

MISTRAL-TC



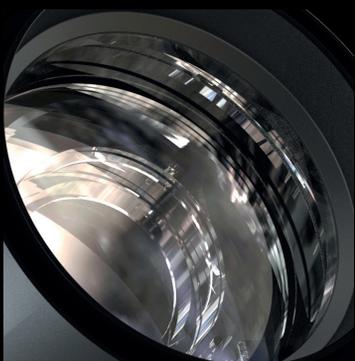
AYRTON
Digital Lighting

MISTRAL-TC AUTOMATED LUMINAIRE

Ayrton has once again pushed the limits with MISTRAL-TC – a versatile, new fully equipped 300 W spot luminaire in the same ultra-compact format as MERAK. Designed for applications that require perfect colour reproduction, MISTRAL-TC is equipped with an entirely new LED module using a monochromatic light source calibrated at 7,000K with a native colour rendering index greater than 90, and extremely high TM30 readings. This high-output, low-etendue light source module enables MISTRAL-TC to produce more than 14,000 lumens. 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 119mm frontal lens, can achieve an extremely uniform flat beam that can render images perfectly in all conditions and at any beam angle.



Feature-rich from the factory, MISTRAL-TC 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-TC also features a 15-blade iris diaphragm, a five-facet rotating prism, and a soft-edge frost filter as standard equipment. MISTRAL-TC 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.





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

- 20K low-etendue White Light Engine
- Total luminaire output: up to 14,000 lumens
- CRI: greater than 90
- Rated source life: up to 25,000 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 automatic repositioning
- Moving head range: 540° (PAN), 280° (TILT)

COLOURS

- Sophisticated colour mix system providing CMY colour mixing
- Variable CTO colour temperature correction
- Fixed colour wheel with six saturated colour filters and one CTB colour filter

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

IRIS DIAPHRAGM

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

EFFECTS

- Graphic animation effect wheel with continuous rotation in both directions
- 5-facet indexable rotating prism
- Soft edge frost filter (Hard edge frost filter in option)

DIMMER / STROBE

- Electronic dimmer, allowing perfect light adjustment from 0 to 100% without colour variation
- White or colour 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 DMX-RDM controller
- Information menu including hour counter, temperature & software version

HARDWARE FEATURES

- Graphic LCD Display for addressing and special functions settings, with flip function
- Clicking jog wheel to set the functions
- Over temperature protection
- XLR 5 pin male and female connectors for DMX connections
- PowerCON TRUE1 male and female connectors for power connection

CONTROL

- DMX 512 protocol, through DMX cable or wireless system
- Stand-alone Mode and Master/Slave Modes
- DMX-RDM compatible
- Integrated DMX-RDM wireless receiver from LumenRadio™
- Local control panel, with LCD display and clicking jog wheel
- DMX 512 Input / Output through XLR5 connectors
- 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 W max

COOLING SYSTEM

- Advanced cooling system
- Self adjusting variable speed fans for quiet operation
- 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
- Heatsinks in aluminium and copper, satin finish
- Moulded covers in self-extinguishing fire retardant ABS PC (V0 class)
- Two sides handles for transportation
- 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 two different installation of omega brackets on luminaire
- Safety cable attachment point

OPERATING PARAMETERS

- Operating positions: all
- Maximum permitted ambient temperature authorised (Ta max): 45°C (113°F)
- Minimum permitted ambient temperature authorised (Ta min): -10°C (14°F)
- Minimum usage distance: 1.5 m (59 inches)

COMPLIANCE

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

SIZE

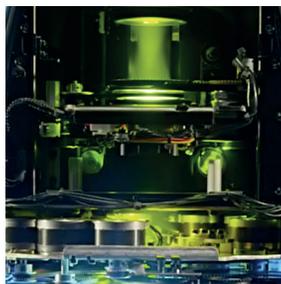
- Product: 365 x 591 x 211 mm (l x h x d)
- Flight-case Foam: 450 x 620 x 280 mm (l x h x d)

WEIGHT

- Product: 18.9 KG

PRODUCT CODES

- 011250: MISTRAL-TC AUTOMATED LUMINAIRE





AYRTON

Digital Lighting

www.ayrton.eu