

ERA 800 Performance

800W LED BASED PROFILE WITH FRAMING AND CMY COLOR MIXING

SPEC SHEET



Designed to fulfill the demand for an ultra-bright, compact, tour-worthy moving head, the Martin ERA 800 Performance combines a feature-loaded and rugged, yet cost-efficient profile for entertainment and rental applications.

It features a highly efficient, super-bright 800W white LED engine that produces a bright, sharp 6,500K gobo projection with a flat field. Additional key benefits include 1:8 zoom, electronic dimming and strobe, full CMY color mixing and separate color wheel, variable color temperature control, animation 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 two included rotating prisms and soft and heavy frost filters.

Perfect for big, stadium-sized stage and live productions, the Martin ERA 800 Performance is ideal for a long list of scenarios, requiring an extremely bright, yet 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 ± 60 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.

800 WATT LED LIGHT SOURCE

With an efficient 800 watt light source, the ERA 800 Performance 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.

GREAT COLOR PALETTE

Precise color temperature control with variable color temperature correction (CTO). Vibrant CMY color mixing from light and smooth pastels to rich, saturated primaries. The color wheel produces nice color splits, fast color bumps & extends overall color gamut and brightness.

1:8 ZOOM RANGE

With 7 to 56 degrees of zoom, the ERA 800 Performance works great even on larger trim heights. Zooming is fast and accurate and maintains a high output throughout the range.

COMPACT AND DESIGNED FOR THE ROAD

The ERA 800 Performance 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 800 watt / 6,500K LED light source
- 34,000 lumen output
- Crisp optics with flat field
- Fat beam look with 160 mm front lens
- 1:8 Fast zoom
- CMY color mixing - Vibrant color mixing with a superior palette of colors
- Linear CTO - Daylight to tungsten CCT control and expansion of the CMY palette
- 6-slot color wheel -for added color choice and split color effects
- Full Curtain Framing blades with +/- 60° rotation of entire system for flexible shape generation
- 6 rotating/indexing gobos - All renowned Martin glass gobos
- 7 static gobos for great morphing effects
- Animation wheel with continuous bi-directional rotation
- Iris - Fast and tight iris
- Two prisms - 4-facet and linear - rotation and index control for dynamic effects
- Soft frost - A light frost leaves gobo artwork visible with a beautiful soft edge.
- Heavy frost - for wash light effects
- Compact and low weight design

ORDERING INFORMATION

- Martin ERA 800 Performance in cardboard box.... P/N 9025122052
- Martin ERA 800 Performance - White in cardboard box..... P/N 9025122053
- Flightcase, two unit for ERA 800 P/N 91512255

INCLUDED ITEMS

- 2 x Omega brackets for rigging clamp attachment, TÜV approved

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 temperature control	Variable 6500 - 2700 K
Color wheel.....	6 color filters plus open
Rotating gobo wheel.....	6 gobos plus open, wheel rotation, gobo rotation, indexing and shake
Static gobo wheel	7 gobos plus open, wheel indexing, rotation and shake
Gobo animation.....	Animation wheel, indexing, continuous rotation with variable speed and direction
Iris.....	0-100%
Zoom	Motorized
Focus.....	Motorized
Framing.....	Rotatable framing module, +/-60°, with 4 individually controllable full framing blades with variable angle and position.
Prism.....	2 rotating/indexing prisms (4-facet circular prism and 6-facet linear)
Frost.....	Soft frost effect and heavy frost effect
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	42
DMX compliance	USITT DMX512/1990
RDM compliance.....	ANSI/ESTA E1.20
Transceiver	Opto-isolated RS-485

OPTICS AND SOURCE

Front Lens Diameter	160 mm
Zoom range.....	7° - 56° (1:8)
Light source	800W 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.....	70000 lumens
Fixture luminous output.....	34000 lumens
CRI (Color Rendering Index)	>70
CCT.....	6500 Kelvin (+/- 350K)
LED refresh rate.....	3600 Hz

CONSTRUCTION

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

GOBOS

Gobo diameter	30.0 mm +/- 0.2 mm (in. +/- 0.008 in.)
Maximum image diameter.....	25.0 mm (0.98 in.)
Gobo thickness, maximum.....	1.1 mm (0.04 in.)

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	5-pin locking XLR

ELECTRICAL

AC power.....	100-240V nominal, 50/60 Hz
Power supply unit	Auto-ranging electronic switch mode
Steady Power Consumption	94 W, all effects static, zero light output
Half-cycle RMS inrush current	52.3 A (at 230 V, 50 Hz)

TYPICAL POWER AND CURRENT

120V, 60Hz	10.8A, 1270W, PF 0.99
230V, 50Hz	5.5A, 1240W, PF 0.97

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, steady state.....	75° C (167° F) at 40° C ambient
Total heat dissipation	4340 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..... 431 mm (17in.)
Width..... 290 mm (11.4in.)
Height..... 801 mm (31.5in)
Weight..... 39.5 kg (87.1lbs)

