

ERA 400 Performance WRM

300W WARM LED BASED PROFILE WITH FRAMING AND CMY COLOR MIXING

SPEC SHEET



Designed to fulfill the demand for a bright, compact, tour-worthy moving head, the Martin ERA 400 Performance WRM combines a feature-loaded and rugged, yet cost-efficient profile for entertainment and rental applications.

It features a highly efficient 300W warm white LED engine that offers unparalleled 3,200K warm tungsten emulation with a high CRI ideally suited towards small to mid-size theatres and compliments perfectly the Martin ELP range. It produces a sharp image projection with a flat field, includes 1:3 zoom, electronic dimming and strobe, full CMY color mixing and separate color wheel, iris for beam adjustment and fixed and rotating gobo wheels, loaded with user-favorite gobos from the renowned Martin MAC range that include a wide variety of effects, especially when combined with the included rotating prism.

Whether being used for small and mid-sized theaters, concert and touring, live TV productions, corporate shows, cruise lines, or houses of worship, the Martin ERA 400 Performance WRM is ideal for a long list of scenarios, requiring a truly versatile LED profile that offers near limitless design and usage potential.

KEY MESSAGES

FULL FRAMING SYSTEM

The full curtain framing system allows each of the four framing blades to cross the entire beam independently for full blackout. In addition, the entire framing module can rotate ± 45 degrees, allowing for precise and accurate image projection for the desired stage area. When fully focused, gobos can be framed with a soft edge, enabling designers a high degree of flexibility in the lighting design.

300 WATT LED LIGHT SOURCE

With an efficient 300 watt light source, the ERA 400 delivers more output than similar-sized fixtures. Fully electronic dimming ensures extremely fast strobing, instant intensity control, and a flat, consistent field that can be maintained down to zero percent.

CMY COLOR MIXING

Offers subtle pastels to vibrant colors, as well fast transitions and smooth fades. The color wheel produces nice color splits, fast color bumps & extends overall color gamut and brightness. The native 3200K warm LED allows for warm natural colors with lot of punch.

1:3 ZOOM RANGE

With 10 to 30 degrees of zoom, the ERA 400 Performance works great on various trim heights and the 30 degree wide angle delivers enough spread for a great coverage on smaller stages. Zooming is fast and accurate and maintains a high output throughout the range.

COMPACT AND DESIGNED FOR THE ROAD

The ERA 400 is a very compact and low weight for its class making it easy to handle and rig. The modular design makes accessing & replacing of effects safe, quick, and easy – modules can be swapped in less than a minute.

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FEATURES

- Bright 300 watt / 3,200K LED light source
- 6,000 lumen output
- Smooth electronic dimming and fast strobe effects
- Crisp optics with flat field
- 1:3 Fast zoom
- CMY color mixing - Vibrant color mixing with a superior palette of colors matching the MAC range
- 9-slot color wheel -for added color choice and split color effects
- Full Curtain Framing blades with +/- 45° rotation of entire system for flexible shape generation
- 7 rotating/indexing gobos - All renowned Martin glass gobos
- 9 static gobos for great morphing effects
- Iris - Fast and tight iris
- 3-facet prism - Real beam separation with rotation and index control for dynamic effects
- Compact and low weight design

ORDERING INFORMATION

- Martin ERA 400 Performance WRM in cardboard box P/N 9025121795
- Flightcase, two unit for ERA 400 P/N 91511217

INCLUDED ITEMS

- 2 x Omega brackets for rigging clamp attachment

RELATED ITEMS

- Martin™ RDM 5.5 Splitter P/N 90758150
- Martin Companion Cable P/N 91616091
- Martin Companion Software Suite (including firmware uploader)



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ACCESSORIES

CABLES, 16 A, FOR CONNECTION TO POWER IN CHAINS

- Power input cable, H07RN-F, 2.5 mm², 14 AWG, bare ends to Neutrik TRUE1 NAC3FX-W (female), 1.5 m (4.9 ft.) P/N 91611797
- Power input cable, H07RN-F, 2.5 mm², 14 AWG, bare ends to Neutrik TRUE1 NAC3FX-W (female), 5 m (16.4 ft.)..... P/N 91611786
- Power input cable, SJ00W, 12 AWG, bare ends to Neutrik TRUE1 NAC3FX-W (female), 1.5 m (4.9 ft.)..... P/N 91610173
- Power input cable, SJ00W, 12 AWG, bare ends to Neutrik TRUE1 NAC3FX-W (female), 5 m (16.4 ft.)..... P/N 91610174

CABLES, 16 A, FOR RELAYING POWER IN CHAINS

- Power relay cable, H07RN-F, 2.5 mm², TRUE1 to TRUE1, 0.45 m (1.5 ft.)..... P/N 91611784
- Power relay cable, H07RN-F, 2.5 mm², TRUE1 to TRUE1, 1.2 m (3.9 ft.)..... P/N 91611785
- Power relay cable, H07RN-F, 2.5 mm², TRUE1 to TRUE1, 2.5 m (8.2 ft.)..... P/N 91611786
- Power relay cable, SJ00W, 12 AWG, TRUE1 to TRUE1, 0.45 m (1.5 ft.)..... P/N 91610170
- Power relay cable, SJ00W, 12 AWG, TRUE1 to TRUE1, 1.2 m (3.9 ft.)..... P/N 91610171
- Power relay cable, SJ00W, 12 AWG, TRUE1 to TRUE1, 2.5 m (8.2 ft.)..... P/N 91610172

CONNECTORS

- Power connector, cable mount, Neutrik TRUE1 NAC3FX-W (female) P/N 91611789
- Power connector, cable mount, Neutrik TRUE1 NAC3MX-W (male)..... P/N 91611788

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



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TECHNICAL SPECIFICATIONS

DYNAMIC EFFECTS

Electronic 'shutter' effect	Strobe effect, pulse effects, instant open and blackout
Electronic dimming	0 - 100%, four dimming curve options
Color mixing	CMY, independently variable 0-100%
Color wheel	9 color filters plus open
Rotating gobo wheel	7 gobos plus open, wheel rotation, gobo rotation, indexing and shake
Static gobo wheel	9 gobos plus open, wheel indexing, rotation and shake
Iris	0-100%
Zoom	Motorized
Focus	Motorized
Framing	Rotatable framing module, +/- 45°, with 4 individually controllable full framing blades with variable angle and position.
Prism	Rotating/indexing three-facet prism
Pan	540°, coarse & fine control and speed
Tilt	260°, coarse & fine control and speed

CONTROL AND PROGRAMMING

Control options	DMX
16-bit control	Dimming, pan and tilt
Setting and addressing	Control panel with backlit LCD display
DMX channels	31
DMX compliance	USITT DMX512/1990
RDM compliance	ANSI/ESTA E1.20
Transceiver	Opto-isolated RS-485

OPTICS AND SOURCE

Front Lens Diameter	110 mm
Zoom range	10° - 30°
Light source	300W LED engine
Minimum LED lifetime	20000 hours (to >70% luminous output)*

*Manufacturer's figure obtained under manufacturer's test conditions

PHOTOMETRIC DATA

Light engine luminous output	15500 lumens
Fixture luminous output	6000 lumens
CRI (Color Rendering Index)	>91
CCT	3200 Kelvin
LED refresh rate	1200 Hz

CONSTRUCTION

Housing	High-impact flame-retardant thermoplastic
Color	Black
Protection rating	IP 20

GOBOS

Gobo diameter	26.8 mm +/- 0.2 mm (1.1 in. +/- 0.008 in.)
Maximum image diameter	19.0 mm (0.75 in.)
Gobo thickness, maximum	1.1mm borosilicate glass

INSTALLATION

Installation mounting points	Two quarter-turn brackets for rigging clamps
Orientation	Any

CONNECTIONS

AC power input, thru	Neutrik powerCON TRUE1
DMX data in/out	3-pin & 5-pin locking XLR

ELECTRICAL

AC power	100-240V nominal, 50/60 Hz
Power supply unit	Auto-ranging electronic switch mode

TYPICAL POWER AND CURRENT

120V, 60Hz	3.8A, 455W, PF 0.992
230V, 50Hz	1.96A, 442W, PF 0.968
Steady Power Consumption	44 W, all effects static, zero light output
Half-cycle RMS inrush current	6 A (at 230 V, 50 Hz)

Measurements made at nominal voltage with all LEDs at full intensity. Allow for a deviation of +/- 10%. PF = power factor.

THERMAL

Cooling	Forced air (temperature regulated, low noise)
Maximum ambient temperature (Ta max.)	40° C
Minimum ambient temperature (Ta min.)	0° C
Maximum surface temperature	70° C (158° F), steady state at 40° C ambient
Total heat dissipation	1550 BTU/hr. (calculated, +/- 10%)

APPROVAL

EU safety	EN 60598-2-17 (EN 60598-1), EN 62471, EN 62493
EU EMC	EN 55015; EN 55032; EN 55035; EN 61000-3-2,-3; EN 61547
US safety	UL 1573
US EMC	FCC Part 15 Class B
Canadian safety	CSA C22.2 No. 166
Canadian EMC	ICES-003 Class B, ICES-005 Class B
Australia/NZ	RCM
Global CB Certification/IECEE	IEC 60598-2-17 (IEC 60598-1)



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DIMENSIONS

PHYSICAL

Length..... 379 mm (14.9 in.)
Width..... 237 mm (9.3 in.)
Height..... 632 mm (24.9 in.)
Weight..... 22.5 kg (49.6lbs)

