PL-MNT-12QN

Overview

The Professional LED Moving Head Wash Zoom is a high-performance stage lighting fixture designed for professional applications including concerts, theaters, studios, clubs, conference centers, and live events. Equipped with 12 × 40W high-power RGBW 4-in-1 LEDs, advanced optical technology, and a 5°–55° motorized zoom system, the fixture delivers powerful output with smooth transition between Beam and Wash effects.

Featuring 16-bit Pan/Tilt movement, precise positioning, advanced RGBW color mixing, high CRI ≥98 color reproduction, and flicker-free PWM technology, this moving head provides accurate colors, smooth dimming, and reliable performance for demanding professional lighting environments.

With multiple DMX control modes, individual pixel control, intelligent thermal management, and robust construction, it offers excellent flexibility, stability, and long-term operation for modern stage and event production.

Key Feature

- High-Power RGBW LED Source
- Equipped with 12 × 40W RGBW 4-in-1 LEDs, delivering high brightness, rich color output, and excellent color mixing performance.
- Advanced Motorized Zoom System
- 5°–55° high-precision motorized zoom enables smooth transition between narrow Beam effects and wide Wash coverage.
- High Color Accuracy
- CRI ≥98 provides outstanding color rendering, accurate color reproduction, and natural skin tones for stage, broadcast, and professional events.
- Advanced RGBW Color Mixing
- RGBW 4-in-1 LED technology produces a wide color spectrum with smooth and consistent color transitions.
- Smooth 16-bit Dimming Control
- Provides precise 0–100% linear dimming with smooth brightness adjustment and professional lighting control.
- Flicker-Free Performance
- PWM ≥2kHz–25kHz technology reduces flicker, making it suitable for television, video production, and high-speed camera applications.
- Precision Pan/Tilt Movement
- 16-bit Pan/Tilt control ensures fast, smooth, and accurate positioning for dynamic stage performances.
- Individual Pixel Control
- Supports individual pixel mapping for creating advanced visual effects and creative lighting designs.
- Professional DMX Control
- Supports DMX512 / Auto / Master-Slave modes with 18 CH / 24 CH / 68 CH DMX configurations for flexible system integration.
- End-to-End Power Linking
- Supports PowerCon IN/OUT connection, allowing multiple fixtures to be connected efficiently in professional lighting systems.
- Intelligent Thermal Management
- Temperature-controlled cooling fan and automatic over-temperature protection ensure stable operation and extend fixture lifetime.
- Reliable Professional Construction
- Designed with durable components, high-efficiency optical system, and protection features for continuous operation in demanding environments.
- Wide Professional Applications
- Ideal for concerts, theaters, clubs, conference centers, stage performances, and event productions.



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Specification

Specification	Details
Product Type	Professional LED Moving Head Wash Zoom
Light Source	12 × 40W High-Power RGBW 4-in-1 LEDs
LED Driver	Constant Current LED Driver
LED Lifetime	≥50,000 Hours
MTBF	≥20,000 Hours (Mean Time Between Failures)
Optical System	High-Precision Multi-Coated Optical Lens
Zoom Range	5°–55° High-Precision Motorized Zoom
Color Mixing	RGBW 4-in-1 Advanced Color Mixing System
Color Rendering Index (CRI)	≥98
CCT Consistency	±100K
Color Uniformity	Excellent Color Uniformity
Pixel Control	Individual Pixel Mapping
Dimming	16-bit Linear Dimming (0–100%)
Flicker-Free PWM	≥2kHz–25kHz
Strobe	0–20 FPS
Pan/Tilt	16-bit Precision Pan/Tilt Movement – Provides smooth, accurate, and precise positioning
Position Correction	Automatic Pan/Tilt Position Correction
Display	Digital Display
Control Modes	DMX512 / Auto / Master-Slave

Specification	Details
DMX Channels	18 CH / 24 CH / 68 CH
DMX Protocol	DMX512 / 1990 Standard
Connectivity	3-pin & 5-pin XLR DMX In/Out
End-to-End Capability	Supported
Power Connection	PowerCon IN / OUT
Power Supply	AC 100–240V, 50/60Hz
Power Consumption	500W
Power Factor	≥0.95
Cooling System	Intelligent Temperature-Controlled Fan
Thermal Protection	Automatic Over-Temperature Protection
Safety Protection	Over-Voltage / Over-Current / Over-Temperature Protection
IP Rating	IP20 (Indoor Use Only)
Startup Time	Instant On
Warm-Up Time	No Warm-Up Required
Dimensions	380 × 270 × 420 mm
Net Weight	14 kg

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