



DIABLO

Ayrton's latest innovation, Diablo™, is a versatile, feature-rich 300-Watt profile luminaire based on the ultra-compact Mistral format. The company has taken on the ambitious challenge of making Diablo the smallest, lightest and most efficient luminaire of its category. With a record output of 19,000 lumens and a total weight of 21.8 kg, Diablo is a powerhouse of technology that will tempt the most demanding lighting designers. To achieve its objective, Ayrton has miniaturised the framing system while maximizing the performance level. As in other profile luminaires of the product line, the framing section allows accurate positioning of its 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. A new ultra-compact high-output 550 W power supply feeds eight additional motors in the framing system, fitting into the original Mistral format.

OPTICS

- 13-element 8:1 zoom high-resolution optic system
- Beam aperture: 6.7° to 53°
- Fast motorised linear zoom
- Tempered anti-reflective coated lenses
- 119 mm frontal lens for greater performance

LIGHT SOURCE

DIABLO-S

- 26,500 lumens, 8000 K white-light engine
- Total luminaire output: up to 19,000 lumens
- Colour temperature output: 6500 K
- CRI: greater than 70

DIABLO-TC

- 20,500 lumens 7000 K white-light engine
- Total luminaire output: up to 14,000 lumens
- Colour temperature output: 5700 K
- CRI: greater than 90

DIABLO-S & DIABLO-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 with 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 seven complementary colours

GOBOS

- Indexable rotating gobo wheel with 7 high-precision glass gobos, plus open position
- Adjustable-speed rotating gobo in both directions
- Gobo diameter: 25.0 mm
- Image diameter: 20.0 mm
- Gobo thickness: 1.1 mm

FRAMING SYSTEM

- 4 individually positionable shutter blades
- Rotation of the framing system module: +/- 45°

IRIS DIAPHRAGM

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

FROST

- Heavy frost filter
- Light frost filter (optional)

EFFECTS

- Graphic animation effect-wheel with continuous rotation in both directions
- 5-facet circular indexable rotating prism
- 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
- White or colour strobe effect, with speed adjustment from 1 to 25 flashes per second

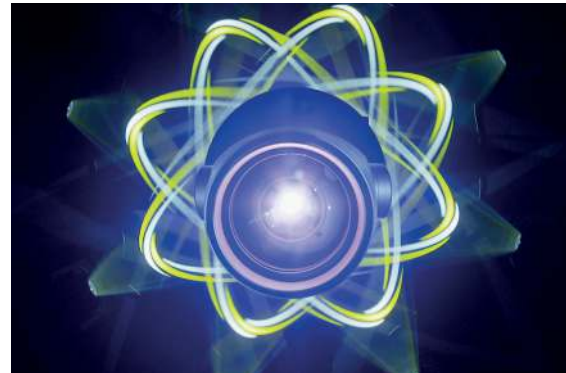
SOFTWARE FEATURES

- Local DMX addressing of luminaire and optional parameters through a 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

300W Profile luminaire

Diablo borrows the same 13-element proprietary optical system delivering an 8:1 zoom ratio with a zoom range of 6.7° to 53°. The 119 mm frontal lens can produce an extremely uniform flat beam that can render images perfectly in all conditions and at any beam angle.

Diablo is available in two versions: S and TC. Diablo-S, specially designed for stage applications, is equipped with a monochromatic LED light source that can generate extremely high output and metallic white light calibrated at 6500 K. Diablo-TC is geared for applications that require perfect colour rendition, using a monochromatic light source with a native colour rendering index greater than 90 and high TM30 readings, at a colour temperature of 5700 K. Fully equipped at the factory, Diablo includes a CMY colour mixing system combined with a progressive CTO and a wheel with seven complementary colours that produces an infinite palette of bright pastels and saturated colours. The effects section includes a wheel with seven interchangeable HD glass gobos, a continuous dynamic effects wheel, a 15-blade iris diaphragm, a heavy frost filter and a five-facet circular rotating prism. Diablo has a highly efficient phase-change liquid cooling system using a heat pipe that includes a particularly effective ultra-silent ventilation mode, perfect for stage and studio applications.



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
- PowerCON TRUE1 male and female connectors for power connection

CONTROL

- DMX 512 protocol, through DMX cable or a wireless system
- DMX-RDM compatible
- Stand-alone mode and Master/Slave modes
- Local control panel, with LCD display
- Choice of 3 DMX modes (from 36 to 56 DMX channels)

POWER SUPPLY

- Electronic supply with active PFC
- 100 to 240 Volts – 50/60Hz
- Power: 550 W maximum

COOLING SYSTEM

- Advanced liquid cooling system
- Self-adjusting variable speed fans for quiet operation (Auto mode)
- Selectable ventilation user modes including 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
- Aluminium and copper heatsinks
- 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-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: 1.5 m (4.92 ft)

COMPLIANCE

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

SIZE

- Product: 365 x 591 x 212 mm (l x h x d)
- Flight-case foam: 430 x 660 x 280 mm (l x h x d)

WEIGHT

- Product: 21.8 KG

PRODUCT CODES

- 011340: DIABLO-S PROFILE LUMINAIRE
- 011350: DIABLO-TC PROFILE LUMINAIRE

LEGAL

- DIABLO is AYRTON registered Trademark
- DIABLO is a patented model