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 Animotion™ 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

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: UL 1573
US EMC: FCC Part 15 Class A
Canadian safety: 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