# PL-MT-19EQN

## Overview

The PL-MT-19EQN is a high-performance professional LED Moving Head Wash designed for concerts, theatres, TV studios, broadcast productions, touring events, houses of worship, and large-scale entertainment venues.

Featuring 19 × 40W RGBW 4-in-1 high-output LEDs and 74 × RGB 5050 LED pixels, it delivers powerful, uniform output with dynamic Pixel Mapping and rotating ring effects. The 4°–60° motorized zoom provides flexible coverage from tight beam effects to wide-area wash.

The Professional RGBW Color Mixing System with CMY Simulation + CTO Color Temperature Control provides smooth color transitions, rich saturated colors, and precise white-light adjustment. With 2500K–9000K CCT, ±60K CCT consistency, and CRI ≥96, the fixture is well suited to demanding stage, theatrical, TV, and broadcast applications.

16-bit linear dimming, 16-bit Pan/Tilt positioning, and 2kHz–25kHz flicker-free PWM ensure smooth, precise, and camera-friendly performance for live, broadcast, livestreaming, and LED-screen environments.

Supporting DMX512, Auto, and Master-Slave control, with 3-pin and 5-pin DMX In/Out, the PL-MT-19EQN integrates easily into professional lighting systems. Intelligent thermal management, low-noise cooling, touring-grade housing, and IP20 indoor protection ensure reliable operation for demanding professional applications.Manufactured under an ISO 9001:2015 certified Quality Management System

## Key Feature

- 19 × 40W RGBW 4-in-1 High-Power LEDs for powerful, high-quality wash output
- 74 × RGB 5050 LED Pixels for dynamic ring effects and Pixel Mapping
- 4°–60° Motorized Zoom for flexible narrow-beam to wide-area wash coverage
- Professional RGBW Color Mixing + CMY Simulation + CTO Color Temperature Control
- 2500K–9000K Color Temperature with ±60K CCT Consistency
- CRI ≥96 for accurate and natural color reproduction
- 16-bit Linear Dimming, 0–100% for smooth and precise intensity control
- 2kHz–25kHz Flicker-Free PWM for camera, broadcast, livestream, and LED-screen applications
- 1–25 flashes/sec Strobe for dynamic stage effects
- 16-bit Pan/Tilt Positioning for fast and precise movement
- DMX512 / Auto / Master-Slave Control with 22 / 26 / 36 / 78 DMX Channels
- 3-pin & 5-pin DMX In/Out for professional system integration
- Intelligent Thermal Management + Low-Noise Cooling for stable, reliable operation
- LED Lifetime ≥50,000 hours and MTBF ≥20,000 hours
- AC90–260V, 50/60Hz Auto-Ranging Power Supply
- Professional Touring-Grade Composite Housing
- IP20 Protection – Indoor Use






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# PL-MT-19EQN

## Specification

| Specification | Details |
|---|---|
| Fixture Type | Professional LED Moving Head Wash Luminaire |
| Power Supply | AC90–260V, 50/60Hz, Auto-Ranging |
| Power Consumption | ≤850W |
| Light Source | 19 × 40W High-Power RGBW 4-in-1 LEDs + 74 × RGB 5050 LEDs |
| Pixel Source | 74 × RGB 5050 LEDs |
| CRI | ≥96 |
| CCT Consistency | ±60K |
| Color Temperature | 2500K–9000K |
| LED Lifetime | ≥50,000 hours |
| MTBF | ≥20,000 hours |
| Optical System | Precision Optical Projection System |
| Lens | High-Transmission Multi-Coated Optical Lens |
| Zoom Range | 4°–60° High-Precision Motorized Zoom |
| Color Mixing | Professional RGBW Color Mixing + CMY Simulation + CTO Color Temperature Control |
| Dimming | 0–100% Smooth 16-bit Linear Dimming |
| PWM Frequency | 2kHz–25kHz Flicker-Free PWM, Broadcast Ready |
| Strobe | Electronic Strobe, 0–25 flashes/sec (via RGB intensity control) |

| Specification | Details |
|---|---|
| Effects | Pixel Mapping, RGB LED Ring Effects |
| Pan | 540° (16-bit Resolution) |
| Tilt | 270° (16-bit Resolution) |
| Positioning | Fast 16-bit Pan/Tilt Positioning |
| Pan/Tilt Resolution | 16-bit |
| Dimmer Resolution | 16-bit |
| Control Modes | DMX512 / Auto / Master-Slave |
| Control Protocol | DMX512 (1990 Standard) |
| DMX Channels | 22 / 26 / 36 / 78 CH |
| DMX Connection | 3-pin & 5-pin DMX In/Out |
| Display | Graphic Backlit LCD Display |
| Power Connection | PowerCON IN/OUT |
| Cooling System | Intelligent Thermal Management with Low-Noise Cooling System |
| Protection Rating | IP20 – Indoor Use |
| Housing | Professional Touring-Grade Composite Housing |
| Dimensions | 40.5 x 23.4 x 44 cm |
| Net Weight | 15.2 kg |

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