KHAMSIN

Ayrton has once again pushed the limits with a newly designed "profile" luminaire… Khamsin™… squeezing a 750-Watt L.E.D. 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 6500 K. Devised specifically for applications that require perfect colour reproduction, Khamsin-TC is equipped with an entirely new LED module using

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: 6500 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: 5700 K
- CRI: greater than 90
KHAMSIN-S & KHAMSIN-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 to ensure extreme accuracy and smooth movement
- 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 six complementary colours

GOBOS
- 2 indexable rotating gobo wheels with 6 high-precision glass gobos, plus open position
- Adjustable-speed rotating gobo in both directions
- Gobo diameter: 34.0 mm
- Image diameter: 24.0 mm
- Gobo thickness: 1.1 mm

FRAMING SYSTEM
- 4 individually positionable shutter blades on a 100% surface area in all positions
- Rotation of the framing system module: +/- 45°

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

FROST
- 2 frost filters: one light, one heavy

EFFECTS
- Focusable graphic animation effect-wheel with continuous rotation in both directions
- 2 rotating and indexable prisms: one 5-facet circular, one 4-facet linear
- 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
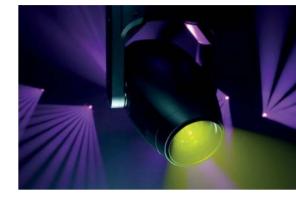
SOFTWARE FEATURES
- Local DMX addressing of luminaire and optional parameters through its built-in LCD control panel
- Remote DMX addressing of luminaire and optional parameters through a standard RDM DMX controller
- Information menu including hour counter, temperature, software version

750W Profile luminaire

a monochromatic light source with a native colour rendering index greater than 90, extremely high TM30 readings and a colour temperature of 5700 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.

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
- Ethercon RJ45 IN / OUT connectors for ArtNet™ connection
- PowerCON TRUE1 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 LCD display
- Choice of 3 DMX modes (from 39 to 63 DMX channels)

POWER SUPPLY
- Electronic supply with active PFC
- 100 to 240 Volts – 50/60Hz
- Power: 1,150 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: eight 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: 2.0 m (6.56 ft)

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

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: 39.8 KG

PRODUCT CODES
- 011640: KHAMSIN-S PROFILE LUMINAIRE
- 011650: KHAMSIN-TC PROFILE LUMINAIRE

LEGAL
- KHAMSIN is AYRTON registered Trademark
- KHAMSIN is a patented model

Specifications subject to change without notice.