

MAC ENCORE™ WASH

3,000 K WARM LED MOVING HEAD | 6,000 K COLD LED MOVING HEAD

SPEC SHEET

The new, whisper-silent benchmark in wash lighting

Designed to produce rich color and premium white light in a wide variety of applications where light quality is critical, the MAC Encore Wash is available in two dedicated color temperature variants: WRM for unparalleled, 3,000 K warm incandescent emulation and CLD for crisp, 6,000 K neutral daylight, all housed in a cleverly cooled and packed optical design. The WRM variant is a perfect replacement for the much-loved, discontinued MAC TW1, and the CLD variant is an LED-based alternative to the MAC Viper Wash DX. Both variants can also be used as modern replacements for generic fixtures like tungsten or HMI based Fresnel fixtures, with the additional benefit of color mixing and movement.

Unparalleled light quality

Full-featured, next-generation LED moving head that delivers light quality and consistent performance levels never before seen in an LED based stage lighting unit.

Super silent

Stealth cooling and silent effects operation make this the quietest moving head of its class.

Best size/weight/performance ratio

Lightest-in-class, completely redesigned frame with truck-friendly dimensions offers fast rigging and cost-effective transportation.



KEY MESSAGES

NEW LED TECHNOLOGY

MAC Encore Wash is designed for real life applications, and the 3,000 K WRM version, first introduced in MAC Encore Performance, presents a true challenge to the output quality of incandescent fixtures. The pure white 3,000 K CCT (WRM) and 6,000 K CCT (CLD) offer the most comprehensive spectrum available to date in a white light, LED source moving head. High CRI, TM-30 and R9 values ensure that skin tones, costumes, set pieces and more will render their true colors naturally in live productions and flicker-free on camera due to fast LED refresh rates that are compatible with TV and film camera shutter speeds.

WHISPER-SILENT

MAC Encore Wash will make an immediate impression on you by what's not there; it is the most silent, soft edge moving head we've ever built.

All motorized effects operations—cooling fans, barndoors, iris, zoom, pan and tilt—are engineered for applications where strict noise levels are a necessity. Even while running at maximum operation mode, MAC Encore Wash is still a stealth operator.

STURDY, LIGHTWEIGHT DESIGN

With its best-in-class compact design and premium build-quality, MAC Encore Wash lives up to Martin's tour-proven standards. Its slick form factor offers the highest lumen per kg/lb ratio of its class. Combined, you get the lightest and finest fixture on the market (28.5 kg/62.9 lbs.) for applications where ultimate light quality is key and where truck, rig and warehouse space are limited.

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FEATURES

- Pure white LED engine with 3,000 K CCT (WRM fixture variant).
- Pure white LED engine with 6,000 K CCT (CLD fixture variant).
- 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 CTB—tungsten to daylight CCT control and expansion of the CMY palette that stays true to the black body curve (WRM fixture variant).
- Variable CTO—daylight to tungsten CCT control and expansion of the CMY palette that stays true to the black body curve (CLD fixture variant).
- 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
- Optional foam rubber (SIP) flight case insert for secure shipment.

ORDERING INFORMATION

- | | |
|---------------------------------------|--------------|
| • MAC Encore Wash WRM / EPS packaging | P/N 90234025 |
| • MAC Encore Wash WRM / SIP packaging | P/N 90234030 |
| • MAC Encore Wash CLD / EPS packaging | P/N 90234040 |
| • MAC Encore Wash CLD / SIP packaging | P/N 90234045 |

OPTIONAL ACCESSORIES

- Dual-fixture flight case (please order SIP variant fixtures to obtain the required SIP foam flightcase inserts)
- Followspot handles.
- Gel frame to be mounted onto front lens.
- PC Lens (interchangeable with standard Fresnel Lens).



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TECHNICAL SPECIFICATIONS

DYNAMIC EFFECTS

| | |
|--|---|
| Color mixing | CMY, independently variable 0 - 100% |
| Color temperature control, CLD variant | Variable 2,700 - 6,000 K |
| Color temperature control, WRM variant | Variable 3,000 - 7,000 K |
| Color wheel | 6 interchangeable dichroic filters + open, indexing, continuous rotation, random color |
| Barndoors | 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 | RS-485 |
| Receiver | Opto-isolated RS-485 |
| Fixture software update | USB memory device or over DMX link |

OPTICS

| | | |
|------------------------------------|--|--------------------|
| Light source | 3,000 K white LEDs | 6,000 K white LEDs |
| Total LED engine power | 468 W | 468 W |
| Minimum LED lifetime | 50,000 hours / to >80% luminous output (Figure obtained under manufacturer's test conditions) | |
| Zoom range with Fresnel lens | 14°-60° one-tenth peak [1:4] | |
| Zoom range with PC lens (optional) | 11°-58° one-tenth peak [1:5] | |

CONSTRUCTION

| | |
|-------------------|---|
| Color | Black |
| Housing | High-impact flame-retardant thermoplastic |
| Protection rating | IP20 |

PHOTOMETRICS

| | WRM | CLD |
|--|------------|------------|
| Light engine luminous output | ≥ 31.5 klm | ≥ 39.4 klm |
| Luminous output with Fresnel lens | 8.5 klm | 11 klm |
| Luminous output with PC lens (opt.) | 9.5 klm | 12 klm |
| CRI (Color Rendering Index) | >90 | >80 |
| CQS (Color Quality Scale) | >90 | >80 |
| TM-30 Rf (IES TM-30-15 Fidelity Index) | >90 | >80 |
| TM-30 Rg (IES TM-30-15 Gamut Index) | >98 | >96 |
| TLCI (TV Lighting Consistency Index) | >90 | >70 |

INSTALLATION

| | |
|---------------------------------------|---|
| Mounting points | 2 pairs of 1/4-turn locks |
| Location | Dry location only, must be fastened to surface or structure |
| Orientation | Any |
| Min distance to combustible materials | 0.2 m (8 in.) |
| Min distance to illuminated materials | 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 |

INCLUDED ITEMS

Two omega brackets with ¼ turn fasteners for rigging clamp attachment

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, Power Factor 0.998 |
| 208 V, 60 Hz | 2.9 A, 581 W, Power Factor 0.988 |
| 230 V, 50 Hz | 2.6 A, 580 W, Power Factor 0.981 |
| 240 V, 50 Hz | 2.2 A, 585 W, Power Factor 0.979 |

Figures are typical, not maximum. Measurements made at nominal voltage with all LEDs at full intensity. Allow for a deviation of +/- 10%.

THERMAL

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

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DIMENSIONS

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.)
- Minimum center-to-center distance in side-by-side installation 730 mm (28.8 in.)
- Weight 28.5 kg (62.9 lbs.)

