

MAGICBLADE NEO

Unreal perception



AYRTON

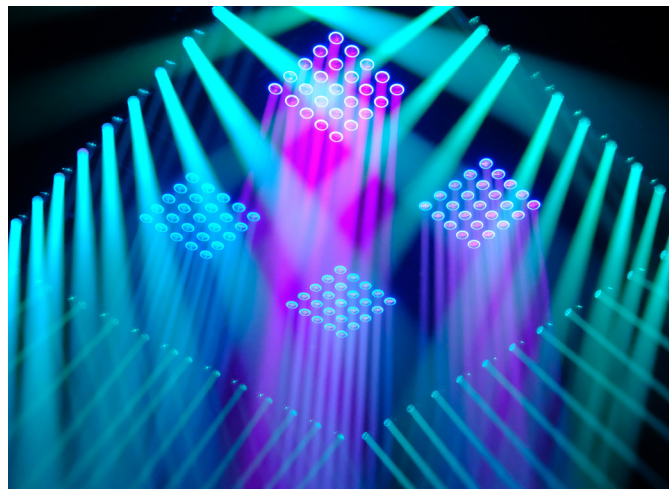
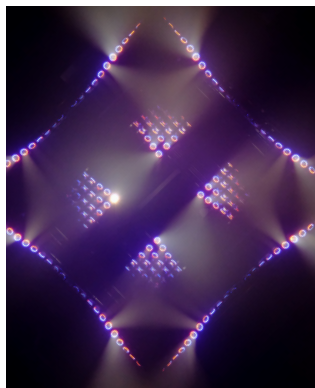
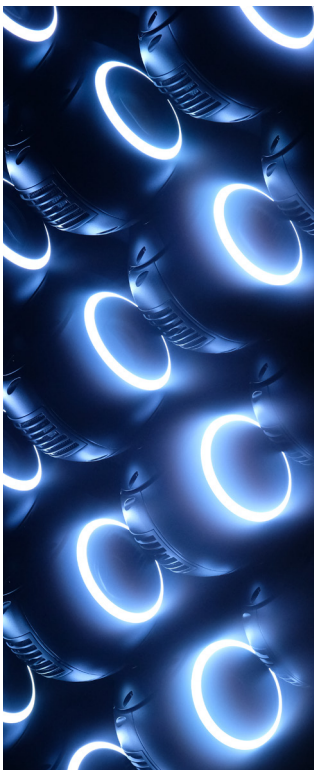
Digital Lighting



MagicBlade Neo Unreal perception

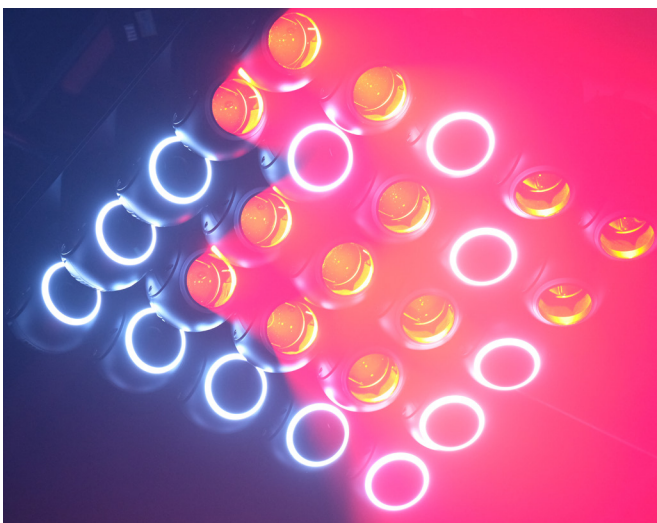
MagicBlade Neo embodies a new generation of luminaires by Ayrton, combining radical innovation with a strong visual signature. Featuring five independent moving heads, this innovative, infinitely reconfigurable concept creates organic curtains of light and spectacular effects.

Ayrton has always innovated and made an impact with luminaires that are surprising, inspiring, and radical. MagicBlade Neo is a brand-new concept: an innovative organic fixture designed to create multi-form curtains of light, reconfigurable ad infinitum—unreal vortices, and striking volumetric effects. Built on the all-new MagicDot Neo platform, it features five independent moving heads, spaced 5 mm apart, with continuous rotation on both pan and tilt axes. Its innovative 'Short Cut' function expands the scope for building complex effects.



A brand-new lighting concept featuring five moving heads, offering limitless creative potential

Fitted with five individual 120 W RGB-L multi-chip LED sources, each paired with a high-efficiency 100 mm optic integrated into a perfect sphere, it delivers a total luminous flux of 15,000 lm. MagicBlade Neo offers an extended colour space and smooth mixing of pastel or saturated colours, enabling perfect colour repeatability with a CRI above 86. Each MagicBlade Neo beam can switch instantly from Beam to Wash, with a 10:1 zoom ratio and a very wide usable range from 3.0° to 30°.



Infinite pan and tilt rotation



Engineered for Impact

Each powerful, intensive beam is paired with a LiquidEffect™ ring, featuring 60 RGB LED sources around its perimeter to create hypnotic multi-colour lighting effects. MagicBlade Neo is an injection-moulded aluminium luminaire for stage lighting, specifically designed for mixed indoor and outdoor use, including saline environments.



Creative Series Source

5 x 120 W RGB-L

Zoom Aperture

3° to 30°

Illuminance at 5 m

5 x 16,000 lux

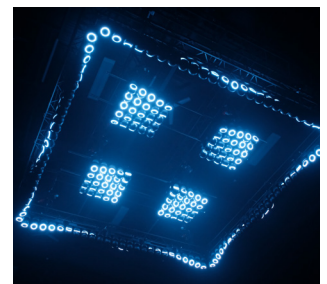
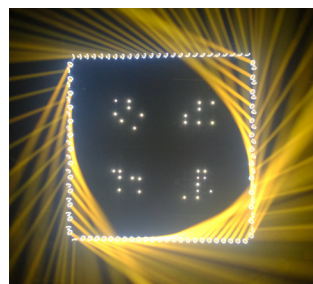
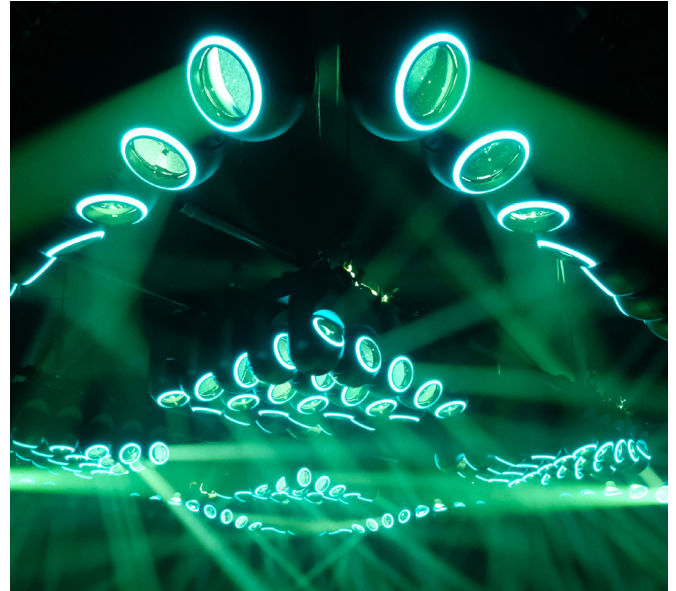
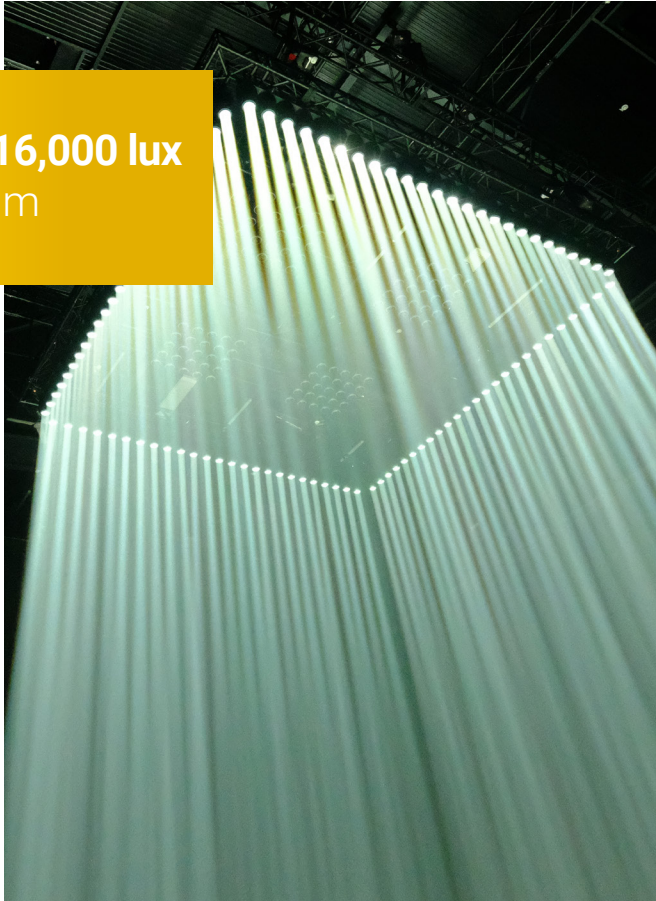
Front Lens

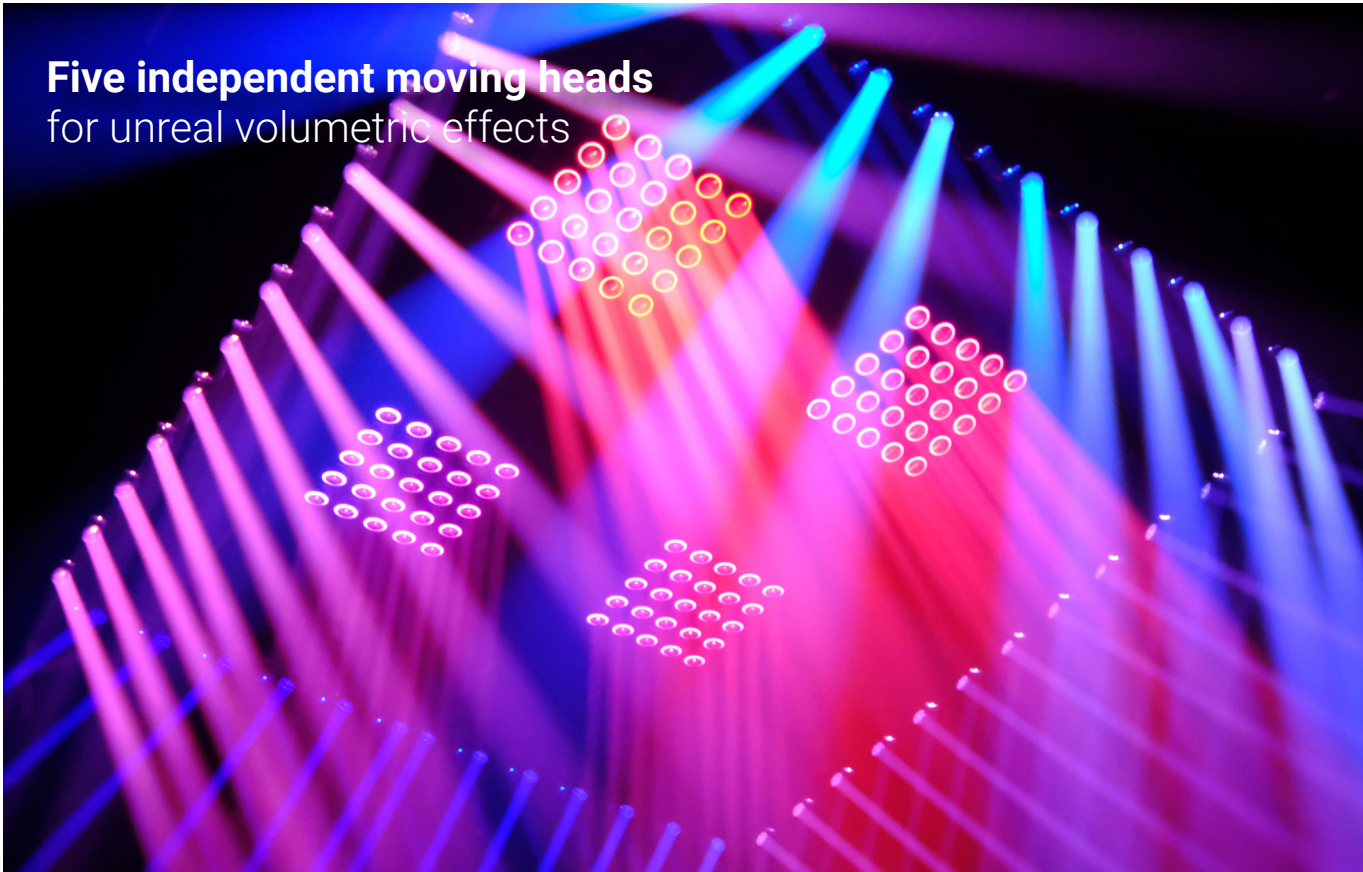
5 x 100 mm

Weight

32.4 kg

5 x 16,000 lux
at 5 m





Five independent moving heads
for unreal volumetric effects

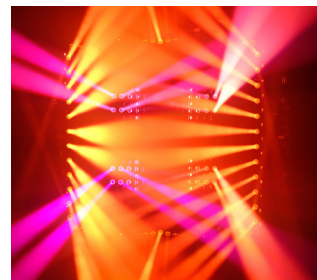
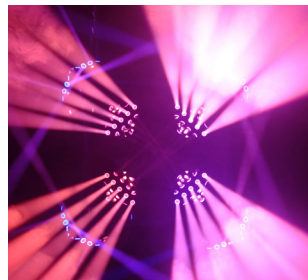
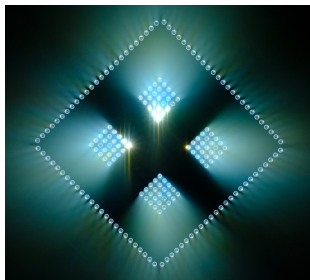
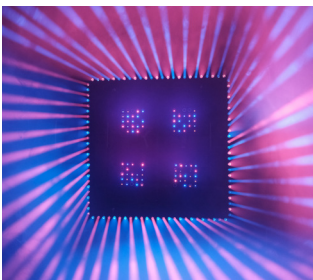
Five times more emotion

A drastic reduction in aluminium part thicknesses, optimisation of the cooling system, simplified lens guiding, and the integration of low-density optical components have enabled a significant weight reduction: MagicBlade Neo weighs just 32.4 kg.

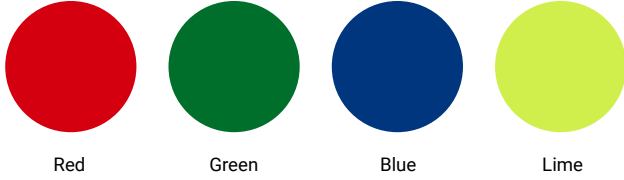
The high power of this new LED source has required the use of specific cooling systems based on phase-change heat pipes. With extended Ethernet connectivity, it allows the creation of unlimited configurations. MagicBlade Neo is an impressive concept that, at first glance, suggests infinite possibilities: a luminaire with a strong visual signature, impeccable finishes, and an unprecedented level of integration.



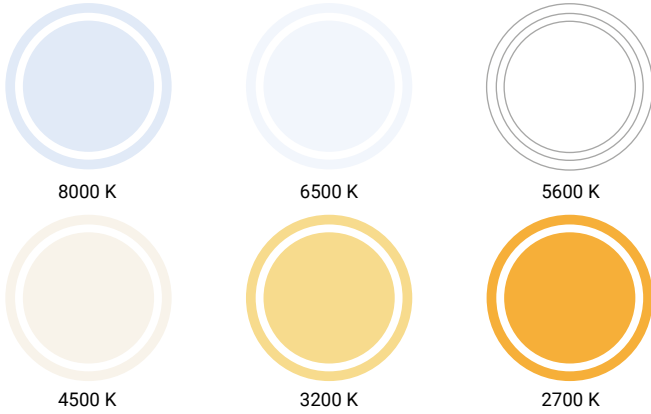
Five independent moving heads, **spaced 5 mm**



Colours



Virtual CTC channel



Liquid effect

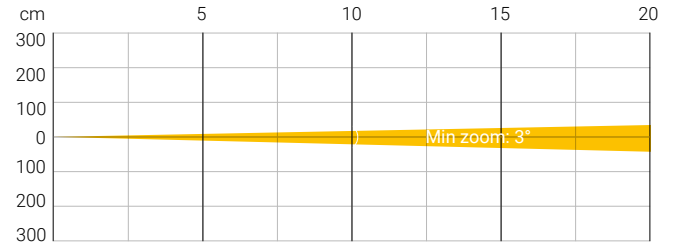


Chase effect

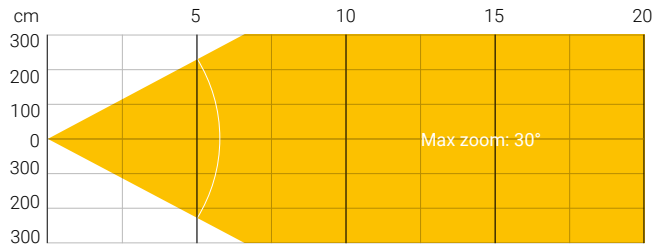


Photometry

Values for one head



Distance (m)	5		10		15		20	
Unit	lux	∅	lux	∅	lux	∅	lux	∅
Red	2,941	0.35	735	0.7	368	1.05	184	1.4
Green	6,228		1,557		779		389	
Blue	865		216		108		54	
Lime	10,380		2,595		1,298		649	
RGB+L	17,300		4,325		2,163		1,081	



Distance (m)	5		10		15		20	
Unit	lux	∅	lux	∅	lux	∅	lux	∅
Red	71	5.54	18	11.09	9	16.63	4	22.17
Green	151		38		19		9	
Blue	21		5		3		1	
Lime	252		63		32		16	
RGB+L	420		105		53		26	

Total Flux	15,000 lm (Sphere, fan mode Stage, wide zoom)		
CCT White (RGB-L White)	6500 (±100K)		
Ra White (RGB-L White)	75 (±2)		
TLCI White (RGB-L White)	66 (±2)		
TM-30 White (RGB-L White)	Rf: 80,9 Rg: 116		
Fan Mode	Noise Level (dBA)	by Goniometer (lm)	by Sphere (lm)
Auto Mode	44	7500	13500
Stage Mode	47	8500	15000
Silence Mode	37	6125	11000
Super Silence Mode	34	5000	8000

Note: noise measured @1m distance, static status, ambient 10 dBA

OPTICS

- 2-element 10:1 zoom high-resolution optic system
- Beam aperture: 3° to 30°
- 5 x Fast motorised linear zoom
- Tempered anti-reflective coated lenses
- 5 x 100 mm front lens

LIGHT SOURCE

- 5 x 5,000 lm RGB-L led sources
- Total luminaire output: up to 15,000 lumens (integrating sphere measurement, Fan mode STAGE)
- Illuminance at 5m: 16,000 lux (one head)
- CRI: up to 86
- Rated life (L70): up to 40,000 hours
- Flicker-free source management suitable for TV applications and all video-recorded events

MOVEMENT

- Highly 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: 5 x infinite pan and tilt rotation

COLOURS

- Sophisticated 4 colours RGB-L mixed, reaching high Colour Rendering Index
- Uniform light beam with no colour shadows, and rich saturated and pastel colour-hues
- 4.29 billion colours (8-bit resolution)
- Virtual CTC channel, from 2500 to 8000K
- Virtual Tint channel

EFFECTS

- Individual control of each head
- Liquid Effect with 60 individual pixels
- Built-in pattern effects for main leds and Liquid Effect, with speed and fade controls

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

HARDWARE FEATURES

- Graphic LCD display with flip function
- 4 menu buttons to set functions
- 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 ethernet connection
- IP65 Power male and female connectors for power connection
- Maximum current available at the output socket : 12 A

CONTROL

- DMX 512 protocol, through DMX cable or a wireless system
- DMX-RDM compatible
- Stand-alone mode and Main/Follow modes
- ArtNet & sACN protocol through Ethernet cable
- Local control panel, with IP65 LCD display
- Footprint of 175 or 184 DMX channels

POWER SUPPLY

- Electronic supply with active PFC
- 100 to 240 Volts – 50/60Hz
- Power: 800 W maximum

COOLING SYSTEM

- Advanced liquid cooling system
- IP68 Self-adjusting variable speed fans
- Selectable ventilation user modes
- Excess temperature protection

HOUSING

- Moving-head skeleton made in die-cast aluminium
- Base in die-cast aluminium
- Heatsinks in aluminium and copper
- Moulded covers in ABS PC (V0 class)
- Tow-side handles for transportation
- Four heavy-duty feet
- IP65 protection rating
- Exterior finish: black (Carbon)

INSTALLATION

- Fastening bracket 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): -20° C (-4° F)
- Minimum usage distance: 0.5 m (1.64 ft.)

COMPLIANCE

EU (EMC & LVD):

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

US (SAFETY & EMC)

- CFR 47, FCC Part 15, Subpart B:2023

SUBSTANCE REGULATIONS

- RoHS
- REACH
- CP65

SIZE

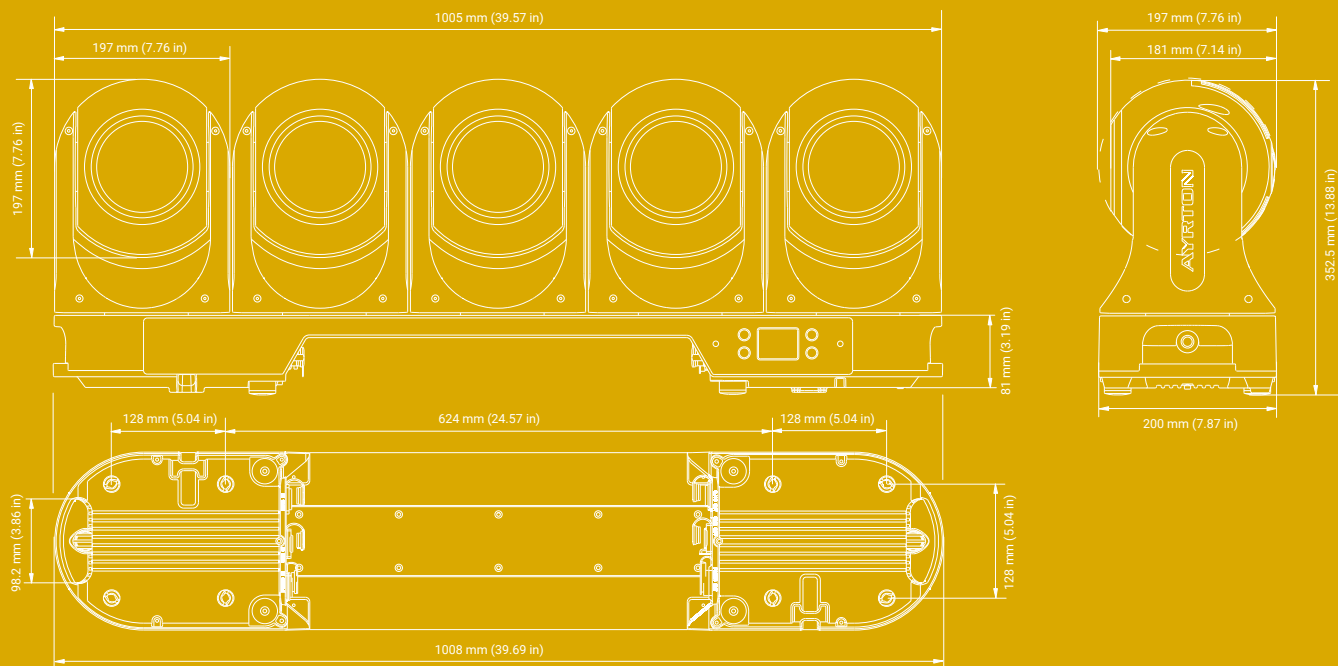
- Product: 1008 x 200 x 352.5 mm (l x h x d)
- Flight-case foam: 1080 x 270 x 380 mm (l x h x d)

WEIGHT

- Product: 32.4 kg

PRODUCT CODES

- 015380: MAGICBLADE NEO - CREATIVE SERIES





AYRTON

Digital Lighting

www.ayrton.eu

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