



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 1:6 zoom on the MAC Quantum Wash operates with maximum output and superior performance.

- Bright and perfect light for demanding applications
- 1:5 zoom
- Unique and expressive Colorganics™ system
- Highly efficient optical quality
- Compact form factor
- Super high-speed movements
- Rugged construction

Physical Length: 452 mm (17.8 in.)
 Width (across yoke): 431 mm (17.0 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: Synchronized beam zone effects
 RDM: Implemented
 Control resolution: 8-bit, with 16-bit control of pan, tilt, dimming and lens rotation
 DMX channels: 33/14
 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: 50 x 15 W RGBW LEDs

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 Maximum total power consumption: 880 W Power supply unit: Auto-ranging electronic switch mode Typical power consumption, all effects static, zero light output: Approx. 50 W

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 <i>Measurements made at nominal voltage with all LEDs at full intensity. Allow for a deviation of +/- 10%.</i>
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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%): 3000 BTU/hr.
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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

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
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Related Items	Martin USB Duo™ DMX Interface Box: P/N 90703010 Martin RDM 5.5 Splitter™ : P/N 90758150
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Ordering Information	MAC Quantum Wash™ in cardboard box: P/N 90240020 MAC Quantum Wash™ in 2-unit flightcase: P/N 90240030
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Photometric Data

Standard (All LEDs on - 6500K) , Zoom at Minimum	Efficacy: 17.4 lumens per watt One-tenth peak angle: 11°
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	Total output: 11100 lm
Standard (All LEDs on - 6500K) , Zoom at Median	Efficacy: 21.3 lumens per watt One-tenth peak angle: 28° Total output: 13600 lm
Standard (Only Green LEDs on) , Zoom at Maximum	Efficacy: 19.9 lumens per watt One-tenth peak angle: 52° Total output: 6100 lm
Standard (Only Blue LEDs on) , Zoom at Maximum	Efficacy: 4.3 lumens per watt One-tenth peak angle: 52° Total output: 1200 lm
Standard (All LEDs on - 6500K) , Zoom at Maximum	Efficacy: 24.7 lumens per watt One-tenth peak angle: 53° Total output: 15700 lm
Standard (Only Red LEDs on) , Zoom at Maximum	Efficacy: 13.2 lumens per watt One-tenth peak angle: 51° Total output: 3100 lm

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