

# DIABLO



**AYRTON**  
Digital Lighting

**Lumens****19,000****Kelvin****7000****CRI****>70****Zoom****7° - 53°**

## DIABLO S

## Classical 3 Series

011340

AYRTON's latest innovation, DIABLO S, is a versatile, feature-rich 300 W profile luminaire based on the ultra-compact MISTRAL format. The company has taken on the ambitious challenge of making DIABLO S the smallest, lightest and most efficient luminaire of its category. With a record output of 19,000 lumens and a total weight of 22 kg, DIABLO S 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.

DIABLO S borrows the same 13-element proprietary optical system delivering an 8:1 zoom ratio with a zoom range of 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 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 7000 K. Fully equipped at the factory, DIABLO S 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 S 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.

## OPTICS

- 13-element 8:1 zoom
- Beam aperture: 7° to 53°
- 119 mm frontal lens

## LIGHT SOURCE

- 26,500 lumens 8000 K light engine
- Luminaire output: up to 19,000 lumens
- Colour temperature output: 7000 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), 263° (tilt)

## COLOURS

- Sophisticated CMY colour mixing
- Variable CTO
- 7 complementary colours

## GOBOS

- 7 indexable rotating HD glass gobos
- Adjustable-speed rotating gobo
- Gobo diameter: 25.5 mm
- Image diameter: 20.0 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

- Light frost filter (heavy frost filter in option)

## PRISM

- 5-facet circular prism
- Rotating and indexable

## EFFECTS

- Focusable graphic animation effect-wheel
- Continuous rotation in both directions

## 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
- powerCON TRUE1 connectors

## CONTROL

- DMX 512 protocol
- DMX-RDM compatible
- Stand-alone mode, local control panel
- 3 DMX modes (34 to 56 DMX channels)

## POWER SUPPLY

- 100 to 240 Volts – 50/60 Hz
- Power: 550 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
- Four 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: 1.5 m (4.92 ft)

## COMPLIANCE

- EMC Directive 2014/30/EU
- LVD Directive 2014/35/EU
- US Safety: UL 1573 & FCC Part 15, Subpart B: 2018

## SIZE

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

## WEIGHT

- Product: 22 kg

## PRODUCT CODE

- 011340: DIABLO S

**Lumens****14,000****Kelvin****6500****CRI****> 90****Zoom****7° - 53°**

## DIABLO TC

## Classical 3 Series

011350

AYRTON's latest innovation, DIABLO TC, is a versatile, feature-rich 300 W profile luminaire based on the ultra-compact MISTRAL format. The company has taken on the ambitious challenge of making DIABLO TC the smallest, lightest and most efficient luminaire of its category. With a record output of 14,000 lumens and a total weight of 22 kg, DIABLO TC 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.

DIABLO TC borrows the same 13-element proprietary optical system delivering an 8:1 zoom ratio with a zoom range of 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 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 very high TM30 readings, at a colour temperature of 6500 K. Fully equipped at the factory, DIABLO TC 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 TC 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.

## OPTICS

- 13-element 8:1 zoom
- Beam aperture: 7° to 53°
- 119 mm frontal lens

## LIGHT SOURCE

- 20,500 lumens 7000 K light engine
- Luminaire output: up to 14,000 lumens
- Colour temperature output: 6500 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), 263° (tilt)

## COLOURS

- Sophisticated CMY colour mixing
- Variable CTO
- 7 complementary colours

## GOBOS

- 7 indexable rotating HD glass gobos
- Adjustable-speed rotating gobo
- Gobo diameter: 25.5 mm
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## 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

- Light frost filter (heavy frost filter in option)

## PRISM

- 5-facet circular prism
- Rotating and indexable

## EFFECTS

- Focusable graphic animation effect-wheel
- Continuous rotation in both directions

## 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
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## CONTROL

- DMX 512 protocol
- DMX-RDM compatible
- Stand-alone mode, local control panel
- 3 DMX modes (34 to 56 DMX channels)

## POWER SUPPLY

- 100 to 240 Volts – 50/60 Hz
- Power: 550 W maximum

## COOLING SYSTEM

- Advanced liquid cooling system
- Self-adjusting variable speed fans
- Selectable ventilation user modes
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## HOUSING

- Skeleton in aluminium and steel plates
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- Two-side handles
- Four heavy-duty feet
- IP20 protection rating
- Exterior finish: black (Carbon)

## INSTALLATION

- Two Omega ¼ turn brackets
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- Safety cable attachment point

## OPERATING PARAMETERS

- Maximum temperature: 45 °C (113 °F)
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## COMPLIANCE

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## SIZE

- Product: 365 x 591 x 212 mm (l x h x d)
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## WEIGHT

- Product: 22 kg

## PRODUCT CODE

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[www.ayrton.eu](http://www.ayrton.eu)