PL-201SPT-ZN

Overview

The Professional LED Fresnel Luminaire is a high-performance stage lighting fixture designed for professional theatre, studio, broadcast, event, and performance applications. Featuring a 200W COB LED light source with Warm White / Cool White options, the fixture delivers high-quality soft beam output with excellent color rendering and consistent illumination.

Equipped with a high-precision Fresnel optical system and adjustable zoom function, the fixture provides flexible beam control for different lighting distances and stage requirements. The Fresnel soft beam design ensures smooth light distribution, uniform output, and professional-quality illumination for key lighting applications.

The fixture supports 3200K / 5600K color temperature, CRI ≥97, and CCT consistency ±75K, providing accurate color reproduction and stable color performance. The 16-bit linear dimming system from 0–100% enables smooth brightness adjustment, while PWM frequency ≥2kHz–25kHz ensures flicker-free operation for professional camera, broadcast, and livestream environments.

Designed for reliable long-term operation, the fixture integrates a constant current LED driver, intelligent temperature-controlled cooling system, and automatic over-temperature protection. Supporting DMX512 (1990 Standard) control with multiple DMX modes, the LED Fresnel Luminaire offers professional flexibility and seamless integration into modern lighting systems.



Key Feature

- High-Performance LED Source
- 200W COB LED with Warm White / Cool White options.
- Optional LED versions: 60W / 100W / 200W LED or 2000W Halogen.
- High brightness output with excellent color quality.
- Professional Fresnel Optical System
- Fresnel soft beam design with smooth and uniform illumination.
- High-precision optical lens for accurate beam shaping.
- Manual zoom adjustment for flexible beam control.
- Superior Color & Dimming Performance
- Color temperature: 3200K / 5600K.
- CRI ≥97 and CCT Consistency ±75K for stable color reproduction.
- 16-bit linear dimming (0–100%) with PWM ≥2kHz–25kHz flicker-free operation.
- Beam Control & Reliability
- 4-leaf rotating barn doors for precise light shaping.
- Constant current LED driver with intelligent temperature-controlled cooling.
- Automatic over-temperature protection for stable operation.
- Professional Control
- DMX512 (1990 Standard) control with DMX512 / Auto / Master-Slave modes.
- DMX 2 / 3 CH, 3-pin XLR In/Out, digital display.
- Yoke mounting bracket, IP20 indoor protection.

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Specification

Specification	Details
Fixture Type	LED Fresnel Luminaire
Power Supply	AC 90–260V, 50/60Hz (Auto Sensing)
Power Consumption	200W
Light Source	200W COB LED (Warm White / Cool White) Optional: 60W / 100W / 200W LED or 2000W Halogen
LED Lifetime	60,000–100,000 Hours
Color Temperature	3200K / 5600K
CRI (Color Rendering Index)	≥97
CCT Consistency	±75K
MTBF	≥20,000 Hours
Beam Type	Fresnel Soft Beam
Optical System	High-Precision Optical Lens
Color Uniformity	Excellent Color Uniformity
Zoom	Manual Zoom Optional Electronic Zoom
Barn Doors	4-Leaf Rotating Barn Doors
Dimming	16-bit Linear Dimming, 0–100%
Flicker-Free PWM	≥2kHz–25kHz
Strobe	0–20 flashes/sec
LED Driver	Constant Current LED Driver

Specification	Details
Startup Time	Instant On
Warm-up Time	No Warm-up Required
Cooling System	Intelligent Temperature-Controlled Fan
Thermal Protection	Automatic Over-Temperature Protection
Warm-up Time	No Warm-up Required
Cooling System	Intelligent Temperature-Controlled Fan
Thermal Protection	Automatic Over-Temperature Protection
Control Protocol	DMX512 (1990 Standard)
Control Modes	DMX512 / Auto / Master-Slave
DMX Channels	2 / 3 CH
DMX Connection	DMX 3-pin XLR In/Out
Display	Digital Display
Mounting	Yoke Mounting Bracket
IP Rating	IP20 (Indoor Use)
Dimensions/Weight	486 × 276 × 250 mm/8.5 kg

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