

# MAC Quantum Profile™



# Crisper, brighter, lighter

**MAC Quantum Profile™ is a fully featured LED profile that sets new standards for combined performance, weight and size.**

This workhorse represents the latest in LED technology which in combination with Martin's proprietary optical design delivers a crisp and bright output. Any concerns about lamp aging, shifts in color temperatures, green color points, misaligned lamps and declining output are eliminated, as consistent LED technology guarantees that the last show on the tour looks as good as the first.

The MAC Quantum Profile is designed to please all around. Weighing in at only 22 kg without compromising performance and speed, its compact size and precise movements will wow audiences, designers and technicians alike. And being great value for money, the MAC Quantum Profile offers a speedy return on investment.

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

## Preliminary Data

### Physical

Length: 452 mm (17.8 in.)  
Width: 439 mm (17.3 in.)  
Height (head straight up): 642 mm (25.3 in.)  
Weight: 22.4 kg (49.4 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 multi-facet prism  
Zoom: 12° - 34° (1:3)  
Focus: Motorized  
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 pan & tilt  
DMX channels: TBA  
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: Via DMX with Martin™ USB Duo DMX Interface Box

### Optics

Light source: 430 W LED engine  
Minimum LED lifetime: 50 000 hours (to >70% luminous output)\*  
*\*Figure obtained under manufacturer's test conditions*

### Construction

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

### Installation

Mounting points: 2 pairs of 1/4-turn locks  
Location: Indoor use only, must be fastened to surface or structure  
Orientation: Any  
Minimum distance to combustible materials: 0.2 m (0.7 ft.)  
Minimum distance to illuminated surfaces: 2.0 m (6.6 ft.)

### 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  
Typical power consumption, all effects static, zero light output: Approx. 50 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)

### 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

### Accessories

3 m (9.8 ft.) 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  
Safety cable, safe working load 50 kg (110.2 lbs.): P/N 91604003  
Flightcase for 2 x MAC Quantum™: P/N 91510210

### Ordering Information

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

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### About Martin Professional

As a world leader in the creation of dynamic lighting solutions for the entertainment, architectural, and commercial sectors, Martin lighting and video systems are renowned the world over. Martin also offers a range of advanced lighting controllers and media servers, as well as a complete line of smoke machines as a complement to intelligent lighting. Martin operates the industry's most complete and capable distributor network with local partners in nearly 100 countries. Founded in 1987 and based in Aarhus, Denmark, Martin is the lighting division of global infotainment and audio company HARMAN International Industries.

For more information please visit



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