



# MAC Encore Wash CLD

Designed to produce rich color and premium white light in a wide variety of applications where light quality is critical, the MAC Encore™ Wash CLD is an LED-based alternative to the MAC Viper Wash DX. The feature-packed soft edge moving head offers unparalleled 6000 K crisp, neutral daylight, and doubles as a modern replacement for generic fixtures like HMI based Fresnel fixtures, with the additional benefit of color mixing and movement.

Unparalleled 6000 K cold white light quality

Super silent cooling and effects operation

Best-in-class size/weight/performance ratio

## GALLERY



## FEATURES

- Pure white LED engine with 6000 K CCT.
- No color temperature variation during zoom and dimming.
- Flicker-free operation—LED driver frequency suitable for all camera applications.
- Whisper-silent—Combines convection and forced air cooling with user-selectable output vs. sound level control.
- Fully electronic dimmer/shutter control with various dimming curves and tungsten red-shift emulation.
- Vibrant CMY color mixing with a superior palette of colors ranging from rich, saturated primary colors to light and smooth pastel shades.
- Variable CTO—daylight to tungsten CCT control and expansion of the CMY palette that stays true to the black body curve.
- Color wheel—6 interchangeable dichroic filters + open.
- Fresnel lens: 1:4 zoom—precise, silent and fast zoom.
- PC lens (optional): 1:5 zoom—precise, silent and fast zoom.
- Internal barndoor system with two shutter blades and iris. Shutter blades can overlap for full blackout and the entire system rotates +/- 100°. Repeats cues with great precision.
- Precise and tight iris with adjustable dynamic effects.
- Animation™ FX System—Internal dimming effect macros for stunning 3D mid-air and projection effects.
- Super precise and silent pan/tilt movement and positioning due to 3-phase stepper motor technology and absolute position monitoring.
- Compact size—L: 452 x W: 480 x H: 745 mm / L: 17.8 x W: 18.9 x H: 29.3 in.
- Low weight—28.5 kg/62.9 lbs
- Foam rubber (SIP) flight case insert for secure shipment.

## TECHNICAL SPECIFICATIONS

### Physical

Length: 452 mm (17.8 in.)

Width (across yoke): 480 mm (18.9 in.)

Height (maximum): 755 mm (29.8 in.)

Height (head straight up): 745 mm (29.4 in.)  
 Weight: 28.5 kg (62.9 lb.)  
 Minimum center-to-center distance in side-by-side installation: 730 mm (28.8 in.)

**Dynamic Effects**  
 Color mixing: CMY, independently variable 0 - 100%  
 Color temperature control: Variable 6000 - 2700 K  
 Color wheel: 6 x interchangeable dichroic filters + open, indexing, continuous rotation, random color  
 Barn doors: Internal, two blades with individually controllable insertion, +/- 100° module rotation  
 Iris: Variable 0 - 100%  
 Dimmer/shutter: 0 - 100% continuous dimming, regular and random strobe and pulse effects, instant open and blackout  
 Dimming options: Choice of four dimming curves  
 Pre-programmed effects: Two ranges of FX, independent or synchronized/combined  
 Focus: Range varies with zoom angle, from approx. 2 m (6.6 ft.) / 6 m (19.7 ft.) to infinity  
 Zoom: Motorized  
 Pan: 540°  
 Tilt: 268°  
 Position correction system: Absolute position monitoring

**Control and Programming**  
 DMX channels: 24  
 Setting and addressing: Control panel with backlit graphic display and jog wheel or via DMX  
 16-bit control: Dimming, pan and tilt  
 Movement control options: Tracking and vector  
 Fixture identification: User-settable ID number  
 DMX compliance: USITT DMX512-A  
 RDM compliance: ANSI/ESTA E1.20  
 Transceiver: Opto-isolated RS-485  
 Fixture software update: USB memory device or over DMX link

**Optics**  
 Light source: 6000 K white LEDs  
 Total LED engine power: 468 W  
 Minimum LED lifetime: 50 000 hours (to >80% luminous output)\*  
 Zoom range with Fresnel lens (standard): 14° - 60° one-tenth peak (1:4)  
 Zoom range with PC lens (optional): 11° - 58° one-tenth peak (1:5)  
*\*Figure obtained under manufacturer's test conditions*

**Photometric Data**  
 Light engine luminous output: ≥ 39 400 lumens  
 Fixture luminous output with Fresnel lens (standard): 11 000 lumens  
 Fixture luminous output with PC lens (optional): 12 000 lumens  
 CRI (Color Rendering Index): >80  
 CQS (Color Quality Scale): >80  
 TM-30 Rf (IES TM-30-15 Fidelity Index): >80  
 TM-30 Rg (IES TM-30-15 Gamut Index): >96  
 TLCI (Television Lighting Consistency Index): >70

**Construction**  
 Color: Black  
 Housing: High-impact flame-retardant thermoplastic  
 Protection rating: IP20

**Installation**  
 Mounting points: 4 pairs of 1/4-turn locks  
 Location: Dry location only, must be fastened to surface or structure  
 Orientation: Any  
 Minimum distance to combustible materials: 0.2 m (8 in.)  
 Minimum distance to illuminated surfaces: 2.0 m (6.6 ft.)

**Connections**  
 AC power input: Neutrik TRUE1 socket (accepts Neutrik TRUE1 NAC3FX-W connector)  
 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  
 Power consumption, all effects static, zero light output: 64 W  
 Half-cycle RMS inrush current at 230 V, 50 Hz: 10.3 A

**Typical Power and Current**  
 120 V, 60 Hz: 5.0 A, 596 W, PF 0.998  
 208 V, 60 Hz: 2.9 A, 581 W, PF 0.988  
 230 V, 50 Hz: 2.6 A, 580 W, PF 0.981  
 240 V, 50 Hz: 2.2 A, 585 W, PF 0.979  
*Figures are typical, not maximum. Measurements made at nominal voltage with all LEDs at full intensity.*  
*Allow for a deviation of +/- 10%.*  
*PF = power factor*

**Thermal**  
 Cooling: Combined convection and forced air (temperature-regulated, low noise, user-definable levels)  
 Maximum surface temperature, steady state, Ta=40° C: 75° C (167° F)  
 Maximum ambient temperature (Ta max.): 40° C (104° F)  
 Minimum ambient temperature (Ta min.): 5° C (41° F)  
 Total heat dissipation (calculated, +/- 10%): 2000 BTU/hr.

**Approvals**  
 EU safety: EN 60598-2-17, EN 62471, EN62493  
 EU EMC: EN 55015, EN 55032, EN 55103-2, EN 61000-3-2, EN 61000-3-11, EN 61547  
 US safety: UL 1573  
 US EMC: FCC Part 15 Class A

Canadian safety: CSA C22.2 No. E598-2-17  
Canadian EMC: ICES-003 Class A  
Australia/NZ: RCM

#### Included Items

Two omega brackets with 1/4 turn fasteners for rigging clamp attachment

#### Accessories

PC (planoconvex) Lens for MAC Encore Wash: P/N TBA

#### Cables and connectors

Power Input Cable, H07RN-F, 2.5 mm<sup>2</sup>, bare ends to TRUE1 NAC3FX-W (female), 1.5 m (4.9 ft.): P/N 91611797

Power Input Cable, H07RN-F, 2.5 mm<sup>2</sup>, bare ends to TRUE1 NAC3FX-W (female), 5 m (16.4 ft.): P/N 91611786

Power Input Cable, SJOOW, 12 AWG, bare ends to TRUE1 NAC3FX-W (female), 1.5 m (4.9 ft.): P/N 91610173

Power Input Cable, SJOOW, 12 AWG, bare ends to TRUE1 NAC3FX-W (female), 5 m (16.4 ft.): P/N 91610174

Cable Connector, Neutrik PowerCON TRUE1 NAC3FX-W (female): P/N 91611789

#### Installation hardware

G-clamp (suspension with fixture hanging vertically downwards only): P/N 91602003

Quick Trigger Clamp (suspension with fixture hanging vertically downwards only): P/N 91602007

Half-coupler Clamp: P/N 91602005

Safety Cable, SWL 60 kg, BGV C1 / DGUV 17, black: P/N 91604006

Safety Cable, SWL 60 kg, BGV C1 / DGUV 17, silver: P/N 91604007

#### Flightcases

Two-unit Flightcase for MAC Encore™\*: P/N 91515048

*\*Please order SIP variant fixtures to obtain the required SIP foam flightcase inserts*

#### Related Items

Martin® M-PC 2U incl. Martin® M-DMX USB-DMX Interface : P/N 90737070

Martin® M-PC Pro-64 / LJ-4 Controller Kit incl. Martin® M-DMX USB-DMX Interface: P/N 90737060

Martin® RDM 5.5 Splitter: P/N 90758150

#### Ordering Information

MAC Encore™ Wash CLD EPS (in cardboard box, polystyrene packaging): P/N 90234040

MAC Encore™ Wash CLD SIP (in cardboard box with SIP foam flightcase insert): P/N 90234045

