KHAMSIN

AYRTON
Digital Lighting

KHAMSIN AUTOMATED PROFILE LUMINAIRE

Ayrton has once again pushed the limits with a newly designed "profile" luminaire… Khamsin… squeezing a 750 W LED module into the highly compact Ghibli format, while offering 60% more light output. To make the luminaire this compact, AYRTON has completely redesigned its internal structure by using cast aluminium sides. The size of the cooling system also had to be dramatically reduced and made even more efficient. This high-end luminaire also features a double rotating gobo wheel on a single axis that will allow you to achieve astonishing high-definition morphing effects. Like all luminaires in the AYRTON product line, KHAMSIN is available in two versions: KHAMSIN-S is designed for scenic applications. It is equipped with a new LED module, delivering powerful metallic white light with record-breaking output of 40,000 lumens and a colour temperature of 6800 K. Devised specifically for applications that require perfect colour reproduction, KHAMSIN-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 6000 K.

In its quest for perfection, Ayrton has developed a fixture that will turn heads. With such a versatile and compact luminaire you can only imagine the creative possibilities! The proprietary optical system, fitted with 13 lenses, features a 158 mm frontal lens and delivers an 8:1 zoom ratio and a zoom range of 7° to 58°. The high-quality optics offer excellent image reproduction and produce an extremely uniform flat beam with no hot spot, ensuring a perfectly homogeneous colour mix regardless of the colour combination selected. Feature-rich from the factory, KHAMSIN includes a CMY colour mixing system, which, combined with a variable CTO and one wheel with six complementary colours, produces an infinite palette of vivid pastels and saturated colours. The framing section allows accurate positioning of four shutter blades on a 100% surface area in all positions, so that the user can frame any object regardless of the luminaire's position. The effects section includes two wheels with six interchangeable HD glass gobos; a continuous dynamic effects wheel; a 15-blade iris diaphragm; two frost filters: one light frost, one heavy frost; two rotating prisms: one circular with 5 facets, one linear with 4 facets. KHAMSIN is the perfect lighting solution for large venues, such as arenas and stadiums dedicated to major events.

OPTICS
- 13 elements 8:1 zoom high-resolution optic system
- Beam aperture: 7° to 58°
- Fast motorised linear zoom
- Tempered anti-reflective coated lenses
- 158 mm frontal lens for greater performance

LIGHT SOURCE
KHAMSIN-S
- 60,000 lumens 8000 K white light engine
- Total luminaire output: up to 40,000 lumens
- Colour temperature output: 6800 K
- CRI: greater than 70

KHAMSIN-TC
- 48,000 lumens 7000 K white light engine
- Total luminaire output: up to 31,000 lumens
- Colour temperature output: 6000 K
- CRI: greater than 90
- Rated life (L70): up to 40,000 hours
- Flicker-free source management suitable for TV applications and all video-recorded events

MOVEMENT
- Highly accurate positioning
- Resolution: 8- or 16-bit
- Smooth movement
- Pan and tilt with automatic repositioning
- Range: 540° (pan), 270° (tilt)

COLOURS
- Sophisticated CMY colour mixing
- Variable CTO
- 6 complementary colours

GOBOS
- 12 indexable rotating HD glass gobos
- Adjustable-speed rotating gobo
- Gobo diameter: 34.0 mm
- Image diameter: 24.0 mm
- Gobo thickness: 1.1 mm

FRAMING SYSTEM
- 4 individual shutter blades
- Positionable on 100% of the surface area
- Rotation of the module: +/- 45°

IRIS DIAPHRAGM
- 15-blade iris diaphragm
- Range: 15% to 100% open

FROST
- 2 frost filters: one light, one heavy

PRISMS
- 2 rotating and indexable prisms
- One 5-facet circular, one 4-facet linear

EFFECTS
- Focusable graphic animation effect-wheel
- Continuous rotation in both directions
- Sparkle effect: speed and fade adjustment

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

HARDWARE FEATURES
- Graphic LCD display with flip function
- Clicking jog wheel to set functions
- Integrated LumenRadio™ receiver
- XLR 5 pin connectors
- etherCON RJ45 connectors
- powerCON TRUE1 connector

CONTROL
- DMX 512 protocol
- DMX-RDM compatible
- Stand-alone mode, local control panel
- ArtNet™ & sACN protocol
- 3 DMX modes (40 to 64 DMX channels)

POWER SUPPLY
- 120 to 240 Volts – 50/60 Hz
- Power: 1,150 W maximum

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

HOUSING
- Skeleton in aluminium and steel plates
- Base in die-cast aluminium
- Moulded covers in ABS PC (V0 class)
- Two-side handles
- Four heavy-duty feet
- IP20 protection rating
- Exterior finish: black (Carbon)

INSTALLATION
- Two Omega ¼ turn brackets
- Eight ¼ turn mounting points
- Safety cable attachment point

OPERATING PARAMETERS
- Maximum temperature: 45 °C (113 °F)
- Minimum temperature: -10 °C (14 °F)
- Minimum usage distance: 2.0 m (6.56 ft)

COMPLIANCE
EU (EMC & LVD):
- EMC Directive 2014/30/EU
- LVD Directive 2014/35/EU

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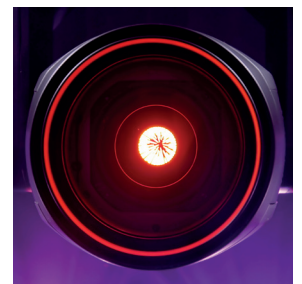- FCC Part 15, Subpart B: 2018

SIZE
- Product: 494 x 778 x 280 mm (l x h x d)
- Flight-case foam: 655 x 590 x 555 mm (l x h x d)

WEIGHT
- Product: 37.8 KG

PRODUCT CODES
- 010640: BORA-S AUTOMATED WASH LUMINAIRE
- 010650: BORA-TC AUTOMATED WASH LUMINAIRE

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