

# PL-MB-12

## Overview

The PL-MB-12 12×40W LED Moving Head Bar is a high-performance linear lighting fixture designed for stage, live events, television studios, and architectural lighting applications. Equipped with 12 high-power 40W RGBW LEDs and an additional 144 RGB LED pixels, the fixture delivers powerful output with dynamic pixel mapping effects.

With a wide motorized zoom range of 3°–60°, high-resolution 32-bit dimming, and advanced RDM control, the PL-MB-12 ensures precise beam shaping and flexible programming. Enhanced with flicker-free PWM technology and high color rendering performance (CRI ≥96), it is fully optimized for broadcast and professional environments.

## Product Specification

## Feature

- 12 × 40W RGBW high-power LEDs for intense brightness
- 144 × 0.5W RGB LED pixels for dynamic pixel mapping effects
- Motorized zoom 3°–60° (beam to wash flexibility)
- 32-bit ultra-smooth dimming (0–100%)
- Flicker-free PWM ≥2kHz–25kHz (broadcast-ready)
- High CRI ≥96 for accurate color rendering
- RDM support for remote configuration
- Multiple DMX channel modes (24 / 36 / 60 / 72 / 144 CH)
- Digital display for easy setup
- Robust design for professional stage use.

Items	Details	Items	Details
Light Source	12 × 40W RGBW LEDs + 144 × 0.5W RGB LEDs	Control Protocol	DMX512 (1990), RDM
LED Lifetime	50,000 hours	Control Modes	DMX512 / Auto / Master-Slave / RDM
MTBF	≥ 20,000 hours	DMX Channels	24 / 36 / 60 / 72 / 144 CH
CRI	≥ 96	Power Supply	AC 100–240V, 50/60Hz
CCT Consistency	±100K	Power Consumption	500W
Beam Angle	3° – 60° (motorized zoom)	IP Rating	IP20
Dimming	0–100% linear, 32-bit	Dimensions	1000 × 110 × 258 mm
Flicker-Free	PWM ≥ 2kHz – 25kHz	Weight	12 kg
Display	Digital display		

