimizes flicker for broadcast, television, and high-speed camera applications.
- Instant On / No Warm-Up – Reaches full brightness immediately after power-on.
- Intelligent Temperature-Controlled Cooling – Optimizes thermal performance and protects the fixture during continuous operation.
- Operating Noise / Quiet Operation – Minimizes fan noise for studio, broadcast, and video-production environments.
- Automatic Over-Temperature Protection – Protects the fixture against overheating during continuous operation.
- Energy Efficiency / High Luminous Efficiency – Maximizes useful light output while minimizing power consumption.
- Power Factor ≥0.95 – Improves power efficiency and reduces energy loss.
- MTBF ≥20,000 Hours – Ensures reliable long-term professional operation.
- DMX512/1990 Control – Supports 4 CH DMX operation for professional lighting systems.
- Digital Display & Intuitive Menu – Provides easy fixture configuration and operation.
- PowerCon Link Through – Enables end-to-end power linking of multiple fixtures.
- Adjustable Mounting Yoke & 4-Leaf Rotatable Barn Door – Provides flexible positioning and precise beam shaping.
- Durable Aluminum-Alloy Housing – Black anodized finish enhances durability and professional appearance.
- IP20 Protection – Designed for professional indoor applications.
- ISO 9001:2015 Quality Management: Manufactured under an ISO 9001:2015 certified Quality Management System for consistent manufacturing and quality control.



Prolite INT'L Electron Limited
45-51 Chatham Road South Tsim Sha Tsui, Hongkong
www.prolite.hk
info@prolite.hk / sales@prolite.hk

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Specification

Specification	Details
Product Type	Professional LED Fresnel
Application	Stage, Studio, Broadcast, and Video Production
Light Source	200W High-Power COB LED – Warm White 3200K / Cool White 5600K
LED Driver	Constant Current LED Driver
Optical System	High-Precision Fresnel Optical Lens
Color Temperature (CCT)	3200K / 5600K
Color Rendering Index (CRI)	≥95, providing accurate color reproduction and natural skin
CCT Consistency	±100K
Color Uniformity	Excellent Color Uniformity
LED Lifetime	60,000–100,000 Hours
MTBF	≥20,000 Hours
Zoom Mode	Manual Zoom (Optional Electronic Zoom)
Zoom Control	Smooth motorized beam-angle adjustment for precise
Dimming	16-bit Linear Dimming (0–100%)
Flicker-Free PWM	≥2kHz–25kHz
Startup Time	Instant On
Warm-Up Time	No Warm-Up Required
Cooling System	Intelligent Temperature-Controlled Fan

Specification	Details
Cooling System	Intelligent Temperature-Controlled Fan
Thermal Protection	Automatic Over-Temperature Protection
Operating Noise	Quiet Operation; suitable for studio, broadcast, and video-
DMX Channels	4 CH
DMX Protocol	DMX512 / 1990 Standard
DMX Connections	3-pin XLR In/Out
Control Features	Digital Display with Intuitive and Easy-to-Use Menu
Power Linking	PowerCon Link Through; supports end-to-end power
Mounting System	Adjustable Mounting Yoke with 4-Leaf Rotatable Barn
Beam Shaping	4-Leaf Rotatable Barn Door for Precise Beam Shaping
Housing Material	Durable Aluminum Alloy with Black Anodized Finish
Energy Efficiency	High Luminous Efficiency with Optimized Power
Power Supply	AC 90–260V Auto-Sensing, 50/60Hz
Power Consumption	Max. 200W
Power Factor	≥0.95
IP Rating	IP20 (Indoor Use Only)
Dimensions (L × W × H)	486 × 276 × 250 mm
Weight	8.5 kg

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