



MISTRAL

Ayrton has once again pushed the limits with Mistral™. A versatile, new fully equipped 300W spot luminaire in the same ultra-compact format as Merak. Its new 13-lens proprietary optical system delivers a 8:1 zoom ratio with a zoom range of 6.7° to 53°. The optics, equipped with a 119 mm frontal lens, can achieve an extremely uniform flat beam that can render images perfectly in all conditions and at any beam angle. Mistral comes in two versions, each to meet the specific requirements of lighting professionals. Mistral-S is designed for scenic applications. It is equipped with a new LED module, delivering powerful metallic white light with record-breaking output of 18,000 lumens and a colour temperature of 6500 K. Devised specifically for applications that require perfect

OPTICS

- 13 elements 8:1 zoom high-resolution optic system
- Beam aperture: 6.7° to 53°
- Fast motorised linear zoom
- Tempered anti-reflective coated lenses
- 119 mm front lens for ultimate performance

LIGHT SOURCE

MISTRAL-S

- 26,000 lumens 8000 K white light engine
- Total luminaire output: up to 18,000 lumens
- Colour temperature output: 6500 K
- CRI: greater than 70

MISTRAL-TC

- 21,000 lumens 7000 K white light engine
- Total luminaire output: up to 14,000 lumens
- Colour temperature output: 5700 K
- CRI: greater than 90

MISTRAL-S & MISTRAL-TC

- Rated life (L70): up to 40,000 hours
- Flicker-free source management suitable for TV applications and all video-recorded events

MOVEMENT

- Extremely accurate positioning
- Moving-head operated via either 8- or 16-bit resolution
- High-resolution stepper motors operated via

microprocessors ensure extreme accuracy and smooth movements

- Pan and tilt with automatic repositioning
- Moving head range: 540° (pan), 270° (tilt)

COLOURS

- Sophisticated colour mix system providing CMY colour mixing
- Variable CTO colour temperature correction
- Fixed colour wheel with seven saturated colour filters

GOBOS

- Indexable rotating gobo wheel with 7 high precision glass gobos plus open position
- Adjustable speed rotating gobo in both directions
- Fixed gobo wheel with 9 high precision glass gobos plus open position
- Gobo diameter: 25.0 mm
- Image diameter: 20.0 mm
- Gobo thickness: 1.1 mm

IRIS DIAPHRAGM

- Fast iris diaphragme with adjustable dynamic effects
- Iris range : 15 to 100% open

FROST

- Light frost filter (Heavy frost filter in option)

EFFECTS

- Focusable graphic animation effect-wheel with continuous rotation in both directions
- 5-facet circular indexable rotating prism
- Sparkle effect: dynamic animation effect with speed and fade adjustment

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

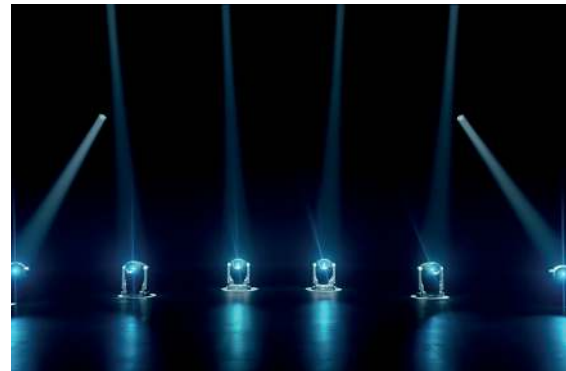
SOFTWARE FEATURES

- 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

300W Spot luminaire

colour reproduction, Mistral-TC is equipped with an entirely new LED module using a monochromatic light source with a native colour rendering index greater than 90, extremely high TM30 readings and a colour temperature of 5700 K.

Feature-rich from the factory. Mistral includes a CMY colour mixing system combined with a variable CTO and a seven-position complementary colour wheel for producing an infinite palette of vivid pastels and saturated colours. The effects section includes 16 interchangeable HD glass gobos on two wheels: one rotating wheel with seven positions and one fixed wheel with nine positions. Its continuous dynamic effects wheel can be used in combination with the two gobo wheels to create unique graphical effects. Mistral also features a 15-blade iris diaphragm, a five-facet rotating prism, and a soft-edge frost filter as standard equipment. Mistral has a highly efficient phase-change liquid cooling system using a heat pipe that includes a particularly effective Silent ventilation mode, designed for studio and theatre applications.



HARDWARE FEATURES

- Graphic LCD display for addressing and special functions settings, with flip function
- Clicking jog wheel to set functions
- Excess temperature protection
- Integrated wireless CRMX TiMo™ RDM receiver from LumenRadio™
- XLR 5 pin male and female connectors for DMX connection
- PowerCON TRUE1 male and female connectors for power connection

CONTROL

- DMX 512 protocol, through DMX cable or a wireless system
- DMX-RDM compatible
- Stand-alone mode and Master/Slave modes
- Local control panel, with LCD display
- Choice of 3 DMX modes (from 26 to 39 DMX channels)

POWER SUPPLY

- Electronic supply with active PFC
- 100 to 240 Volts – 50/60Hz
- Power: 450 Watt max

COOLING SYSTEM

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

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
- IP20 protection rating
- Exterior finish: black (Carbon)

INSTALLATION

- Fastening brackets 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): -10° C (14° F)
- Minimum usage distance: 1.5 m (4.92 ft)

COMPLIANCE

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

SIZE

- Product: 365 x 591 x 212 mm (l x h x d)
- Flight-case Foam : 450 x 620 x 280 mm (l x h x d)

WEIGHT

- Product: 18.9 KG

PRODUCT CODES

- 011240 : MISTRAL-S SPOT LUMINAIRE
- 011250 : MISTRAL-TC SPOT LUMINAIRE

LEGAL

- MISTRAL is AYRTON registered Trademark
- MISTRAL is a patented model