

COBRA

unique

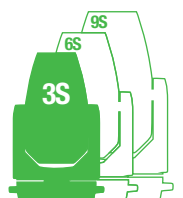


AYRTON
Digital Lighting



COBRA unique

With its first phosphor laser source fixture, Ayrton inaugurates a new generation of technologically impressive luminaires. A stunning, 0.6° beam like you've never seen before. Native contrast never before achieved by a digital light source. Extreme range of focus.

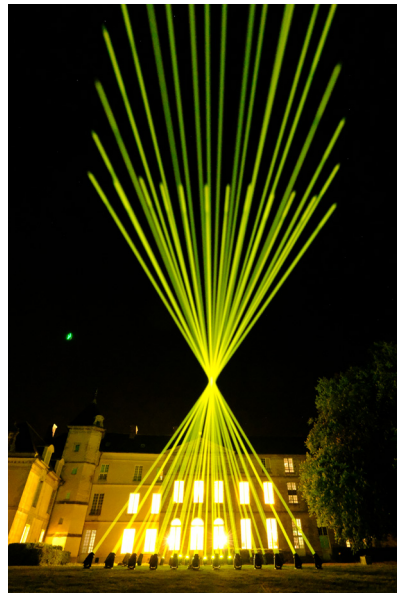


In 2016, DREAMSPOT 18K concept projected us into the future... COBRA surpasses all our predictions.

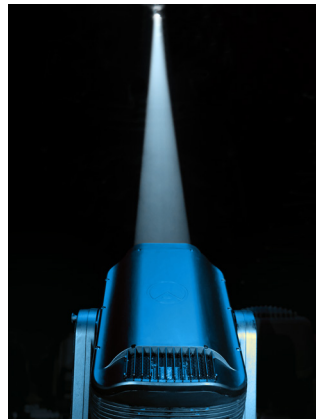
The phosphor laser can illuminate an object kilometres away.

This next-generation speckle-free source pushes the boundaries when it comes to beam definition. A vision that is simply unique.

COBRA delivers record light intensity of over 1.5 million lux at 10 m... Fitted with a 170 mm frontal lens, the proprietary optical system produces an unprecedented 38-times zoom ratio of 0.6 to 23° and an extreme range of focus which permits the beam shape to be adjusted according to the operating distance.



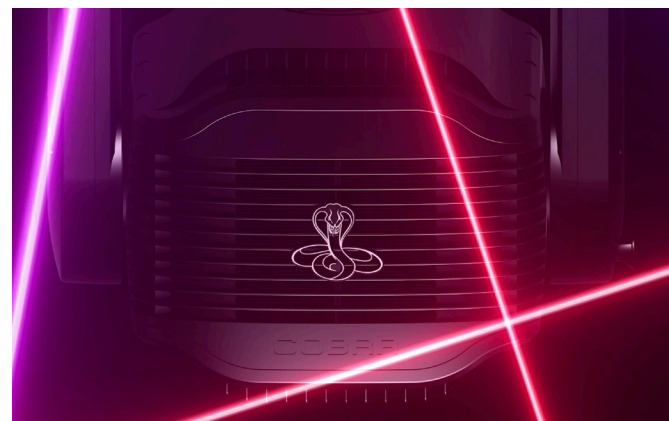
Light Source	Lux at 20 m	Zoom aperture	Frontal Lens	Weight
260 W - 6500 K	386,000	0.6° to 23°	170 mm	33 Kg



Offering unique visual experiences is our ultimate goal

The laser phosphor source of the COBRA delivers a D65 white point that allows perfect reproduction of bright and saturated colours.

COBRA will unleash your creativity and open up new graphic perspectives. Judge for yourself. Its colour section is unbelievable, it provides a CMY colour mixing system an instant access multifunction colour wheel equipped with 21 colour filters, six corrective filters, and a variable CTO on two concentric circles.

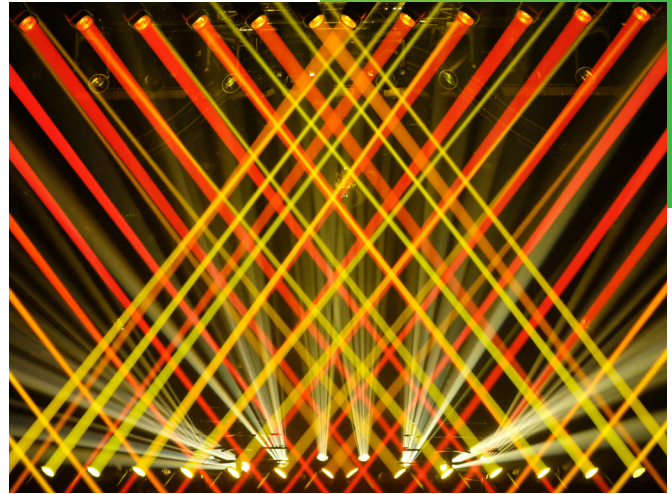


21 fixed colours

COBRA is an infinite source of inspiration

92 fixed and rotating metal gobos distributed on two wheels allow you to sculpt light in beam mode. The fixed gobo wheel incorporates an animation wheel. These gobos can be blended with two sections of four individually combinable rotating prisms that allow you to produce a multitude of volumetric lighting effects.

A light and heavy frost filter complete the graphic tool palette. The continuous rotation of the pan and tilt movement multiply the possibilities for creating complex effects that will impress. COBRA includes a special cooling system adapted to the phosphorus laser source.



**1,544,000
Lux at
10 meter**



Protection system SunProtect-65™ and ColdProtect-65™

As well-suited for indoor as well as outdoor use, COBRA is an IP65 fixture designed specifically to resist extreme conditions. It has a sunlight protection system and an integrated heating system that safeguards against temperatures below minus 10°C.

**IP65
Water-resistant**





Unprecedented
38-times
zoom ratio
of 0.6 to 23°

A vision that is simply unique

With its ultra-intensive beam, AYRTON's first phosphor laser source luminaire aims with precision, and very... very... very far. You won't believe your eyes! Its light rays will not only converge; they will intersect! The only luminaire on the market capable of illuminating an object several kilometres away.

A luminaire as seductive as it is inspiring. A visionary machine that will make you instinctively push your own limits. A simply unique luminaire.

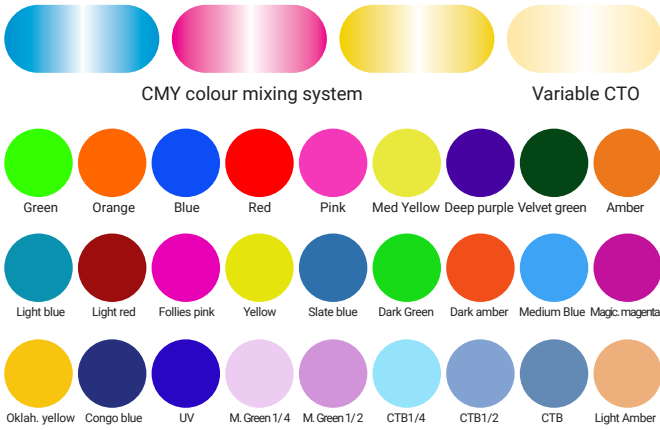
In the endless pursuit of an exclusively new experience...



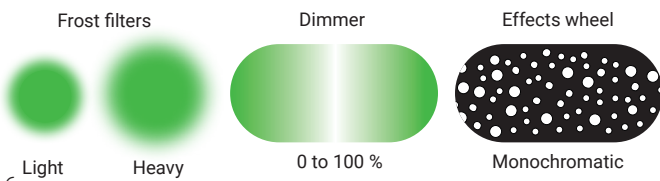
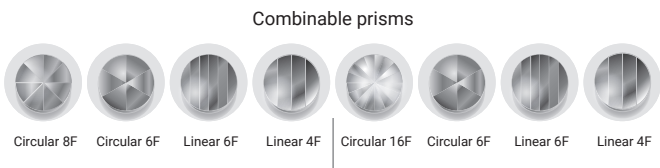
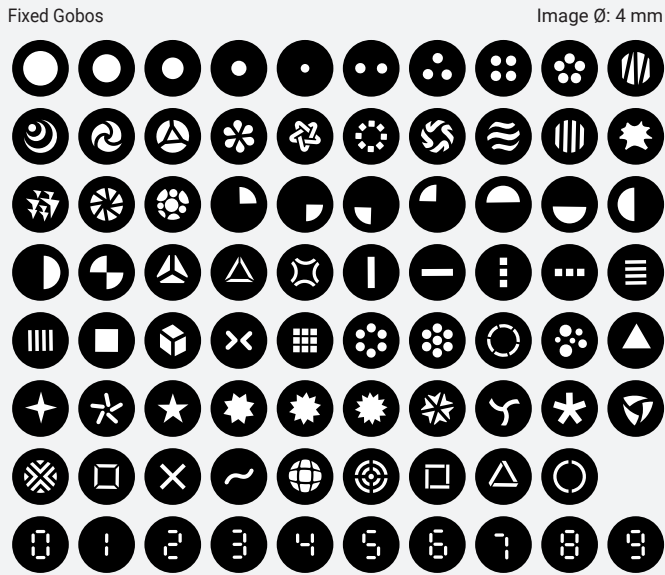
The COBRA
delivers a D65
white point



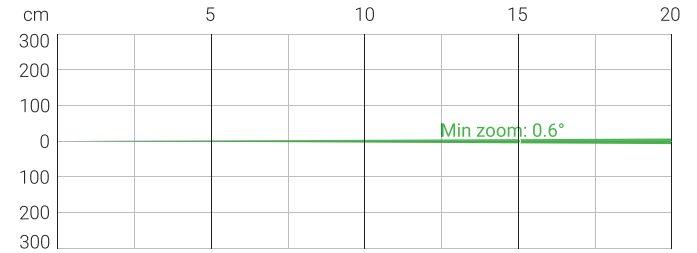
Colours



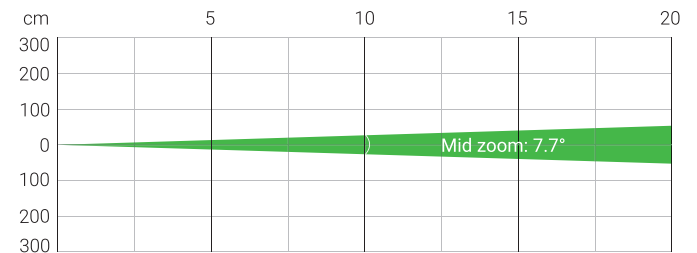
Gobos



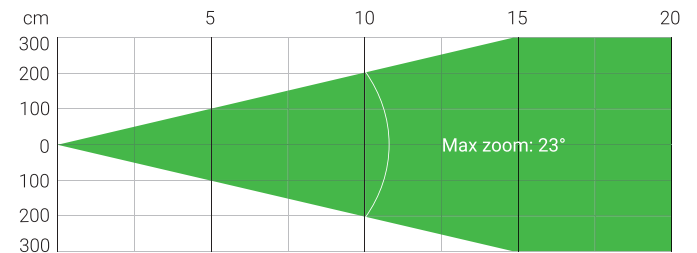
Photometry



Distance (m)	5		10		15		20	
Unit	lux	Ø	lux	Ø	lux	Ø	lux	Ø
White	6,176,000	0.05	1,544,000	0.1	686,222	0.16	386,000	0.21



Distance (m)	5		10		15		20	
Unit	lux	Ø	lux	Ø	lux	Ø	lux	Ø
White	61,496	0.67	15,374	1.35	6,833	2.02	3,843	2.69



Distance (m)	5		10		15		20	
Unit	lux	Ø	lux	Ø	lux	Ø	lux	Ø
White	3,843	2.03	1,691	4.07	752	6.1	752	8.14

Total Flux	8,620 lm Zoom at 128% (Photogoniometer)	
CCT LED Source	9000 (±500 K)	
CCT Luminaire	6500 (±500 K)	
Ra Luminaire	65 (Ra: 65±2)	
TLCI	36	
TM-30	Rf: 62 Rg: 86	

Fan Mode	Noise Level (dBA)	Flux (lm)
Auto Mode	44.6	8,620
Stage Mode	51.3	8,680
Silence Mode	38.9	6,920
Super Silence	33.8	4,690

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

OPTICS

- 13-element 38:1 zoom high-resolution optic system
- Beam aperture: 0.6° to 23°
- Fast motorised linear zoom
- Tempered anti-reflective coated lenses
- 170 mm frontal lens for greater performance

LIGHT SOURCE

- Luminous flux: 386,000 lux at 20 m
- Colour temperature output: 6500 K
- Rated life (L70): up to 12,000 hours
- Speckle-free source

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: infinite pan and tilt rotation

COLOURS

- Sophisticated colour mix system providing CMY color mixing
- Fixed colour wheel with variable CTO, 6 colour temperature correction and 21 complementary colour filters

GOBOS

- One indexable rotating gobo wheels with 12 metal gobos, plus open position
- Adjustable-speed rotating gobo in both directions
- Fixed multiposition gobo wheel with instant access to 80 metal gobos
- Rotating gobo diameter: 6.9 mm
- Image diameter: 4.0 mm

FROST

- 2 frost filters: one light, one heavy

EFFECTS

- Monochromatic graphical animation effects wheel with continuous rotation in both directions
- 2 set of 4 combinable rotating and indexable prisms

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 TOP male connector 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 3 DMX modes (from 35 to 45 DMX channels)

POWER SUPPLY

- Electronic supply with active PFC
- 100 to 240 Volts – 50/60Hz
- Power: 480 W maximum

COOLING SYSTEM

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

HOUSING

- Moving-head skeleton made of aluminium and steel metal plates
- Base in die-cast aluminium
- Heatsinks in aluminium and copper
- Moulded covers in self-extinguishing fire retardant ABS PC (V0 class)
- Two-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: 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): -10° C (14° F)
- Minimum usage distance: 25 m (82 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

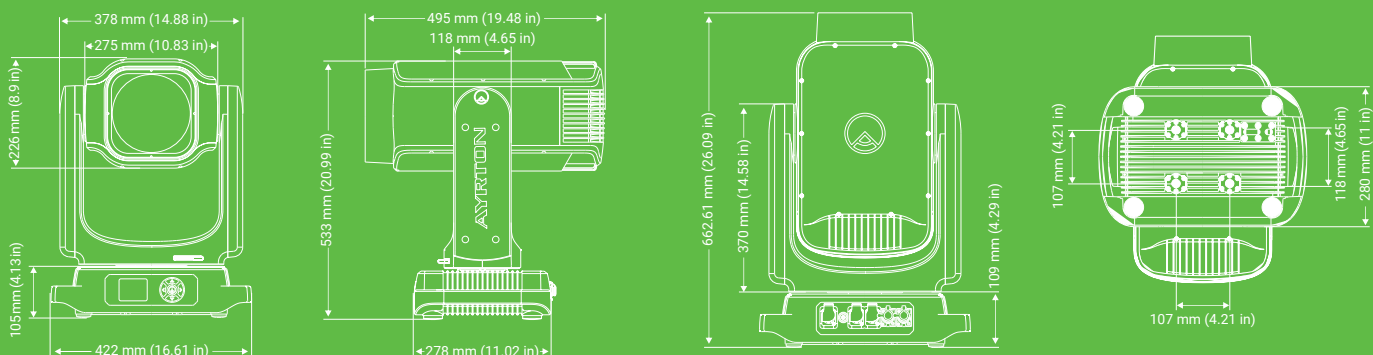
- Product: 422 x 663 x 280 mm (l x h x d)
- Flight-case foam: 485 x 565 x 560 mm (l x h x d)

WEIGHT

- Product: 33.0 kg

PRODUCT CODES

- 014170: COBRA - LASER SOURCE IP65 3 SERIES





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www.ayrton.eu

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