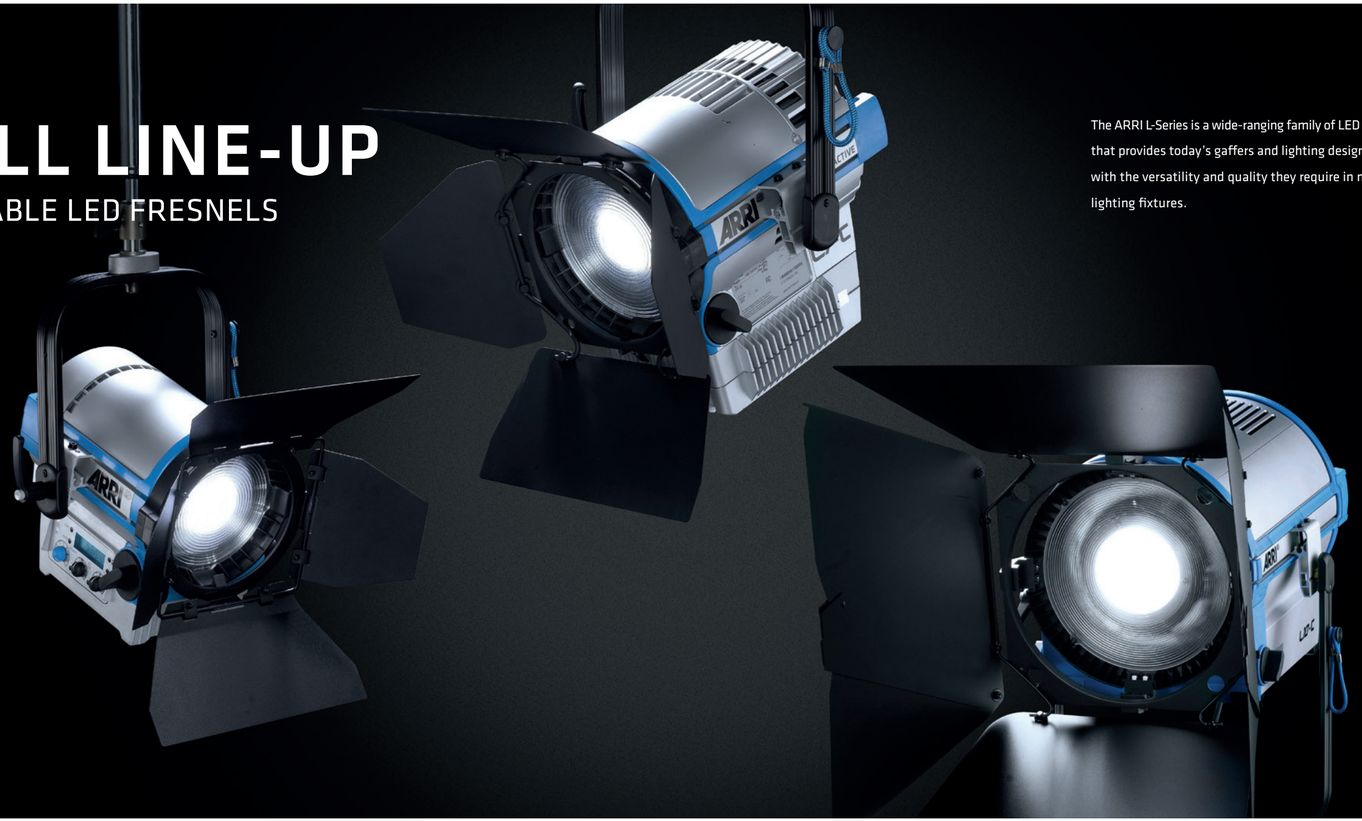
LSERIES

A FULL LINE-UP

OF TUNEABLE LED FRESNELS

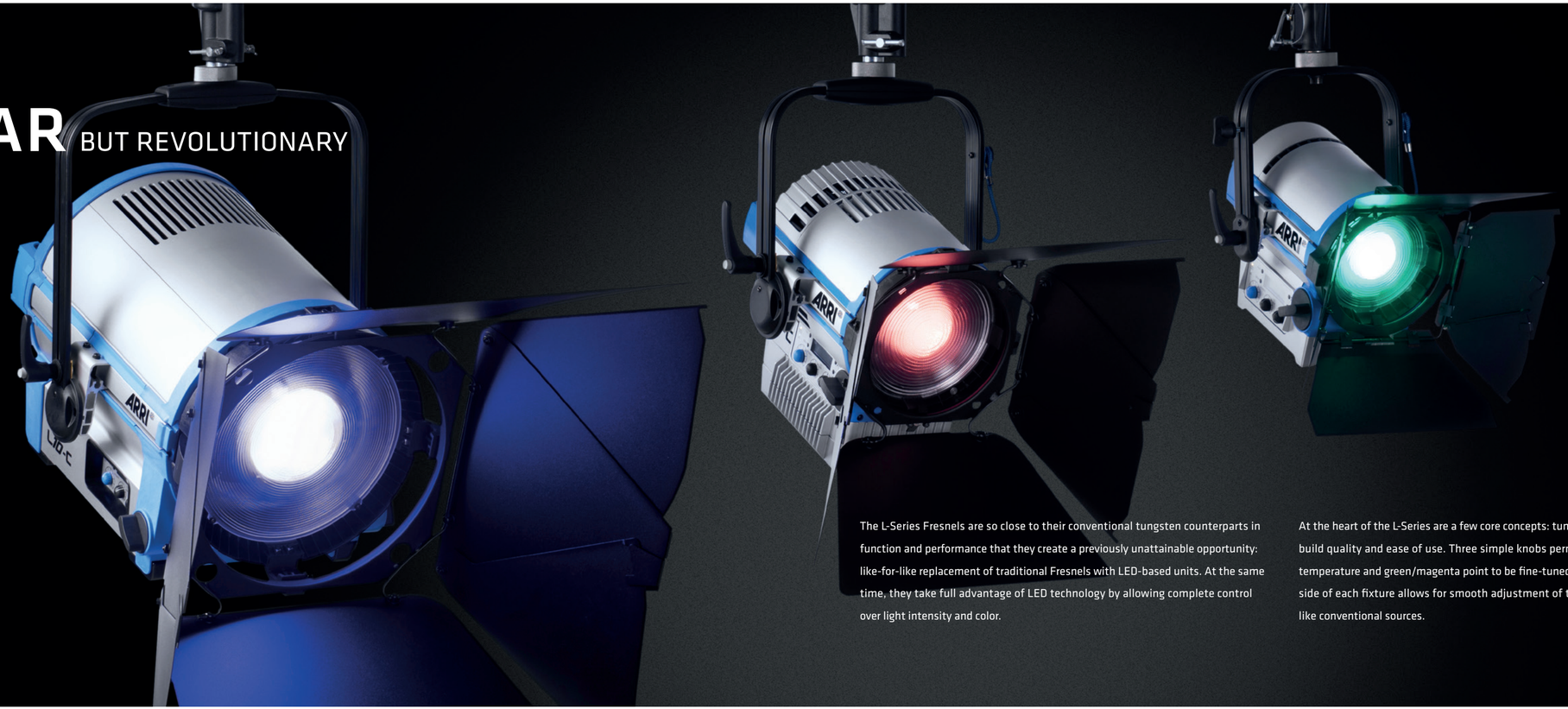


The ARRI L-Series is a wide-ranging family of LED Fresnels that provides today's gaffers and lighting designers with the versatility and quality they require in modern lighting fixtures.

Encompassing multiple power classes, the L-Series offers solutions for almost any application, from large television studios to small interview setups and everything in-between. The L5, L7 and L10 lampheads, which respectively feature 5", 7" and 10" Fresnel-like lenses, are available in tuneable tungsten, tuneable daylight or fully color controllable versions.

	L5	L7	L10
Lens Diameter	137 mm / 5 inch Fresnel	175 mm / 7 inch Fresnel	274 mm / 10 inch Fresnel
Weight	Manual Version – 5.1 kg (11.2 lbs) Pole Op Version – 7 kg (15.4 lbs)	Manual Version – 8.7 kg (19.2 lbs) Pole Op Version – 10.1 kg (22.3 lbs)	Manual Version – 19.7 kg (43.4 lbs) Pole Op Version – 21.3 kg (47 lbs)
Power Consumption	115 W Nominal	160 W Nominal	400 W Nominal
Conventional Replacement	500 W Tungsten Fresnel	1000 W Tungsten Fresnel	2000 W Tungsten Fresnel

FAMILIAR BUT REVOLUTIONARY



The L-Series Fresnels are so close to their conventional tungsten counterparts in function and performance that they create a previously unattainable opportunity: like-for-like replacement of traditional Fresnels with LED-based units. At the same time, they take full advantage of LED technology by allowing complete control over light intensity and color.

At the heart of the L-Series are a few core concepts: tuneability, color fidelity, high build quality and ease of use. Three simple knobs permit the brightness, color temperature and green/magenta point to be fine-tuned, while a focus knob on the side of each fixture allows for smooth adjustment of the beam spread, just like conventional sources.

VERSATILE LED LIGHTS WITH

TRUE FRESNEL

PERFORMANCE

L-Series fixtures were the first LED lights to truly incorporate Fresnel characteristics such as continuous focusability from spot to flood and a smooth, homogenous light field. Like traditional Fresnels, precise control of the light field can be achieved with barndoors and flags, permitting the creative beam cutting and shaping depended upon by lighting designers.

The fact that L-Series lampheads can be operated in the same way and in the same situations as traditional Fresnels means a zero learning curve for lighting professionals and minimal inconvenience for studios making the switch to LED.

QUALITY ABOVE ALL ELSE

ARRI has been making Fresnel lampheads for almost a century, so the L-Series embodies a lifetime of experience and expertise. Like all ARRI products they utilize components of uncompromising durability, in anticipation of high impact handling and usage. Sturdy and reliable, the L-Series Fresnels are built to withstand the sustained rigors of modern production environments.

L-Series fixtures are put through a series of stringent test procedures during manufacture in order to ensure the quality and consistency of each individual lamphead.

CALIBRATED

COLOR

Flattering, true-to-life color rendition, previously achievable only with full-spectrum tungsten sources, is a hallmark feature of the L-Series. Light emitted from the L5, L7 and L10 is specifically calibrated for optimal reproduction on broadcast and digital cinema cameras, ensuring pleasing skin tones and vividly rendered colors.

The fully tuneable white light of the L-Series Color versions can be adjusted for different skin tones, camera sensors and mixed-light environments, while specific color shades can be matched through full gamut color mixing. Unlike other LED fixtures, this level of color control does not involve compromising the quality of the light field: the L-Series Fresnels are unique in combining uniform light and single shadow rendition with absolute control of color attributes.

THE SIMPLEST ROUTE TO LONG-TERM

ENERGY SAVINGS

Savings in operational costs such as electricity, air conditioning, replacement bulbs and dimmer systems are a major benefit of LED lighting. L-Series fixtures are so energy efficient that in a typical studio installation the lights will pay for themselves in a little over four years.

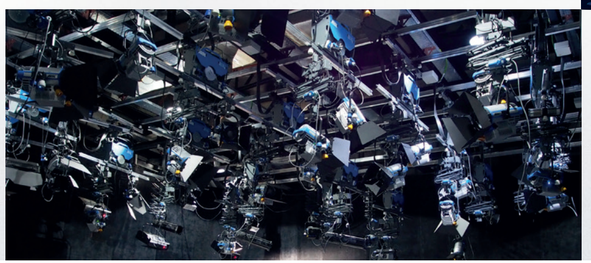
As well as a dramatic reduction in electricity costs, further savings are brought about by the exceptional life span of the L-Series LED light engine, which lasts around 200 times longer than a conventional tungsten lamp. The reduced maintenance and minimized power consumption combine with other cost-savings such as built-in dimming to allow for such a rapid return on investment.

The L-Series also facilitates energy savings outside the studio, as versatile location lighting setups can be achieved with available power, meaning no large generators with expensive fuel bills.

BROADCAST LIGHTING THE FUTURE

In an increasingly eco-conscious broadcast industry, LED fixtures are gaining popularity and the ARRI L-Series leads the field, offering the opportunity to improve the quality, versatility and color controllability of lighting setups while dramatically reducing costs.

Whatever the size and type of studio or broadcast application, the use of L-Series Fresnels will make the lighting easier, cheaper, faster and more creative. Not only does the L-Series meet the exacting standards of high-end television today, it defines the future of broadcast lighting.



Tagesschau is a German national and international television news service produced by Norddeutscher Rundfunk, on behalf of the German public-service television network ARD.

When outfitting a new state-of-the-art studio for Tagesschau in 2014, lighting designers selected fully tuneable ARRI L7-C fixtures in order to exactly match the high color temperature of the studio's media wall backdrop. There is no change in color temperature when the L7s are dimmed, and their true Fresnel characteristics allow the news presenters to be lit sympathetically and precisely, without any spill light falling on the media wall. A power saving of 60% was made by switching from tungsten to L-Series Fresnels.

LOCATION APPLICATIONS FOR FILM AND TV

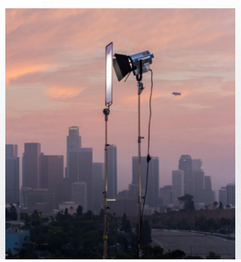
Whether it's a Hollywood blockbuster, a low budget independent film or a fast-moving television documentary, the L-Series delivers the speed, flexibility and cost efficiency needed for today's hectic production schedules, without sacrificing quality.

Freed from the confines of a studio, the L-Series family of LED Fresnels offers great advantages to productions needing to light on the move, with the impressive light output of the L10 and the battery-powered portability of the L5 being particularly well suited to location applications.

Cinematographer Cory Geryak with ARRIs L7

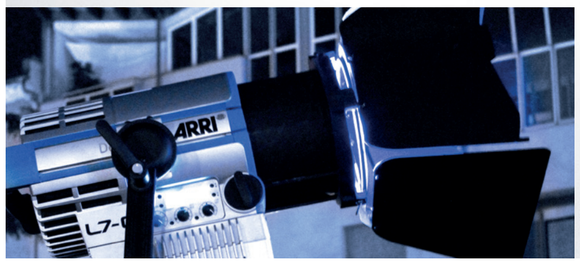
For director Spike Jonze's critically acclaimed film Her, gaffer Cory Geryak utilized ARRI L7 LED Fresnels to save time and effort while shooting in a tiny bathroom on location.

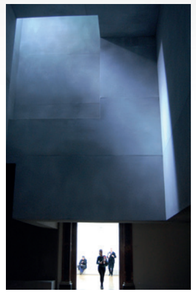
"We didn't change the glass in that bathroom and the windows were really green because of the window tint," says Geryak. "We had to match the color with our lighting and then balance it out in camera afterwards. I bounced two of the L7s off the ceiling and dialed the green in on the lampheads. It was a very low ceiling with sprinkler heads, but the L7s stayed so cool that it wasn't a problem. They were the perfect tool for how we needed to shoot; we would have had trouble controlling the heat of HMIs on those sprinkler heads."

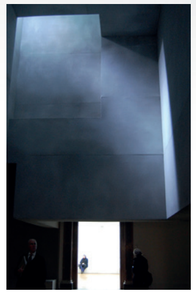


EVENTS AND ARCHITECTURAL LIGHTING

Outside of the entertainment industry, the L-Series has proven to be a highly valued range of fixtures. The familiar form factor and outstanding light quality allow designers to light as they would with conventional sources, while the tuneability provides unprecedented flexibility. With their low forward heat and lack of UV spectrum, the L5, L7 and L10 Fresnels are also ideal for lighting artwork and other sensitive installations.







For the Sensing Spaces exhibition at London's Royal Academy of Arts, scenic and lighting designer Shizuka Hariu of SHSH Architecture+Scenography chose ARRI L7-C lights for an installation that involved continual changes of color temperature.

Hariu used eight L7s for the installation, which were connected via a wireless DMX transmitter to a control desk that ran bespoke sequences to recreate the shifting colors of a winter's day. She notes, "I decided to use ARRI L7-C units to deliver powerful, high-resolution lighting effects that would show the detail of the materials and bring a sense of natural daylight into the museum. I also had to take into consideration energy consumption and environmental sustainability."

Technical data

	L5	L7	L10
Lens Diameter	137 mm / 5 inch Fresnel	175 mm / 7 inch Fresnel	274 mm / 10 inch Fresnel
Beam Angle (Half Peak Angle)	14°-50°	15°-50°	15°-50°
Weight	Manual Version – 5.1 kg (11.2 lbs) Pole Op Version – 7 kg (15.4 lbs)	Manual Version – 8.7 kg (19.2 lbs) Pole Op Version – 10.1 kg (22.3 lbs)	Manual Version – 19.3 kg (42.5 lbs) Pole Op Version – 20.7 kg (45.6 lbs)
Mounting	16 mm / 28 mm Combo Pin	28 mm Spigot (Junior Pin)	28 mm Spigot (Junior Pin)
Power Supply Range	90-250 V AC, 50-60 Hz	100-250 V AC, 50-60 Hz	100-250 V AC, 50-60 Hz
Power Consumption	115 W Nominal	160 W Nominal	400 W Nominal
Power Connection	powerCON TRUE1 (Bare Ends / Schuko / Edison / Japanese Cables Available)	powerCON TRUE1 (Bare Ends / Schuko / Edison / Japanese Cables Available)	powerCON TRUE1 (Bare Ends / Schuko / Edison / Japanese Cables Available)
Battery Connector	4-Pin XLR (Pin 1: Negative / Pin 4: Positive)	None	None
Battery DC Voltage Range	23-36 V DC	N/A	N/A
Models	L5-C: 2,800 - 10,000 K CCT L5-DT: 5,000 - 6,500 K CCT L5-TT: 2,600 - 3,600 K CCT	L7-C: 2,800 - 10,000 K CCT L7-DT: 5,000 - 6,500 K CCT L7-TT: 2,600 - 3,600 K CCT	L10-C: 2,800 - 10,000 K CCT L10-DT: 5,000 - 6,500 K CCT L10-TT: 2,600 - 3,600 K CCT
Colored Light (C Versions Only)	Full RGB+W Color Gamut with Hue and Saturation Control		
Color Rendition	CRI > 94, CQS > 90, TLCI > 90		
Green-Magenta Adjustment	Continuously Adjustable (Full Minusgreen to Full Plusgreen)		
Dimming	0-100 % Continuous		
Control	5-Pin DMX In and Through, On-Board Controller, Mini-USB, RDM		
Housing Color	Blue/Silver or Black		
Ambient Temperature Operation	-20 to +45° C (-4 to +113° F)		
Protection Class	IP 20		
Estimated LED Lifetime (L70)	50,000 hours		
Estimated Color Shift Over Lifetime	< 200 K		
Certifications	CE, CB, GS, cNRTLus, FCC, PSE		

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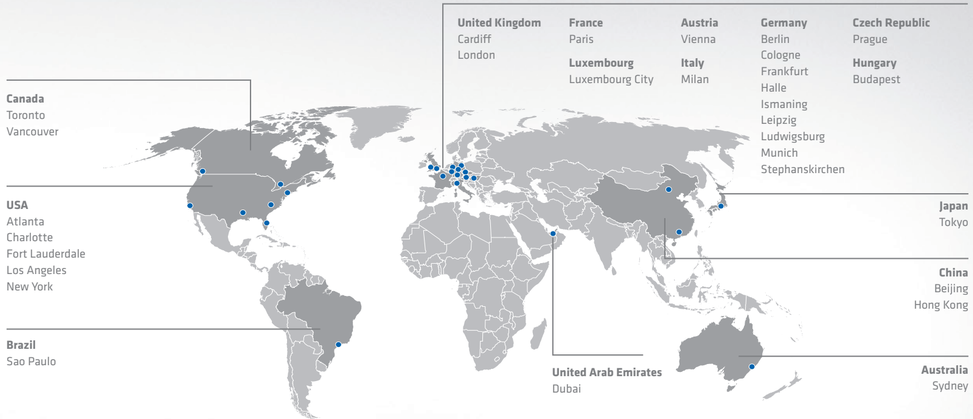
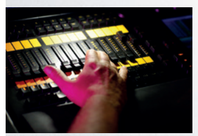
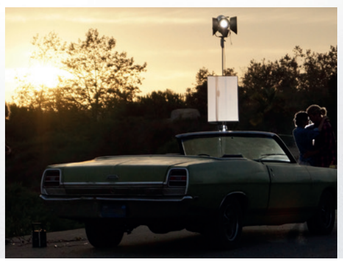
GLOBAL SERVICE

AND SUPPORT FOR AN INTERNATIONAL INDUSTRY

ARRI products are renowned all over the world for their precision and durability. Despite this, ARRI values the trust of its customers in after-sales service and support as highly as their trust in the equipment itself. With subsidiaries and service centers covering the entire globe, we are never too far away to provide the support you need, wherever you might be.







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