

MAMBA

Graphical rhapsody



AYRTON
Digital Lighting

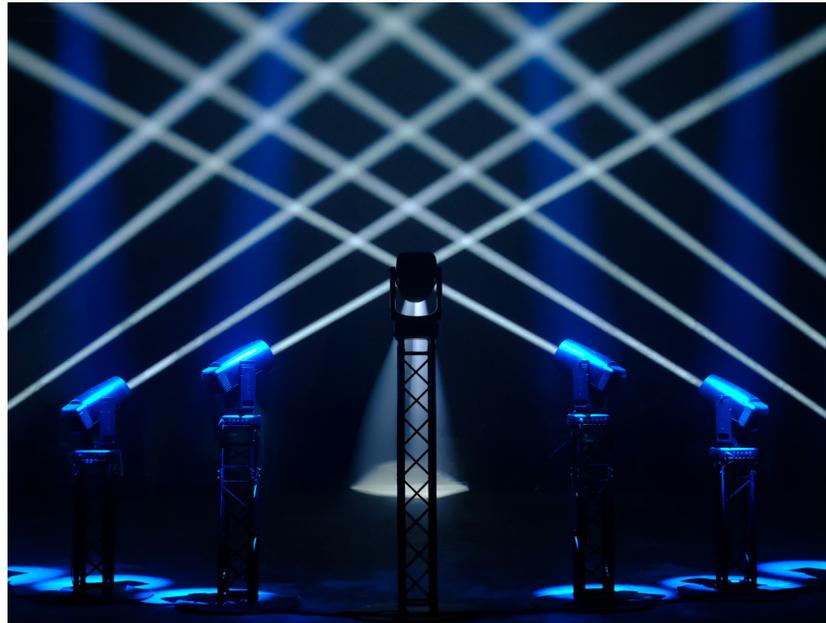


MAMBA graphical rhapsody

After the global triumph of Cobra, sold in thousands across the world, Ayrton is proud to unveil a groundbreaking, versatile lighting concept. A projector equipped with a laser source twice as powerful, capable of delivering a multitude of breathtaking new psychedelic effects that are nothing short of spectacular.



Ayrton presents Mamba, a feat of engineering and design. Its XXL 250 mm lens is seamlessly integrated into a sleek and refined body, delivering a unique visual signature that redefines the standards of the laser range. Mamba is designed for scenic applications. It can deliver powerful metallic white light with a record luminous intensity and a colour temperature of 9000 K. Mamba features an extreme focusing range that allows you to adjust the beam shape based on the operating distance. The proprietary 13-lens optical system offers a 21 times 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.



6 Series

500 W

Illuminance at 10 m

2,600,000 lux

Beam aperture

0.7° to 15°

Front Lens

250 mm

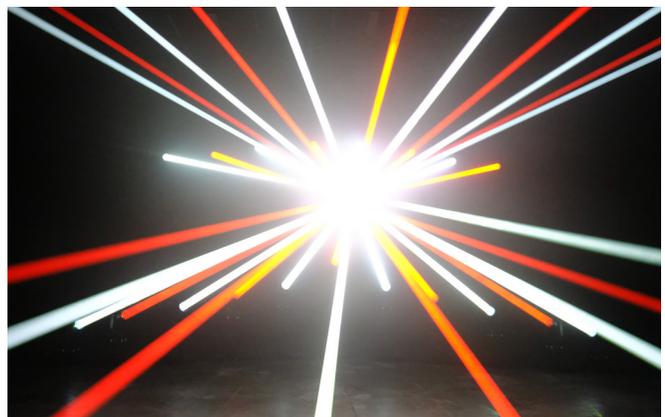
Weight

41 kg



Is this the real life? Is this just fantasy?

Mamba boasts unmatched graphic capabilities, featuring 18 motors dedicated solely to effect creation. It offers a vast selection of 92 fixed and rotating 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.



Open your eyes, look up to the skies and see

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 progressive CTO, and three multicolour sections—RGB, CMY, and RGB+CMY—spread over two concentric circles.

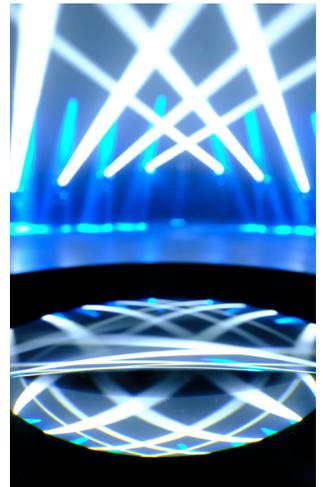
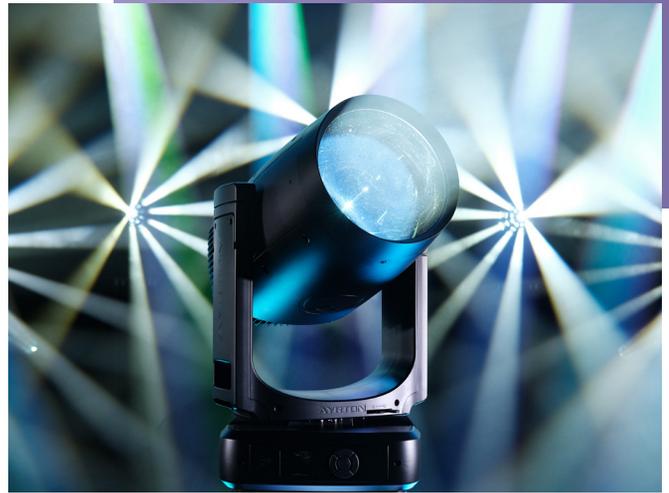
Continuous pan and tilt rotation multiplying the possibilities for creating complex effects, this fixture becomes a universal tool capable of tackling any challenge in any condition.



zoom ratio
0.7 to 15°



92 fixed and rotating gobos



Feel free to compose your own visual rhapsody

Mamba features a dual cooling system adapted to this type of source. 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.

XXL 250 mm
lens





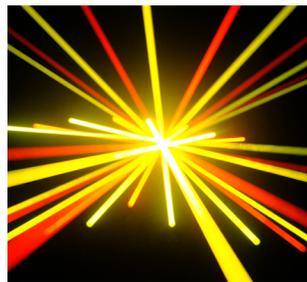
Mamba boasts **unmatched graphic capabilities**

In the endless pursuit of psychedelic experiences

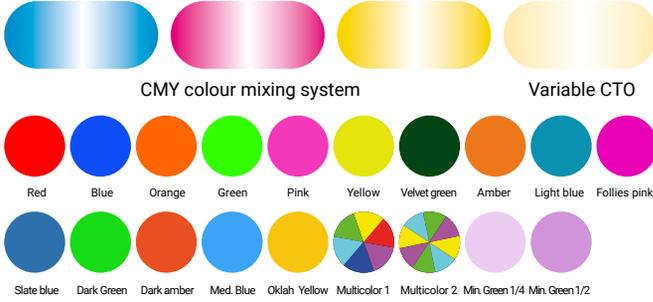
With Mamba, it's the first time a laser luminaire has delivered such a wealth of graphic possibilities. The meticulous attention to detail in Mamba's design embodies Ayrton's unwavering commitment to excellence. A flawless harmony of cutting-edge technology and bold design.



2,600,000
lux at
10 meters

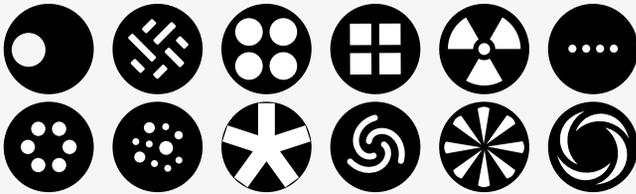


Colours

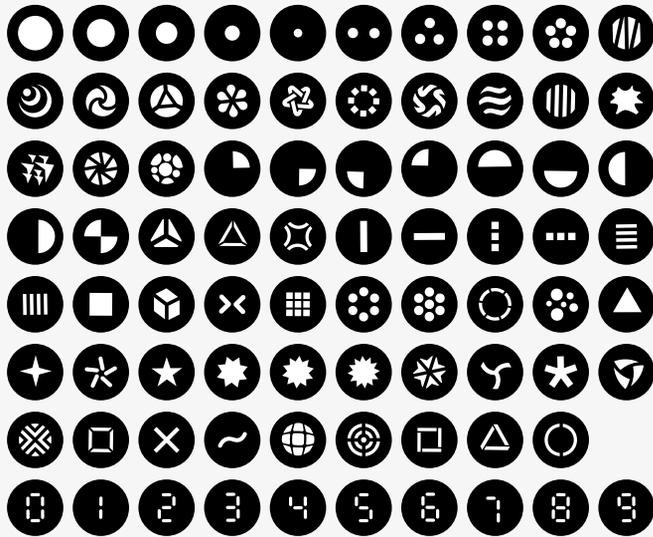


Gobos

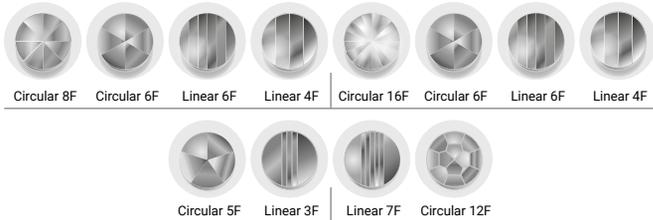
Rotating Gobos Gobos Ø: 6.9 mm | Image Ø: 4 mm



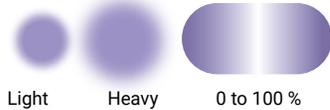
Fixed Gobos Image Ø: 4 mm



Combinable prisms



Frost filters



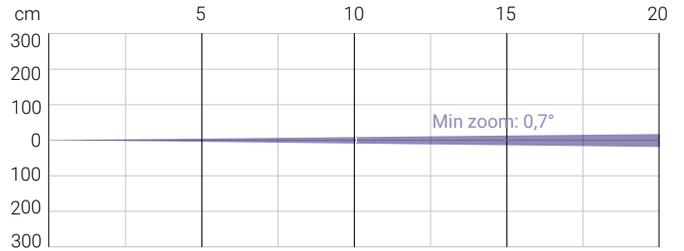
Dimmer



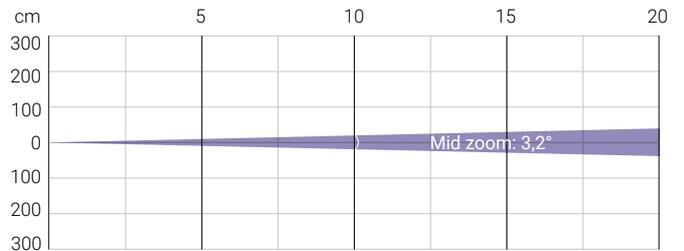
Effects wheel



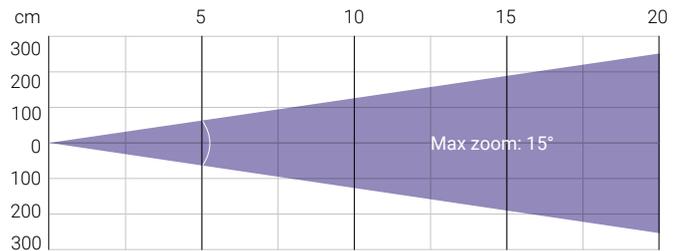
Photometry



| Distance (m) | 5 | | 10 | | 15 | | 20 | |
|--------------|------------|------|-----------|------|-----------|------|---------|------|
| Unit | lux | Ø | lux | Ø | lux | Ø | lux | Ø |
| White | 10,400,000 | 0.06 | 2,600,000 | 0.12 | 1,155,556 | 0.18 | 650,000 | 0.24 |



| Distance (m) | 5 | | 10 | | 15 | | 20 | |
|--------------|---------|------|---------|------|--------|------|--------|------|
| Unit | lux | Ø | lux | Ø | lux | Ø | lux | Ø |
| White | 616,627 | 0.28 | 154,157 | 0.56 | 68,514 | 0.84 | 38,539 | 1.12 |



| Distance (m) | 5 | | 10 | | 15 | | 20 | |
|--------------|--------|------|--------|------|-------|------|-------|------|
| Unit | lux | Ø | lux | Ø | lux | Ø | lux | Ø |
| White | 73,857 | 1.32 | 18,464 | 2.63 | 8,206 | 3.95 | 4,616 | 5.27 |

| | | |
|------------------|-----------------------------------|--|
| Total Flux | 20,400 lm (midd zoom, Stage mode) | |
| CCT @Laser engin | 9700 K (±400K) | |
| CCT @open | 9000 K (±900K) | |
| Ra @open | 67 (±2) | |
| TLCI | 32 | |
| TM-30 | Rf: 62 / Rg:83 | |

| Fan Mode | Noise Level (dBA) | Flux (lm) |
|---------------|-------------------|-----------|
| Auto Mode | 46.7 | 17,000 |
| Stage Mode | 49.4 | 17,100 |
| Silence Mode | 41.3 | 13,100 |
| Super Silence | 35.7 | 11,400 |

Note: noise measured at 1m distance, static status, ambient 31dBA

OPTICS

- 13-element 25:1 zoom high-resolution optic system
- Beam aperture: 0.7° to 15°
- Fast motorised linear zoom
- Tempered anti-reflective coated lenses
- 250 mm frontal lens for greater performance

LIGHT SOURCE

- Luminous flux: 2,600,000 lux at 10 m
- Colour temperature output: 9000 K
- Rated life (L70): up to 12,000 hours
- Speckle-free source

MOVEMENT

- Highly accurate positioning
- Moving-head operated via either 8- or 16-bit resolution
- High-resolution stepper motors operated via microprocessors to ensure extreme accuracy and smooth movement
- Pan and tilt automatic repositioning
- Moving-head range: infinite pan and tilt rotation

COLOURS

- Sophisticated colour mix system providing CMY color mixing
- Static colour wheel with variable CTO, 15 complementary colour filters, 2 minus green filters, 2 multicolour filters and 3 coloured animation sections

GOBOS

- One indexable rotating gobo wheels with 12 glass gobos, plus open position
- Adjustable-speed rotating gobo in both directions
- Fixed multi-position gobo wheel with instant access to 80 metal gobos
- Gobo diameter: 6.9 mm
- Image diameter: 4 mm

FROST

- 2 frost filters: one light, one heavy

EFFECTS

- Monochromatic graphical animation effects wheel with continuous rotation in both directions
- 2 set of 4 combinable rotating and indexable prisms
- 2 extra set of 2 combinable rotating and indexable prisms

DIMMER / STROBE

- Electronic dimmer, allowing perfect light adjustment from 0 to 100% without colour variation
- Strobe effect, with speed adjustment from 1 to 25 flashes per second

SOFTWARE FEATURES

- Local DMX addressing of luminaire and optional parameters through its built-in LCD control panel
- Remote DMX addressing of luminaire and optional parameters through a standard RDM DMX controller
- Information menu including hour counter, temperature, software version

HARDWARE FEATURES

- Graphic LCD display for addressing and special functions settings, with flip function
- 5 menu buttons to set functions
- Excess temperature protection
- Integrated wireless CRMx TiMo RDM receiver from LumenRadio
- IP65 XLR-5 pin male and female connectors for DMX connection
- IP65 RJ45 IN / OUT connectors for ArtNet connection
- IP65 powerCON TRUE1 TOP male connector for power connection

CONTROL

- DMX 512 protocol, through DMX cable or a wireless system
- DMX-RDM compatible
- Stand-alone mode and Master/Slave modes
- ArtNet & sACN protocol through Ethernet cable
- Local control panel, with IP65 LCD display
- Footprint of 47 DMX channels

POWER SUPPLY

- Electronic supply with active PFC
- 100 to 240 Volts – 50/60Hz
- Power: 800 W maximum

COOLING SYSTEM

- Advanced liquid cooling system
- Self-adjusting variable speed fans for quiet operation (Auto mode)
- Selectable ventilation user modes with a new Silent Mode
- Safety protection against excess temperature

HOUSING

- Moving-head skeleton made of aluminium and steel metal plates
- Base in die-cast aluminium
- Heatsinks in aluminium and copper
- Moulded covers in self-extinguishing fire retardant ABS PC (V0 class)
- Two-side handles for transportation
- Four heavy-duty feet for better stability
- IP65 protection rating
- Exterior finish: black (Carbon)

INSTALLATION

- Fastening bracket system: two Omega ¼ turn brackets designed for use with standard clamps
- Mounting points: four ¼ turn locking fittings allowing installation of Omega brackets on luminaire
- Safety cable attachment point

OPERATING PARAMETERS

- Operating positions: all (device on floor or fixed to a support)
- Maximum permitted ambient temperature (Ta max): 45° C (113° F)
- Minimum permitted ambient temperature (Ta min): -20° C (14° F)
- Minimum usage distance: 35m (114.83 ft)

COMPLIANCE

EU (EMC & LVD):

- EMC Directive 2014/30/EU
- LVD Directive 2014/35/EU

US (Safety & EMC)

- UL 1573
- FCC Part 15, Subpart B:2018

SIZE

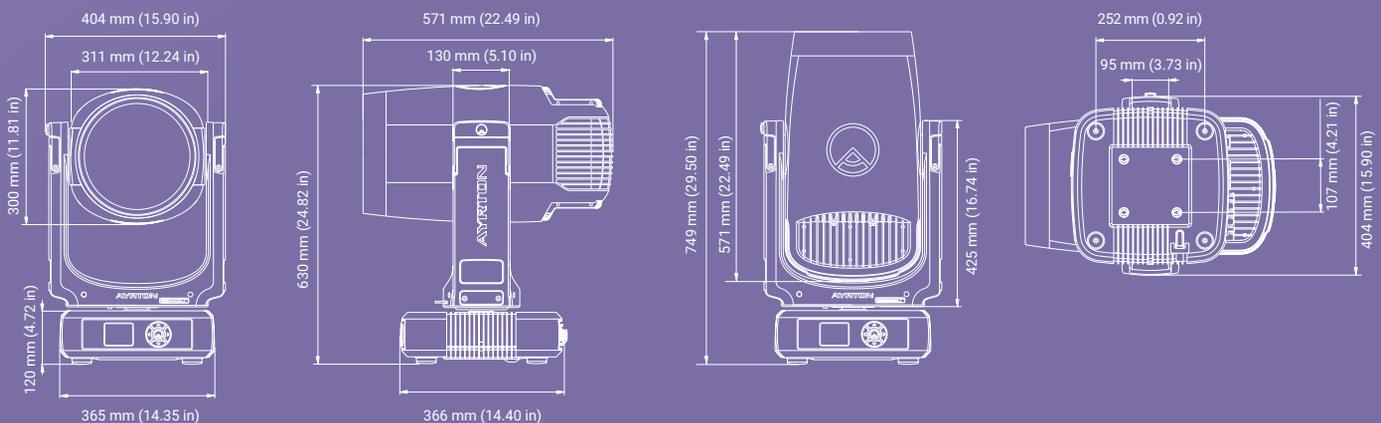
- Product: 404 x 749 x 366 mm (l x h x d)
- Flight-case foam: 680 x 640 x 500 mm (l x h x d)

WEIGHT

- Product: 41 kg

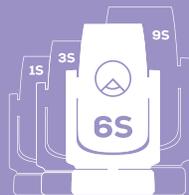
PRODUCT CODES

- 014570: MAMBA - LASER SOURCE IP65 6 SERIES





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Digital Lighting



www.ayrton.eu

01.2025