Martin®
by HARMAN
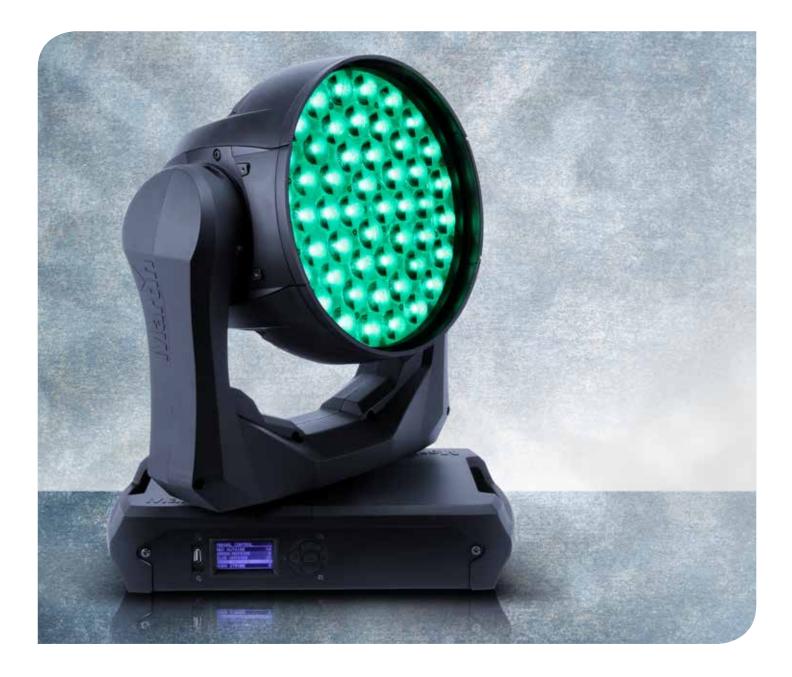
Beautiful wash fields and expressive mid-air effects

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
- 1:6 zoom
- Unique and expressive Colorganics™ system
- Highly efficient optical quality
- Compact
- Super high-speed movements
- Rugged construction

Preliminary specifications

Physical
Length: 452 mm (17.8 in.)
Width: 452 mm (17.8 in.)
Height: 547 mm (21.5 in.), head straight up
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 LEE-referenced 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 2700 - 7200 K
Zoom: 11° - 59° (one-tenth peak angle)
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 beam twister
DMX channels: 37/14
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 LEDs
Minimum LED lifetime: 50 000 hours (to >70% luminous output)*
Figure obtained under manufacturer's test conditions

Photometric Data
Total output: 15 400 lm

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: 0.3 m (1.0 ft.)
Minimum distance to illuminated surfaces: 1 m (3.3 ft.)

Connections
AC power in/thru: 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: 760 W
Power supply unit: Auto-ranging electronic switch mode
Typical power consumption, all effects static, zero light output: <15 W

Typical Power and Current
120 V, 60 Hz: 7 A, 760 W
230 V, 50 Hz: 3.5 A, 760 W
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 (104° F)
Minimum ambient temperature (Ta min.): 5° C (41° F)
Total heat dissipation (calculated, +/- 10%): 2560 BTU/hr.

Approvals
EU safety: EN 60598-2-17 (EN 60598-1), EN 62471
EU EMC: EN 55032, EN 61000-3-2, EN 61000-3-3
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
Neutrik PowerCon NAC3FCB power output connector, cable mount, light grey: P/N 05342805
Power relay cable with PowerCon connectors, 1.4 m (4.6 ft.): P/N 11850099
Power relay cable with PowerCon connectors, 2.25 m (7.4 ft.): P/N 11850100
G-clamp: P/N 91602003
Half-coupler clamp: P/N 91602005
Quick trigger clamp: P/N 91602007
Safety wire, safe working load 50 kg (110.2 lbs.): P/N 91604003
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

Data is preliminary.

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

HARMAN (www.HARMAN.com) designs, manufactures and markets a wide range of audio and infotainment solutions for the automotive, consumer and professional markets — supported by 15 leading brands, including AKG®, Harman Kardon®, Infinity®, JBL®, Lexicon® and Mark Levinson®. The Company is admired by audiophiles across multiple generations and supports leading professional entertainers and the venues where they perform. More than 25 million automobiles on the road today are equipped with HARMAN audio and infotainment systems. HARMAN's highly competent workforce is employed across the Americas, Europe and Asia.