

# KHAMSIN



**AYRTON**  
Digital Lighting



## KHAM SIN-S

## 750 W Profile luminaire

011640

AYRTON has once again pushed the limits with a newly designed “profile” luminaire... KHAM SIN-S... 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. 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.

KHAM SIN-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. Feature-rich from the factory, KHAM SIN-S 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. KHAM SIN-S is the perfect lighting solution for large venues, such as arenas and stadiums dedicated to major events.

## OPTICS

- 13-element 8:1 zoom
- Beam aperture: 7° to 58°
- 158 mm frontal lens

## LIGHT SOURCE

- 60,000 lumens 8000 K light engine
- Luminaire output: up to 40,000 lumens
- Colour temperature output: 6500 K
- CRI: greater than 70
- Rated life (L70): up to 40,000 hours
- Flicker-free source

## 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 gobo
- 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

- Operating positions: all
- Maximum temperature: 45 °C (113 °F)
- Minimum temperature: -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)
- Foam: 655 x 590 x 555 mm (l x h x d)

## WEIGHT

- Product: 39.8 kg

## PRODUCT CODE

- 011640: KHAMISIN-S



## KHAM SIN-TC

## 750 W Profile luminaire

011650

AYRTON has once again pushed the limits with a newly designed “profile” luminaire... KHAM SIN-TC... 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. 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.

Devised specifically for applications that require perfect colour reproduction, KHAM SIN-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, KHAM SIN-TC 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. KHAM SIN-TC is the perfect lighting solution for large venues, such as arenas and stadiums dedicated to major events.

## OPTICS

- 13-element 8:1 zoom
- Beam aperture: 7° to 58°
- 158 mm frontal lens

## LIGHT SOURCE

- 48,000 lumens 7000 K light engine
- Luminaire output: up to 31,000 lumens
- Colour temperature output: 5700 K
- CRI: greater than 90
- Rated life (L70): up to 40,000 hours
- Flicker-free source

## MOVEMENT

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

## COLOURS

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