



# MAC Quantum Profile

This extremely bright LED profile fixture combines top-quality white light with a fast, smooth CMY color mixing system and crisp gobo projection on surfaces as well as mid-air.

With all this and the new Animation™ FX system that allows never-before seen beam animations, the market is now finally seeing the first real 700/800 W discharge lamp replacement in a profile fixture that effectively harnesses cutting-edge LED technology.

First real alternative to a 700/800 watt HID fixture

Flat field, crisp image, high contrast

Full feature set including CMY color mixing and 1:3 zoom

## GALLERY



## FEATURES

- First real alternative to a 700/800 watt HID fixture
- Flat field, crisp image, high contrast
- Full feature set including CMY color mixing and 1:3 zoom
- Very low weight and compact design
- Super high-speed movements and effects
- Consistent photometric performance via latest LED technology

## TECHNICAL SPECIFICATIONS

### Physical

Length: 452 mm (17.8 in.)  
 Width (across yoke): 431 mm (17.0 in.)  
 Height (head straight up): 642 mm (25.3 in.)  
 Height (maximum): 648 mm (25.5 in.)  
 Weight: 23.2 kg (51.1 lbs.)

### Dynamic Effects

Color mixing: CMY, independently variable 0 - 100%  
 Color wheel: 6 color filters plus open  
 Rotating gobo wheel: 6 interchangeable gobos plus open, wheel rotation, gobo rotation, indexing and shake  
 Static gobo wheel: 10 gobos plus open, wheel indexing, rotation and shake  
 Beam effects: Rotating three-facet prism  
 Zoom: Motorized  
 Focus: Motorized, with zoom-focus tracking  
 Iris: 0 - 100%, pulse effects  
 Shutter effect: Electronic, with variable speed regular and random strobe  
 Electronic dimming: Four dimming curve options  
 Pan: 540°  
 Tilt: 268°  
 Pan and tilt speed: Adjustable via onboard control panel and DMX

### Control and Programming

Control system: DMX  
 RDM: Implemented  
 Control resolution: 8-bit, with 16-bit control of dimming, gobo indexing, zoom, focus, pan and tilt  
 DMX channels: 19/27  
 Setting and addressing: Control panel with backlit graphic display  
 DMX compliance: USITT DMX512-A  
 RDM compliance: ANSI/ESTA E1.20  
 Transceiver: RS-485  
 Fixture software update: Direct using USB memory stick or via DMX link using Martin USB Duo™ DMX Interface Box

### Optics

Light source: 475 W LED engine  
LED refresh rate: 3000 Hz  
Minimum LED lifetime: 50 000 hours (to >70% luminous output)\*  
Zoom range: 12° - 36° (1:3)  
Output: 12 700 lumens

\*Figure obtained under manufacturer's test conditions:

#### Construction

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

#### Installation

Mounting points: 4 pairs of quarter-turn locks  
Location: Indoor use only, must be fastened to surface or structure  
Orientation: Any  
Minimum distance to combustible materials: 0.2 m  
Minimum distance to illuminated surfaces: 2.0 m

#### Connections

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

#### Electrical

AC power: 120-240 V nominal, 50/60 Hz  
Power supply unit: Auto-ranging electronic switch mode  
Maximum total power consumption: 750 W  
Typical power consumption, all effects static, zero light output: Approx. 50 W  
Typical half-cycle RMS inrush current: 10.3 A

#### Typical Power and Current

120 V, 60 Hz: 4.8 A, 576 W, PF 0.999  
208 V, 60 Hz: 2.8 A, 568 W, PF 0.991  
230 V, 50 Hz: 2.5 A, 565 W, PF 0.988  
240 V, 50 Hz: 2.4 A, 565 W, PF 0.988

*Measurements made at nominal voltage with all LEDs at full intensity. Allow for a deviation of +/- 10%.*

Thermal

Cooling: Forced air (temperature-regulated, low noise, user-definable levels)  
Maximum ambient temperature (Ta max.): 40° C  
Minimum ambient temperature (Ta min.): 5° C  
Total heat dissipation (calculated, +/- 10%): 2000 BTU/hr.

#### Approvals

EU safety: EN 60598-2-17 (EN 60598-1), EN 62471  
EU EMC: EN 55015, EN 55032, EN 55103-2, EN 61000-3-2, EN 61000-3-3, EN 61547  
US safety (pending): UL 1573  
US EMC: FCC Part 15 Class A  
Canadian safety (pending): CSA C22.2 No. E598-2-17 (CSA E60598-1)  
Canadian EMC: ICES-003 Class A  
Australia/NZ: C-TICK N4241

#### Included Items

Two omega brackets for rigging clamp attachment: P/N 91602001

#### Accessories

3 m power cable, 12 AWG, SJT, with PowerCon NAC3FCA power input connector: P/N 11541503  
Neutrik PowerCon NAC3FCA power input connector, cable mount, blue: P/N 05342804  
Half-coupler clamp: P/N 91602005  
G-clamp: P/N 91602003  
Quick trigger clamp: P/N 91602007  
Flightcase for 2 x MAC Quantum™: P/N 91510210

#### Related Items

Martin USB Duo™ DMX Interface Box: P/N 90703010  
Martin RDM 5.5 Splitter™: P/N 90758150

#### Ordering Information

MAC Quantum Profile™ in cardboard box: P/N 90240000  
MAC Quantum Profile™ in 2-unit flightcase: P/N 90240010

