

MERAK



AYRTON
Digital Lighting

MERAK AUTOMATED LUMINAIRE

Ayrton's new MERAK™ is a powerhouse of technology that features a proprietary 10:1 optical zoom system, combined with a 250 W low-etendue, RGBW multichip LED module. The 7° to 70° zoom employs light pipe technology paired with a new textured Fresnel lens design to ensure perfectly homogenous colour mixing regardless of the colour combination selected.

With its single-source transmitting lens, MERAK™ casts wonderfully crisp light and shadows. The fixture is also equipped with a de-focusable rotating beam shaping optic.



MERAK™ puts new technology to great use with a next-generation power supply that incorporates active power factor correction (PFC) and a DC/DC converter in an ultra-compact module for more than 95 percent efficiency. MERAK™ is equipped with a highly effective new phase-change liquid cooling system using vapour chamber technology, which permits the fixture to operate in all positions. These innovations allow the LED emitters to be run at full power continuously without any loss of performance. To celebrate Ayrton's 15th Anniversary, MERAK™ presents a sleeker, updated, industrial design, with perfectly straightened yoke arms, and minimalist base, as well as a new menu navigation system using a single control wheel. MERAK™ can be controlled via DMX-512 w/RDM or a wireless link using CRMX TiMo RDM from LumenRadio™.





OPTICS

- Motorized linear zoom system, ratio 10:1
- Beam aperture: 7° to 70°
- 168 mm textured Fresnel lens for ultimate performance
- High-efficiency optical system

LIGHT SOURCE

- 1 multi-chip 250 W LED sources
- Light output: up to 4,300 lumens
- Luminous intensity: 200,000 cd (narrow angle)
- Rated source life: up to 50,000 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), 270° (tilt)

COLOURS

- Sophisticated 4 colour RGBW mixing, reaching high Colour Rendering Index
- Uniform light beam with no colour shadows, and rich saturated and pastel colours hues
- 4.29 billion colours (8 bit resolution)
- Virtual colour wheel, including most usual white colour temperature presets
- Dynamic colour macro effect with variable speed

EFFECTS

- Indexable, de-focusable, rotating beam shaping optic

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 FACILITIES

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

HARDWARE FACILITIES

- Graphic LCD Display for setting address and special functions, with flip function
- Clicking jog wheel to set functions
- Over-heating protection
- Integrated LumenRadio™ wireless CRMx TiMo RDM receiver
- 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 wireless system
- DMX-RDM compatible
- Stand-alone mode and Master/Slave modes
- Local control panel, with LCD display
- Choice of 3 DMX modes (from 17 to 22 DMX channels)

POWER SUPPLY

- Electronic supply with active PFC
- 110 to 240 Volts – 50/60Hz
- Power 400 W max

COOLING SYSTEM

- Advanced liquid cooling system using vapour chamber technology
- Self adjusting variable speed fans for quiet operation (Auto mode)
- Selectable auto, stage & studio ventilation modes
- Safety protection against over-heating

HOUSING

- Moving head skeleton made of aluminium and steel metal plates
- Heatsinks in aluminium and copper with satin finish
- Moulded covers in self-extinguishing fire retardant ABS PC (V0 class)
- Two side handles for transportation
- Four strong feet for better stability
- IP20 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): -10°C (14°F)
- Minimum usage distance: 0.5 m (1.64 ft)

COMPLIANCE

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

SIZE

- Product: 365 x 555 x 385 mm (l x h x d)
- Flight-case foam: 450 x 585 x 280 mm (l x h x d)

WEIGHT

- Product: 13.8 KG

PRODUCT CODES

- 013550: MERAK AUTOMATED LUMINAIRE





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www.ayrton.eu