

LS4K

HDR Lightsteering system for premium Cinema



- HDR for cinema
- Patented Barco Lightsteering inside
- Complete HDR toolkit
- Ready for scale

Barco LS4K – HDR Laser Projection for Cinema

The Barco LS4K is a next-generation HDR laser projection solution that brings HDR by Barco to a 4K laser platform designed for premium cinema.

HDR for Cinema

With energy consumption similar to a conventional SDR projector, the LS4K delivers up to six times brighter highlights and five times deeper blacks. This dynamic performance is driven by Barco's Lightsteering technology, which redistributes light in every frame to emphasize bright regions while preserving deep shadows. The result is a more immersive image that draws audiences deeper into the story.

Barco Lightsteering

Lightsteering is Barco's patented technology developed specifically for HDR cinema. Building on Barco's expertise in laser projection, the LS4K introduces a new optical architecture that expands color gamut and increases contrast. The result is a more expressive visual canvas that supports filmmakers' creative intent.

A Complete HDR by Barco Solution

HDR by Barco is an end-to-end solution for reliable and consistent HDR playback. The LS4K sits at the center of this ecosystem and is delivered with its dedicated pedestal, HDR lens, Barco media server, and calibration camera as an integrated package. A tailored service model supports operational needs, and the broader HDR by Barco program combines technology, certified HDR titles, services, and marketing support to create a premium experience for exhibitors and audiences.

Premium at Scale

The LS4K enables exhibitors to deliver premium HDR presentation without the high upfront investment traditionally associated with premium formats. With HDR by Barco activated on LS4K, cinemas of any size can offer a deeper level of audience immersion and scale as HDR adoption grows worldwide.

Product specifications**LS4K****General Specifications**

Digital MicroMirror Device™	3x 1.38" DC4K
Resolution	native 4K: 4096 x 2160
Color gamut	Rec.2020
Light source	Laser
Prime lenses	0.91:1; 1.13-172; 1.35-1.84; 1.45-2.10; 1.65-2.70; 1.98-3.40 HDR B-lenses compatible
Long-term brightness stability	40,000 hrs @ average usage conditions in HDR mode
Housing	System consisting of projection head and laser cooling-and-driving module (LCDM)
Dimensions (WxLxH)	Projector incl. feet: 760 x 1595 x 618 mm LCDM: 750 x 1230 x 775 mm Pedestal: 780 x 1660 x 925 mm
Weight	projector incl. feet: 200kg (440lbs) LCDM: 140kg (310lbs)
Power requirements	single-phase 200~240 V~, 25 A., 50/60 HZ three-phase • 200~240 V~/346~415 V~, 3W+N+PE, 14 A, 50/60 Hz (Y) • 200~240V~, 3W+PE, 20 A, 50/60 Hz (II) UPS inlet: 200-240V~, 5A, 50/60Hz
Heat load	16,000 BTU/hr
Exhaust airflow	600 CFM (mainly from LCDM)
Ambient temperature	10 °C (50 °F) to 35°C (95°F)
Ambient humidity	5% RH to 85% RH Non-Condensed
Altitude	-60 (-197 ft) to 4.000 m (13.125 ft)
Media server	Barco Alchemy ICMP-X
Power consumption	4.7kW (3W in Eco mode)
Noise Level	60dB(A) @1m and 25°C ambient temperature
3D systems	Active glasses systems and polarization systems on silver screens are supported. Color separation systems are not supported.
Laser classification	Class 1 risk group 3
User interface	Touch Display and/or web based

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