

MAMBA



AYRTON
Digital Lighting

**Illuminance
at 10 m****2,600,000****Kelvin****9000****CRI****>67****Zoom****0.7° - 15°**

MAMBA

Laser Source IP65 6 Series

014570

After the global triumph of Cobra—sold in thousands across the world—Ayrton unveils Mamba, a groundbreaking, versatile lighting concept. Equipped with a laser source twice as powerful, Mamba delivers a multitude of breathtaking new psychedelic effects that are nothing short of spectacular. Mamba boasts unmatched graphic capabilities, featuring 18 motors dedicated solely to effect creation. It offers a vast selection of 92 fixed and rotating metal gobos across two wheels, specifically designed to sculpt light in “beam” mode. An endlessly rotating ovoid animation wheel adds to its dynamic arsenal. The gobos can be paired with an initial level of two palettes, each containing four individually rotating prisms that can be combined. These can then be linked to a second level of four combinable prisms situated at the front of the fixture, enabling the creation of a multitude of complex volumetric effects. Completing its graphic toolkit are two Frost filters. Mamba introduces a highly innovative colour section, including a brand-new high-definition gradient CMY mixing system and an instant-access multi-position wheel equipped with 15 complementary colour filters, two multicolour filters, two CTP correctors, a variable CTO, and three multicolour sections—RGB, CMY, and RGB+CMY—spread over two concentric circles.

Fitted with a 250 mm front lens, the proprietary 13-lens optical system offers a 21 x zoom range and an operating span from 0.7° to 15°, pushing the boundaries of beam definition with a native contrast unparalleled by any digital light source. Mamba features an extreme focusing range that allows you to adjust the beam shape based on the operating distance. With continuous pan and tilt rotation multiplying the possibilities for creating complex effects, this fixture becomes a universal tool capable of tackling any challenge in any condition. Developed as a versatile fixture, Mamba operates flawlessly both outdoors and indoors—even in saline environments—while maintaining full accessibility and an incredible weight of just 41 kg. It's equipped with a sun protection system and an integrated heating system that withstands temperatures as low as -20 °C (-4 °F).

OPTICS

- 13-element 21:1 zoom
- Beam aperture: 0.7° to 15°
- 250 mm front lens

LIGHT SOURCE

- Laser phosphore engine
- Luminaire output: 2,600,000 lux at 10m
- Colour temperature output: 9000 K
- CRI: greater than 67
- Rated life (L70): up to 12,000 hours
- Speckle-free source

MOVEMENT

- Highly accurate positioning
- Resolution 8- or 16-bit
- Smooth movement
- Pan and tilt automatic repositioning
- Range: infinite pan and tilt rotation

COLOURS

- Sophisticated CMY colour mixing
- Variable CTO
- 15 complementary colours
- 2 minus green filters
- 2 multicolour filters
- 3 coloured animation sections

GOBOS

- 12 indexable rotating quartz glass gobos
- Adjustable-speed rotating gobo
- 80 fixed metal gobos
- Rotating gobo diameter: 6.9 mm
- Image diameter: 4.0 mm

FROST

- 2 frost filters: one light, one heavy

EFFECTS

- Focusable graphic animation effect-wheel
- Continuous rotation in both directions

DIMMER / STROBE

- Electronic dimmer from 0 to 100%
- Strobe effect: 1 to 25 flashes per second

HARDWARE FEATURES

- Graphic LCD display with flip function
- 5 menu buttons to set functions
- Integrated wireless LumenRadio™ receiver
- IP65 XLR 5 pin connectors
- IP65 RJ45 connectors
- IP65 powerCON TRUE1 TOP connectors

CONTROL

- DMX 512 protocol
- DMX-RDM compatible
- Stand-alone mode, local control panel
- ArtNet™ & sACN protocol
- 47 DMX channels

POWER SUPPLY

- 100 to 240 Volts – 50/60Hz
- Power: 800 W maximum

COOLING SYSTEM

- Advanced liquid cooling system
- IP68 Self-adjusting variable speed fans
- Selectable ventilation user modes
- Excess temperature protection

HOUSING

- Skeleton made of aluminium
- Base in die-cast aluminium
- Heatsinks in aluminium and copper
- Moulded covers ABS PC (VO class)
- 4 handles on the yoke
- Four heavy-duty feet
- IP65 protection rating
- Exterior finish: black (Carbon)

INSTALLATION

- 2 Omega ¼ turn brackets
- Four ¼ turn mounting points
- Safety cable attachment point

OPERATING PARAMETERS

- Maximum permitted: 45 °C (113 °F)
- Minimum permitted: -20 °C (-4 °F)
- Minimum usage distance: 35 m (114.83 ft)

COMPLIANCE

- EMC Directive 2014/30/EU
- LVD Directive 2014/35/EU
- US Safety: UL 1573 & FCC Part 15, Subpart B: 2018

SIZE

- Product: 404 x 749 x 366 mm (l x h x d)
- Foam: 680 x 640 x 500 mm (l x h x d)

WEIGHT

- Product: 41 kg

PRODUCT CODE

- 014570: MAMBA



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www.ayrton.eu