

STRADALE PROFILE

Small in size, immense in power



AYRTON

Digital Lighting



Stradale Profile Small in size, immense in power

Leaving a lasting impression has always been in our DNA. When we launch a new luminaire, we push every boundary to ensure it delivers an unforgettable experience. We are proud to present the most compact, lightweight, and versatile luminaire in the Ultimate range.



An exceptional creation built around the unique concept of downsizing—minimising the fixture’s footprint while significantly enhancing its performance. A luminaire refined to perfection. Stradale Profile is the first ultra-compact luminaire in Ayrton’s brand-new 1 Series, seamlessly following in Rivale’s footsteps with a 15% reduction in visual footprint. Its design embodies the principle of perfect homothety that defines the Ultimate range. By once again redefining integration—optimising structure, reducing thickness, simplifying effect modules, and embracing extreme miniaturisation—Stradale Profile fully embraces the downsizing challenge. It impresses with its compact form and remarkable graphic capabilities.



Smaller footprint, greater creative freedom

Stradale Profile sets a new standard for integration with a high-efficiency, 330 W sealed LED module, precisely calibrated at 6500 K. Emitting an impressive 20,000 lm, its light aligns perfectly with the black body curve, ensuring impeccable neutrality. It delivers uncompromising performance. Engineered for all environments, it excels both indoors and outdoors—even in salt-laden conditions. Stradale Profile harnesses its lightweight build to achieve exceptional performance, offering greater creative flexibility.



140 mm
Front lens





Zoom ratio 13:1

A true powerhouse

Stradale Profile comes standard with infinite continuous rotation on both pan and tilt axes. Equipped with a 140 mm front lens, its proprietary 13-lens optical system delivers a 13:1 zoom ratio with a range from 4° to 52°. Stradale Profile introduces an innovative, ultra-fast progressive CMY colour-mixing system with a seamless gradient disc, producing brighter colours and ensuring perfect uniformity. A progressive CTO ensures precise colour temperature control, enhanced by a 7-position colour wheel with specialised filters for limitless creative expression. For enhanced adaptability, Stradale Profile features a variable colour rendering index, allowing precise CRI adjustment to suit diverse applications.



1 Series Source
330 W - 6500 K

Zoom Aperture
4° to 52°

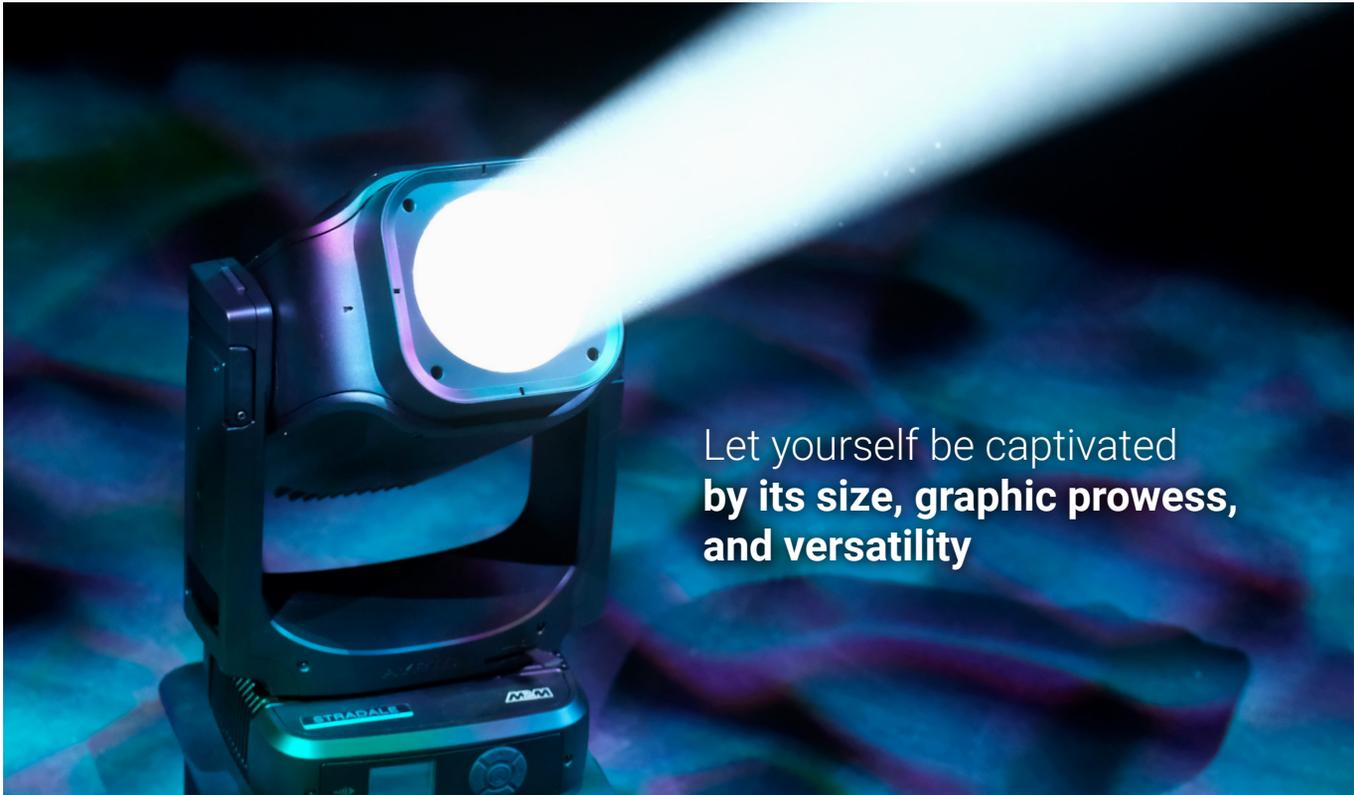
Luminous Flux
20,000 lm

Front Lens
140 mm

Weight
23.5 kg

Variable CRI
70 to 86





Let yourself be captivated
by its size, graphic prowess,
and versatility



Infinite
pan and tilt
rotation

A luminaire full of surprises

The framing system enables exact positioning of each shutter blade across 100% of the beam, with a $\pm 90^\circ$ rotation, ensuring flawless framing in any orientation. Stradale Profile delivers an ultra-intense, tight beam for a luminaire of this category. A rapid 15-blade iris, adjustable from 15% to 100%, refines the beam for precise and intense projection. The image section of Stradale Profile features 19 high-definition glass gobos across two wheels. The effects section features a monochrome animation wheel and two combinable rotating prisms: a circular 5-facet prism and a linear 4-facet prism, designed for striking 3D effects. A new multi-colour filter, combined with a distortion gobo, creates breathtaking visual effects. Stradale Profile includes two Frost filters: a light diffusion filter that softens edges without altering the beam angle, and a heavy diffusion filter for full Wash mode.



Colours



CMY colour mixing system



Variable CTO / CRI improvement filter

Multi-color filter



1/4 CTB Magenta Congo Blue Green Orange Blue Red

Gobos

Gobos Ø: 18 mm | Image Ø: 13 mm

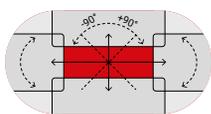
Rotating Gobos



Fixed Gobos



Framing system



100% surface area

Iris diaphragm



15% to 100% open

Frost filters



Light

Heavy

Effects wheel



Monochromatic

Prisms



Circular

Linear

Dimmer



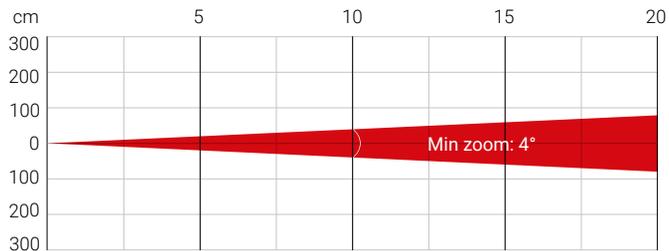
0 to 100 %

Strobe

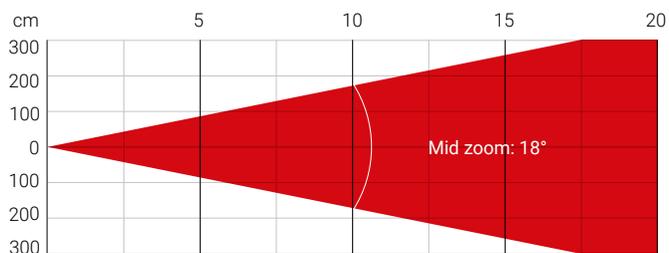


1 to 25 fl./sec.

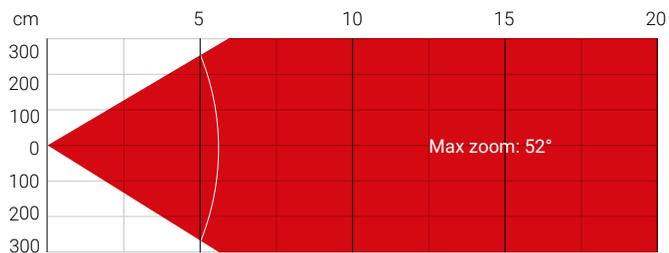
Photometry



Distance (m)	5		10		15		20	
Unit	lux	Ø	lux	Ø	lux	Ø	lux	Ø
White	98300	0.35	24580	0.7	10900	1.05	6140	1.4



Distance (m)	5		10		15		20	
Unit	lux	Ø	lux	Ø	lux	Ø	lux	Ø
White	7560	1.58	1900	3.17	840	4,5	470	6.34



Distance (m)	5		10		15		20	
Unit	lux	Ø	lux	Ø	lux	Ø	lux	Ø
White	930	4.8	230	9.75	100	14.63	60	19.51

Total Flux	20,000 lm (mid zoom, STAGE mode)
------------	----------------------------------

CCT @LED engine	8100 K (±250K)
-----------------	----------------

CCT @open	6500 K (±350K)
-----------	----------------

Ra @open	70 (±2)
----------	---------

TLCI	48
------	----

TM-30	Rf: 71 / Rg: 94
-------	-----------------

Fan Mode	Noise Level (dBA)	Flux (lm)
----------	-------------------	-----------

Auto Mode	43.2	16,500
-----------	------	--------

Stage Mode	47.5	18,900
------------	------	--------

Silence Mode	36.2	10,600
--------------	------	--------

Super Silence	32.4	8,000
---------------	------	-------

Note: noise measured at 1m distance, static status, ambient 31dBA
Integrating sphere measurement

OPTICS

- 13-element 13:1 zoom high-resolution optic system
- Beam aperture: 4° to 52°
- Fast motorised linear zoom
- Tempered anti-reflective coated lenses
- 140 mm frontal lens

LIGHT SOURCE

- 26,000 lumens white light engine
- Total luminaire output: up to 20,000 lumens (integrating sphere measurement, Stage Fan mode)
- Colour temperature output: 6500 K
- Variable CRI: 70 to 86
- 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 automatic repositioning
- Moving-head range: infinite pan and tilt rotation

COLOURS

- Sophisticated colour mixing system providing CMY color mixing
- Variable CTO colour temperature correction
- Variable CRI improvement filter
- Fixed colour wheel with seven complementary colours
- Multicolored section

GOBOS

- Indexable rotating gobo wheel with nine high precision glass gobos, plus open position
- Adjustable-speed rotating gobo in both directions
- Fixed gobo wheel with 10 high-precision glass gobos, plus open position
- Gobo diameter: 18 mm
- Image diameter: 13 mm
- Gobo thickness: 1.1 mm

FRAMING SYSTEM

- 4 individually positionable shutter blades on a 100% surface area in all positions
- Rotation of the shutter blades module: +/- 90°

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 combinable rotating and indexable prisms: one 5-facet circular, one 4-facet linear

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

HARDWARE FEATURES

- Graphic LCD display for addressing and special functions settings, with flip function
- 5 menu buttons to set functions
- Excess temperature protection
- Integrated wireless CRMX TiMo RDM receiver from LumenRadio
- IP65 XLR 5 pin male and female connectors for DMX connection
- IP65 RJ45 IN / OUT connectors for ArtNet connection
- IP65 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
- ArtNet & sACN protocol through Ethernet cable
- Local control panel, with IP65 LCD display
- Choice of 2 DMX modes (from 42 to 65 DMX channels)

POWER SUPPLY

- Electronic supply with active PFC
- 100 to 240 Volts – 50/60Hz
- Power: 580 W maximum

COOLING SYSTEM

- Advanced liquid cooling system
- IP68 Self-adjusting variable speed fans for quiet operation (Auto mode)
- Selectable ventilation user modes including Super Silent Mode
- Safety protection against excess temperature

HOUSING

- Moving-head skeleton made of aluminium and steel metal plates
- Base in die-cast composite alloy
- Heatsinks in aluminium and copper
- Moulded covers in self-extinguishing fire retardant ABS PC (V0 class)
- Four-side handles for transportation
- Four heavy-duty feet for better stability
- IP65 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): -20° C (-4° 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 & EMC)

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

SIZE

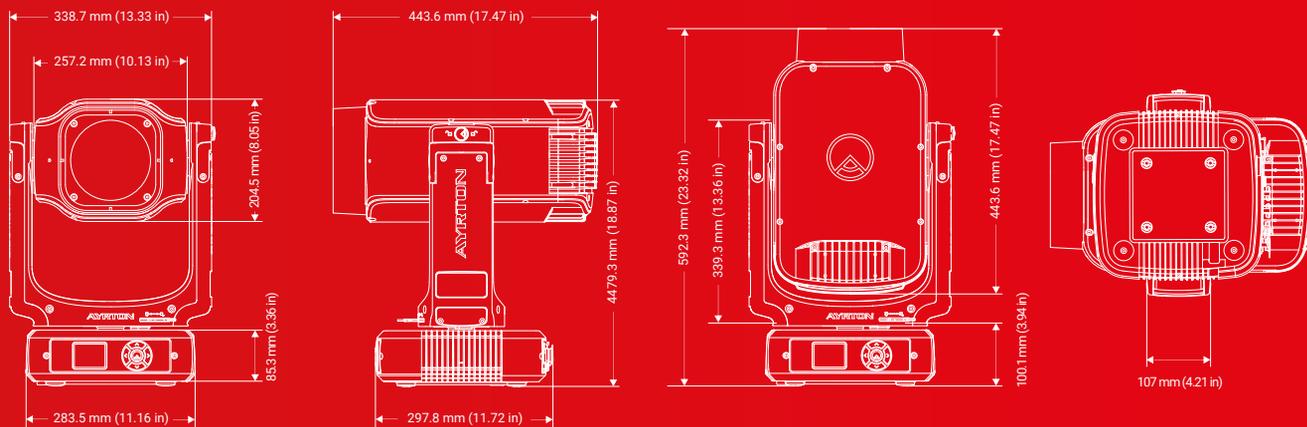
- Product: 338 x 592 x 297 mm (l x h x d)
- Flight-case foam: 390 x 500 x 510 mm (l x h x d)

WEIGHT

- Product: 23.5 kg

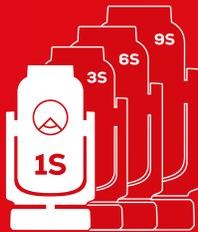
PRODUCT CODES

- 012121: STRADALE PROFILE - ULTIMATE IP65 1 SERIES





AYRTON
Digital Lighting



www.ayrton.eu

03.2025