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 backlight 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%.*

**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. E598-17 (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 Wash™: 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