

# KARIF<sup>LT</sup>

the creative wizard

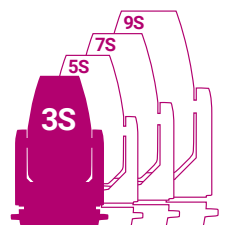


**AYRTON**  
Digital Lighting



## Karif-LT the creative wizard

When all notion of time vanishes, and emotion takes over...  
When the visual experience surpasses all expectations...  
When the effects become simply impossible to describe...



**Y**ou are experiencing the incredible power of Karif-LT... the magician... the sorcerer... the creative wizard.

Karif is the first luminaire of the Ayrton LT product series designed for long-distance applications. A fixture with prodigious powers, capable of delivering dazzling effects never before seen and intense light beams of unbelievable density.

But don't try to typecast it. Karif-LT is amazingly versatile.



Lumens

**14,000**

Colour Temperature

**6500 K**

Beam Aperture

**2.8° to 47°**

Front Lens

**168 mm**

Weight

**27 kg**

## Karif-LT is amazingly versatile

This remarkable, new ultra-compact 300 W beam-spot luminaire is equipped with a 168 mm frontal lens, offering an astronomical zoom ratio of 17:1 and a zoom range of 2.8° to 47°. To achieve an ultra-intense beam with an LED source, Ayrton uses an entirely new miniaturised high-efficiency low-etendue compact LED module. Calibrated at 8000 K, it can generate powerful metallic white light and deep, vivid colours suitable for this type of application.







## A marvel of technology

Karif-LT provides overall output of 14,000 lumens at a colour temperature of 6500 K. In this first hybrid LED luminaire, Ayrton has added continuous rotation to its panoramic movement to expand the possibilities for creating complex special effects.

Karif-LT offers full-featured standard equipment including a CMY colour mixing system and a multi-position colour wheel with a variable CTO, 4 colour-temperature correction filters, and 9 complementary colour filters on two concentric circles (patent pending). The effect section includes one wheel with nine interchangeable rotating HD glass gobos.



**14,000  
lumens  
6500 K**



**17:1 Zoom ratio**



## The magician... the sorcerer... the creative wizard

For Karif-LT to reproduce multiple images, Ayrton has developed a totally new wheel of fixed multi-position gobos with instant access to 19 HD glass gobos and 20 metal gobos on three concentric circles.

Karif-LT is also equipped with a bi-directional continuous dynamic effects wheel. The prism effect system comprising four individually combinable prisms, coupled with 48 fixed and rotating gobos and an ultra-intense beam, can create unusual and spectacular kaleidoscopic effects.

**Fixed gobo wheel  
19 HD glass gobos  
20 metallic gobos**



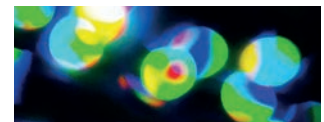
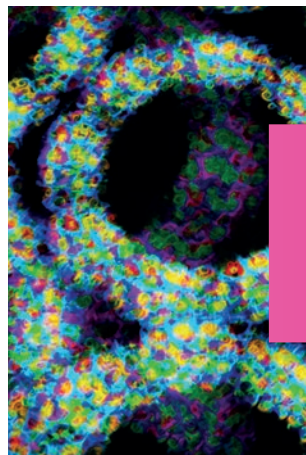


**Intense  
light beam**  
of unbelievable  
density

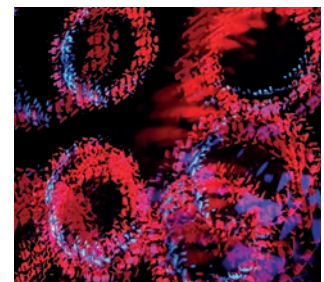
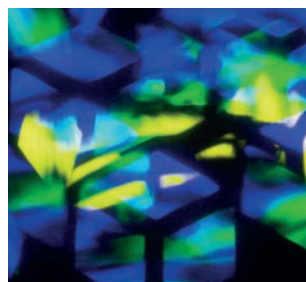
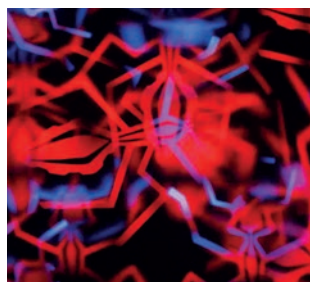
## Push the limits...

Karif-LT will leave you spellbound and awaken your creative instinct. A unique multifunctional luminaire that invites you explore the unknown and push the limits. A marvel of technology that defies the rules and drives you to achieve creative perfection.

Karif-LT will inspire you to astonish your audience. In the endless pursuit of the indescribable, Ayrton continues to lead the way.



Karif-LT create unusual  
and **spectacular**  
**kaleidoscopic effects**





## Colours



CMY colour mixing system



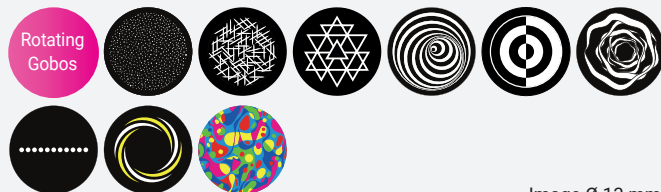
Congo Blue Green Orange Blue Red UV Amber



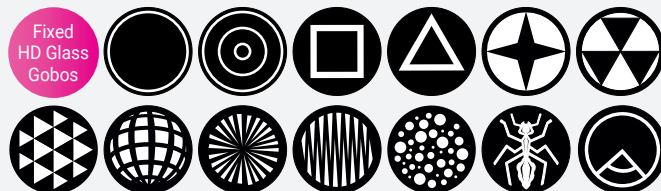
CTO Prog. 1/4 CTB 1/2 CTB 1/4 CTP 1/2 CTP Pink Magenta

## Gobos

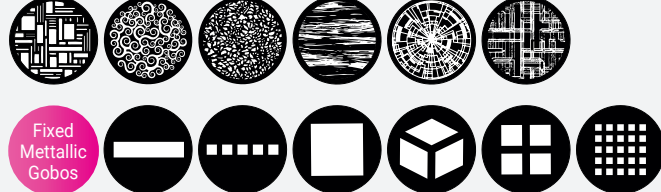
Gobos Ø 18 mm | Image Ø 13 mm



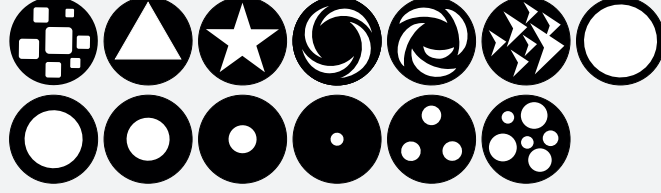
Rotating Gobos



Fixed HD Glass Gobos

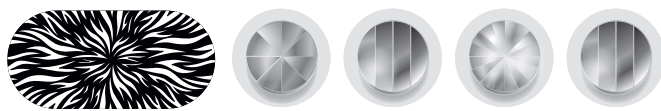


Fixed Metallic Gobos

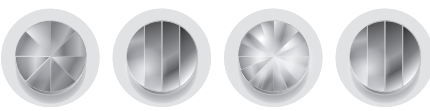


Effects wheel

Combinable prisms



Monochromatic

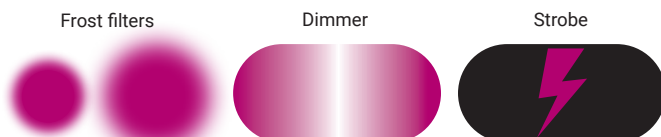


Circular 8F

Linear 4F

Circular 16F

Linear 4F



Frost filters

Dimmer

Strobe

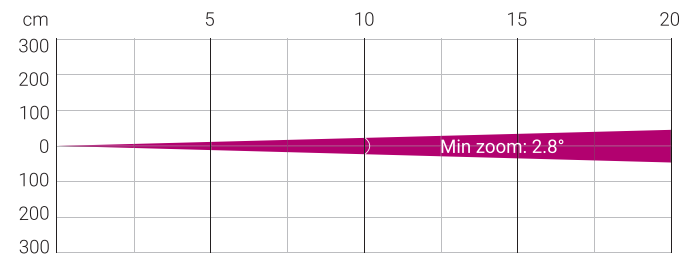
Light

Heavy

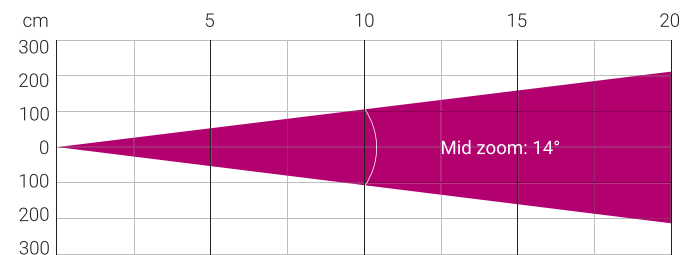
0 to 100 %

1 to 25 fl/sec.

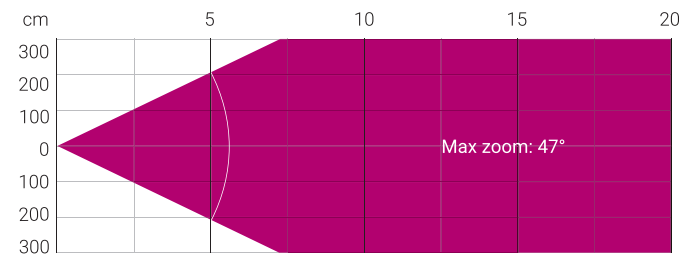
## Photometry



Distance (m)	5		10		15		20	
Unit	lux	Ø	lux	Ø	lux	Ø	lux	Ø
White	130,080	0.24	32,600	0.48	14,500	0.72	8,456	0.96



Distance (m)	5		10		15		20	
Unit	lux	Ø	lux	Ø	lux	Ø	lux	Ø
White	14,500	1.19	3,625	2.38	1,611	3.57	906	4.76



Distance (m)	5		10		15		20	
Unit	lux	Ø	lux	Ø	lux	Ø	lux	Ø
White	1,326	4.35	331	8.7	147	13.05	83	17.4

Total Flux	14,000 lm Zoom at 41% (Integrating sphere)	
CCT LED Source	8000 (±500 K)	
CCT Luminaire	6500 (±500 K)	
Ra Luminaire	71.1 (Ra: 70)	
TLCI	46	
TM-30	Rf: 69.5 Rg: 92.7	

Fan Mode	Noise Level (dBA)	Flux (lm)
Auto Mode	45.5	13,900
Silence Mode	39	9,900
Stage Mode	47	14,000
Studio Mode	40.8	11,700

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



## OPTICS

- 13-element 17:1 zoom high-resolution optic system
- Beam aperture: 2.8° to 47°
- Fast motorised linear zoom
- Tempered anti-reflective coated lenses
- 168 mm frontal lens for greater performance

## LIGHT SOURCE

- 20,000 lumens, 8000 K white-light engine
- Total luminaire output: up to 14,000 lumens
- Colour temperature output: 6500 K
- CRI: greater than 70
- Rated source life: 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 with 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 rotation (pan), 270° (tilt)

## COLOURS

- Sophisticated colour mix system providing CMY colour mixing
- Fixed colour wheel with progressive CTO, 4 colour temperature correction and 9 complementary colours

## GOBOS

- Indexable rotating gobo wheel with 9 HD glass gobos, plus open position
- Adjustable-speed rotating gobo in both directions
- Rotating Gobo diameter: 18.0 mm
- Fixed multi-position gobo wheel with instant access to 19 HD glass gobos and 20 metal gobos on three concentric circles (patent pending).
- Fixed & rotating gobo image diameter: 13.0 mm

## FROST

- Heavy frost filter
- Light frost filter

## EFFECTS

- Graphic animation effect-wheel with bi-directional continuous rotation
- Prism effect system comprising four combinable rotating prisms
- 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 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
- 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 32 to 46 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 with a new Silent Mode
- Safety protection against temperature 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: 2 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

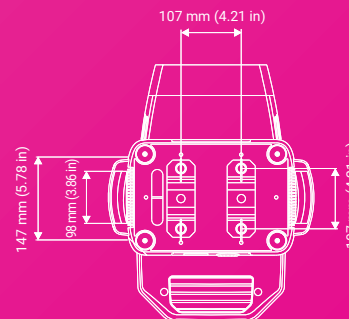
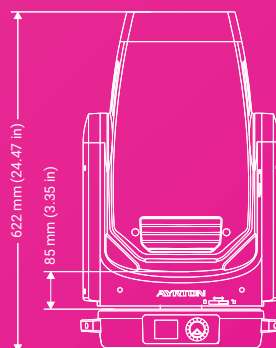
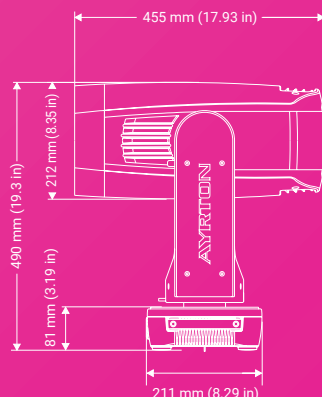
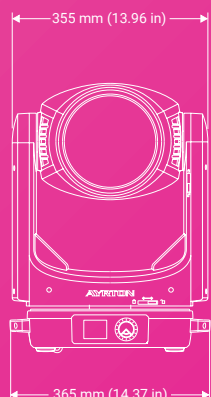
- Product: 365 x 622 x 212 mm (l x h x d)
- Flight-case foam: 430 x 660 x 280 mm (l x h x d)

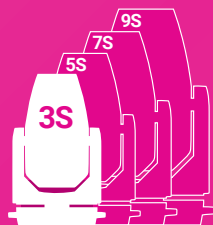
## WEIGHT

- Product: 27 kg

## PRODUCT CODES

- 011170: KARIF-LT – CLASSICAL 3 SERIES





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

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