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.
- Animotion™ 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

CMY, independently variable 0 - 100%
Variable 2,700 - 6,000 K
Variable 3,000 - 7,000 K
6 interchangeable dichroic filters + open, indexing, continuous rotation, random color
Internal, two blades with individually controllable insertion, +/- 100° module rotation
Variable 0 - 100%
0 - 100% continuous dimming, regular and random strobe and pulse effects, instant open and blackout
Choice of four dimming curves
Two ranges of FX, independent or synchronized/combined
Range varies with zoom angle, from approx. 2 m (6.6 ft.) / 6 m [19.7 ft.] to infinity
Motorized
540°
268°
Absolute position monitoring

CONTROL AND PROGRAMMING

DMX channels	·
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 >8 (Figure obtained und test conditions)	0% luminous output der manufacturer´s
Zoom range with Fresnel lens	. 14°-60° one-tenth p	eak (1:4)
Zoom range with PC lens (optional)	. 11°-58° one-tenth p	eak (1:5)

CONSTRUCTION

Color	Віаск
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 $% \left(1\right) =\left(1\right) \left(1\right) \left$. 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 1/4 turn fasteners for rigging clamp attachment

ELECTRICAL

AC power	20-240 V nominal, 50/60 Hz
Power supply unit	Auto-ranging electronic switch mode
Power consumption, all effects static, zero light output	54 W
Half-cycle RMS inrush current at	
230 V, 50 Hz	0.3 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
240 V, 50 Hz
Figures are typical, not maximum. Measurements made at nominal voltage

Figures are typical, not maximum. Measurements made at nominal voltag with all LEDs at full intensity. Allow for a deviation of \pm 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.)

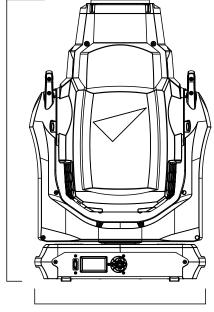
 Height (maximum)
 755 mm (29.8 in.)

 Height (head straight up)
 745 mm (29.4 in.)

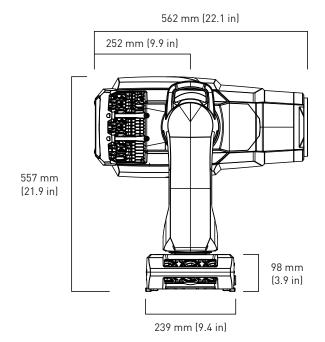
 Minimum center-to-center distance in side-by-side installation
 730 mm (28.8 in.)

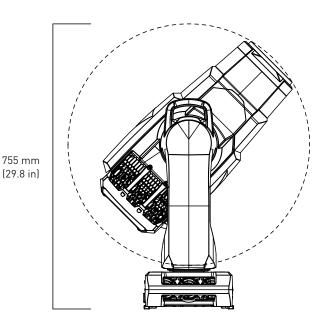
 Weight
 28.5 kg (62.9 lbs.)

745 mm (29.4 in)



452 mm (17.8 in)





Martin