MAC Quantum Wash

The MAC Quantum Wash features tight beams, beautiful wash fields, a market-leading color palette, and uniform mixing that combines to accommodate the most demanding applications, offering brightness and perfection. Combining an impressive 750 watt of RGBW LED power with Martin's market leading optical system ensures that the 1:5 zoom on the MAC Quantum Wash operates with maximum output and superior performance.

RGBW LED color mixing with unique and expressive Colorganics™ system for superior default white and deep saturated colors

1:5 zoom for tight beams and even washes

Beam twister effects: Rotating front lens for stunning mid-air and projection effects

FEATURES

- Bright and perfect RGBW LED wash light for demanding applications

- Quick 1:5 zoom for tight beams and even washes

- Unique and expressive Colorganics™ system

- Highly efficient optical system

- Eye-candy Aura Effect™

- Beamtwister effects via rotating front lens

- Very low weight and compact design

- Super high-speed movements and effects

TECHNICAL SPECIFICATIONS

Physical
Length: 452 mm (17.8 in.)
Width (across yoke): 431 mm (17 in.)
Height (maximum): 581 mm (22.9 in.)
Height (head straight up): 511 mm (20.1 in.)
Weight: 21 kg (46.3 lbs.)

Dynamic Effects
Color mixing: RGBW
Beam effects: Beam twister, light and color morphing, color spin
'Color wheel' effect: 36 solid colors plus white, variable-speed 'color wheel rotation' effect and random color
Color ring effects: 36 split ring colors with variable-speed color wheel rotation effects
Shutter effect: Electronic, with variable speed regular and random strobe
Pre-programmed effects: Range of synchronized and independent color, intensity, beam twister and zone effects
Electronic dimming: Four dimming curve options
Color temperature control: Variable 2000 - 10 000 K
Zoom: Motorized
Pan: 540°
Tilt: 270°
Pan and tilt speed: Adjustable via onboard control panel and DMX

Control and Programming
Control system: DMX
Control options: Independent control of color ring/beam zones
Macro programs selectable via DMX: Range of synchronized and independent color, intensity, beam twister and zone effects
RDM: Implemented
Control resolution: 8-bit, with 16-bit control of pan, tilt, dimming and lens rotation
DMX channels: 33/17
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: USB memory device or USB/DMX hardware interface over DMX link

Optics
Light source: 50 x 15 W RGBW LEDs
LED refresh rate: Beam 3000 Hz, Aura 3000 Hz
Minimum LED lifetime: 50 000 hours (to >70% luminous output)*
Zoom range: 11–53° (1:5)
Output: 16 000 lm
*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
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
Maximum total power consumption: 1020 W
Power supply unit: Auto-ranging electronic switch mode
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: 7.4 A, 880 W, PF 0.999
208 V, 60 Hz: 4.2 A, 860 W, PF 0.995
230 V, 50 Hz: 3.8 A, 856 W, PF 0.993
240 V, 50 Hz: 3.7 A, 858 W, PF 0.992
Measurements made at nominal voltage with all LEDs at full intensity. Allow for a deviation of +/- 15%.:

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
Max. total heat dissipation (calculated, +/- 15%): 3480 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
Soft Lens for MAC Quantum Wash™: P/N 91611600
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 Wash™ in cardboard box: P/N 90240020
MAC Quantum Wash™ in 2-unit flightcase: P/N 90240030