

PL-M-300LB

► Overview

The PL-M-300LB Moving Head LED Beam is a professional lighting fixture designed to deliver powerful performance and reliable operation for indoor stage, event, and studio applications. Featuring a 300W white LED light source with a lifespan of up to 50,000 hours (L70), the fixture ensures consistent brightness and long-term durability.

Equipped with a motorized zoom range of 4° to 37°, it provides flexible beam control from narrow, high-intensity beams to wider coverage. The advanced multi-layer optical system delivers excellent beam uniformity with minimal distortion, producing clean and sharp projections.

The fixture supports a range of creative effects including static and rotating gobos, as well as prism effects, allowing dynamic beam shaping with both circular and geometric patterns. With 16-bit smooth dimming, multiple dimming curves, and flicker-free operation, it guarantees seamless performance for both live events and camera applications.

Control is made easy through DMX512 and RDM protocols, with multiple operating modes including DMX, Auto, Master-Slave, and Sound activation. Designed for practicality, the unit features a backlit LCD display, PowerCon and XLR connectivity, a low-noise cooling system, and a universal AC 90–260V power supply.

Built for indoor use with an IP20 rating, the PL-M-300LB combines performance, precision, and reliability, making it an ideal choice for professional lighting environments.

► Feature

- 300W White LED – lifespan ≥ 50,000 hours (L70)
- Motorized Zoom 4°–37° – flexible beam control
- Advanced Optical System – multi-layer lens, high uniformity, low distortion
- Gobo & Prism Effects – static/rotating gobos with prism effects
- Precision Beam Shaping – circular and geometric projections
- 16-bit Smooth Dimmer – 0–100% with multiple dimming curves
- Strobe up to 13 Hz – random and pulse modes
- 16-bit Pan/Tilt – smooth and accurate movement.
- Flicker-Free Operation – ideal for camera applications
- DMX512 / RDM Control – professional lighting protocols
- Multiple Modes – DMX, Auto, Master-Slave, Sound Active
- Backlit LCD Display – easy operation
- PowerCon & XLR Connectivity – reliable connections
- Universal Power Supply – AC 90–260V, 50/60Hz
- Low-Noise Cooling System – quiet operation
- IP20 Rated – indoor use.



PL-M-300LB

Product Specification

Specification	Details	Specification	Details
Light Source	300W White LED, lifespan ≥ 50,000 hours (L70)	Control Protocols	DMX512 / RDM
LED Technology	High-power LED module with long-term stability	Operating Modes	DMX / Auto / Master-Slave / Sound Active
Optical System	Multi-layer lens system, high uniformity, low distortion	Display	Backlit LCD display
Optical Performance	High center intensity with sharp beam edges	User Interface	RDM-supported remote setup & diagnostics
Beam Angle (Zoom)	4° – 37°, motorized	Power Connection	PowerCon In/Out
Effects	Static/rotating gobo, prism	Signal Connection	3-pin / 5-pin XLR (optional)
Prism	Multi-facet prism for beam splitting	Power Supply	AC 90–260V, 50/60Hz
Frost	Yes, for soft wash effect	Power Consumption	~450W
Beam Shaping	Circular / geometric projections via gobo	Cooling System	Low-noise cooling system
Dimmer	0–100%, 16-bit, multiple dimming curves	Operating Noise	Optimized for stage and studio environments
Strobe	≤ 13 Hz, random/pulse modes	Ingress Protection	IP20 (indoor use only)
Pan/Tilt	16-bit resolution, smooth and precise movement	Dimensions (L×W×H)	430 × 380 × 550 mm
Flicker Control	Flicker-free operation (★)	Weight	16 kg
DMX Channels	16 channels	Applications	Entertainment (stage, concerts, clubs), Broadcast & Production (TV, film, livestream), Events & Corporate (conferences, exhibitions),