

# MAC 101™ Specifications

The MAC 101 is a remarkably small, super light and simple LED moving head wash light. It features a tight and very bright beam, rapid movement and calibrated colors with a low price tag that allows for revolutionary set, stage and decorative lighting designs.

## Features

- Highly efficient LEDs with true color calibration
- Variable CTC
- 2200 lm output
- 13.5° one-tenth peak angle
- Smooth electronic dimming: 0 - 100%
- Wide angle options
- Electronic strobe with pulse and random effects
- Martin's fastest moving head
- High efficiency, low power consumption
- Ultra-compact, low weight design (3.7 kg)
- Power easily daisy-chained

## Physical

- Length: 241 mm (9.5 in.) across yoke
- Width: 241 mm (9.5 in.) across yoke
- Height: 304 mm (12.0 in.)
- Weight: 3.7 kg (8.2 lbs.)

## Dynamic Effects

- Electronic 'color wheel' effect: 33 LEE-referenced colors plus white, color wheel rotation effect, random color
- Color mixing: RGB
- Red: 0 - 100%
- Green: 0 - 100%
- Blue: 0 - 100%
- Color temperature control: Variable 2500 - 10 000 K
- Shutter effect: Electronic, with pulse and random effects
- Electronic dimming: 0 - 100%, four dimming curve options
- Pan: 540°
- Tilt: 240°
- Adjustable pan/tilt speed

## Optics

- Light source: Cree XP-E high power emitters
- Minimum LED lifetime: 50 000 hours (to >70% luminous output)\*
- \*Manufacturer's figure obtained under manufacturer's test conditions*

## Control and Programming

- Control options: 3 control modes - RGB raw, RGB calibrated, Basic (RGB + CTC disabled)
- Control resolution: 8-bit, with 16-bit control of pan & tilt
- DMX channels: 8/12

Setting and addressing: Control panel with backlit graphic display  
Protocol: USITT DMX512/1990  
Transceiver: RS-485  
Fixture software update: Via DMX with Martin USB Duo DMX Interface

## Photometric Data

Total output: 2200 lm

## Construction

Color: Black or white  
Housing: High-impact flame-retardant thermoplastic  
Protection rating: IP20

## Installation

Mounting points: One M12 threaded hole for rigging clamp  
Orientation: Any  
Minimum distance to combustible materials: 100 mm (3.9 in.) from head, no minimum distance from base  
Minimum distance to illuminated surfaces: 200 mm (7.9 in.)

## Connections

AC power input: Neutrik PowerCon  
AC power throughput: Neutrik PowerCon  
DMX data in/out: 5-pin locking XLR

## Electrical

AC power: 100-240 V nominal, 50/60 Hz  
Maximum total power consumption: 123 W  
Power supply unit: Auto-ranging electronic switch mode  
Main fuse: 5 AT (slow blow)  
Standby power: <25 W

## Thermal

Cooling: Forced air (temperature-regulated, low noise, user-definable levels)  
Maximum ambient temperature (Ta max.): 40° C (104° F)  
Minimum ambient temperature (Ta min.): 5° C (41° F)  
Total heat dissipation (calculated, +/- 10%): 420 BTU/hr.

## Approvals

EU safety: EN 60598-1, EN 60598-2-17, EN 62471  
EU EMC: EN 55103-1, EN 55103-2, EN 55015, EN 61547  
US safety: UL 1573  
US EMC: FCC Part 15 Class A  
Canadian safety: CAN/CSA E60598-1, CAN/CSA E598-2-17  
Canadian EMC: ICES-003 Class A  
Australia/NZ: C-TICK N4241