

PL-M-300W

Overview

The PL-M-300W is a high-performance LED beam moving head designed for professional stages, concerts, and events requiring exceptional brightness and precision. Equipped with a 300W White LED module, it delivers up to 120,000 lux @ 10 m (4° beam) for crisp, powerful beams and outstanding visual impact. With a motorized zoom (4°–37°), smooth 16-bit pan/tilt, and DMX512/RDM control, it offers full creative flexibility. The intelligent cooling system keeps operation quiet (≤ 32 dB(A)), and the 25 kHz PWM ensures flicker-free performance for HD/4K video.

Compact, reliable, and built for professional use, the PL-M-300LB is perfect for concert tours, TV studios, theatres, and live venues.

Product Specification

Feature

- 300W White LED module, up to 120,000 lux @ 10 m (4° beam)
- Motorized zoom 4°–37° for beam or wash effects
- 16 DMX channels with DMX512/RDM compatibility
- Pan 540° / Tilt 270° with 16-bit precision and $\pm 0.1^\circ$ repeatability
- 25 kHz PWM for flicker-free HD/4K recording
- Intelligent cooling system, noise ≤ 32 dB(A)
- 1–100% linear dimming, 13Hz strobe with random/pulse modes
- Graphic LCD backlit display for intuitive control
- Auto-sensing power supply AC 90–260V, max 450W
- PowerCon In/Out and 3-pin & 5-pin DMX connections
- Compact, durable design for touring and installations
- Dimensions: 430 × 380 × 550 mm | Weight: 16 kg

Category	Details
Light Source	300W White LED module
LED Lifetime	Approx. 50,000 hours
Beam Angle	4°–37° motorized zoom
Light Intensity	120,000 lux @ 10 m (4° beam angle)
Dimmer	1–100% linear dimming
Strobe	Up to 13 flashes/sec, random & pulse modes
Control Protocol	DMX512 / RDM
Control Channels	16 DMX channels
Control Modes	Auto / Master–Slave / Sound / DMX / RDM
Pan/Tilt Movement	Pan: 540°, Tilt: 270°, 16-bit resolution, repeatability $\pm 0.1^\circ$
Display	Graphic LCD backlit b/w display
PWM Frequency	25 kHz (flicker-free for HD/4K video recording)
Cooling System	Intelligent temperature-controlled fan
Noise Level	≤ 32 dB(A)
IP Rating	IP20 (indoor use only)
Power Supply	AC 90–260V, 50/60 Hz auto sensing
Max Power Consumption	450 W
Connections	PowerCon In/Out; DMX 3-pin & 5-pin XLR In/Out
Dimensions (L×W×H)	430 × 380 × 550 mm - Weight 16 kg

