Flagship laser cinema projectors
Unprecedented image quality for a premium experience
Barco’s flagship laser projector portfolio is the pinnacle of cinema projection technology, delivering a major step up in the audience experience to boost your revenues. Thanks to the smart, integrated laser design and cooling, they’re a cost-effective Premium Large Format (PLF) solution.

The Barco flagship laser projectors:

• Deliver exceptional image quality with outstanding 2D & 3D brightness, high contrast, uniformity, and superior color performance
• Simplify your operations, and
• Reduce your operating expenses

The ultimate visual experience
Unprecedented image quality for a fantastic audience experience

Barco’s flagship laser projectors offer game-changing image quality with, until now, unachievable brightness levels, increased contrast ratio, and vivid colors for a radically improved movie experience that’s unmatched in the industry. The 2D and 3D images they display – with single lens operation – are laser-sharp with superbly saturated and uniform colors. This exceptional image quality allows you to differentiate your movie experiences to ultimately boost your revenue.

Did you know that the Barco DP4K-60L is the brightest cinema projector on the planet? The flagship laser projectors provide high brightness for premium screens. Their brightness levels create an unparalleled 3D experience – showing movies just the way they were imagined by the moviemaker.

What's more, the Barco flagship laser projectors provide superior 2D and 3D images on both white and silver screens.

Simplicity: less is more

Simplicity of operation – no more lamps

Based on laser light sources instead of lamps, Barco flagship laser projectors free you from all lamp-related hassles such as regular lamp replacements. So, you not only increase your uptime, you also avoid the costs, administration, and maintenance related to lamp-based projectors.

Simplicity in the booth – single projector architecture

The Barco flagship laser projectors’ single projector setup can be seamlessly integrated into any theater application. And installation, operation, and maintenance have also become easier. Working perfectly with all major 3D systems, on white or silver screens, and macro switchable from 3D to 2D brightness levels, the Barco flagship laser projectors provide the ultimate in operating flexibility.

Simplicity of maintenance

The Barco flagship laser projectors feature just one integrated projector, so there’s no alignment required between multiple projectors. As there’s only one projector to service and maintain, downtime is reduced. Its modular design and limited number of replacement items simplify maintenance even further.

Cost-effective Premium Large Format (PLF) solution

The projectors are a cost-effective PLF solution that allow you to keep your operating expenses and Total Cost of Ownership (TCO) low. One major saving is that all lamp-related costs are eliminated, as there are no longer any lamps involved.

Thanks to the projectors’ extremely high optical efficiency, brightness and light levels have been doubled, while operating costs were driven down. When compared to xenon projectors generating the same brightness level, our flagship laser projectors consume 40% less power.

The integrated single projector architecture minimizes operating and maintenance costs. And the reliable laser light source offers an extremely long lifetime of 30,000 hours or more while keeping 80% of its initial brightness level.

A special ingredient: Barco Alchemy

Powered by the unique Series 3 Barco Alchemy Integrated Cinema Media Processor (ICMP), Barco flagship laser projectors are the first in the world capable of showing full 4K content at 60 frames per second and 3D movies in 4K at extraordinary brightness levels.
5 reasons to choose Barco

1 Setting the benchmark in digital cinema

Since the beginning of digital cinema, Barco has been a market and technology driver, continually raising the bar for image quality, high brightness, modularity and lowest total cost of ownership. With more than 65,000 projectors installed globally, Barco is the market leader in xenon digital cinema projection. Driven by innovation to create accessible solutions for exhibitors, Barco has been breaking ground with numerous industry firsts – with many more to come. Barco was the first to introduce a sealed optical engine, a 30,000+ lumens projector, natural immersive cinema sound, unified projector and media server functionality, and DCI-compliant 4K 3D and 4K 60 fps.

2 Award-winning technology

Truly revolutionary, the DP4K-60L projector has already been lauded with two prestigious industry awards – superb recognition for its visionary design and masterful engineering:

• “Technology and New Product” Award – International 3D & Advanced Imaging Society

• BIRTV (Beijing International Radio, TV & Film Equipment Exhibition) 2014 Grand Prize

3 Unique design for longer lifetime and constant image quality

To ensure the best quality image over time, our world-class engineers have designed the Barco flagship laser projectors for the real world. The sealed optical engines are a hallmark of all Barco digital cinema projectors – both lamp- and laser-based. Thanks to this patented sealed enclosure, contamination cannot reach the optics or DLP Cinema chips, thus ensuring undiminished brightness and contrast levels. All projectors come with a unique, patented convergence alignment tool that requires up to five times less effort to optimize convergence than any other system. Barco has made a strong commitment to long light source lifetime. In order to reliably achieve long lifetime at brightness levels twice that of xenon projectors, a sophisticated control system actively cools both laser modules and the DMD engine, providing a predictable 30,000-hour lifetime with at least 80% of the initial brightness.

2 Largest laser portfolio in the industry

Barco is leading the worldwide conversion from traditional lamp-based cinema projectors to laser-illuminated cinema projectors. From the ultra-bright, high-contrast 6P RGB flagship laser projectors to our cost-effective laser phosphor projectors, Barco provides the widest range of DCI-compliant laser-illuminated cinema projectors in the industry.
4 Masters in modularity

All around the globe, theater owners have praised the modularity of the Barco digital cinema projectors, and the Barco flagship laser projectors continue this distinct advantage. Their clever modular design ensures fast and simple maintenance and maximum uptime.

What about safety?

The Barco flagship laser projectors feature an integrated and inherently safe design, in which the laser light sources are fully interlocked in the projector chassis. This unique design guarantees that no native laser light is emitted when the projector housing is removed for service purposes. Their multiple-layer design offers multiple levels of safety so you can always operate the projectors in a safe way.

5 The best choice for your premium screen

Cost-effective and scalable Premium Large Format (PLF) solutions, our flagship laser projectors bring the best picture quality and operating flexibility to your premium movie theater. Offering a unique combination of exceptional image quality, unmatched 3D brightness and reduced TCO, they allow you to create a differentiating premium movie experience.

Barco services

Barco also offers the following to support its family of flagship laser projectors:

- Financing
- Leasing
- Consultancy
- Design services
- Installation services
- NOC services
- Maintenance services
- Dedicated training programs
Meet the Barco flagship laser projector family

Our flagship laser projector portfolio brings pristine image quality with high brightness or high contrast levels to your premium screen - from medium to Premium Large Format (PLF) screens.

Barco’s new laser projectors offer the greatest cinema experience ever seen.”

Guohua Jin, Assistant General Manager at HG Entertainment

High-contrast LHC-series

**DP4K-40LHC**
- 6P RGB laser
- 4K resolution
- 6,000:1 contrast
- 36,000 lumens
- High-contrast images for premium large theaters
- Up to 25m (82ft) screen size

**DP4K-20LHC**
- 6P RGB laser
- 4K resolution
- 6,000:1 contrast
- 18,000 lumens
- High-contrast images for premium mid-size theaters
- Up to 18m (59ft) screen size
High-brightness L-series

**DP4K-60L**
- 6P RGB laser
- 4K resolution
- 2,800:1 4K contrast
- 22,000 lumens
- High-brightness images for premium mid-size theaters
- Up to 18m (59ft) screen size

**DP4K-30L**
- 6P RGB laser
- 4K resolution
- 2,800:1 4K contrast
- 28,000 lumens
- High-brightness images for premium mid-size theaters
- Up to 21m (68ft) screen size

**DP4K-45L**
- 6P RGB laser
- 4K resolution
- 2,800:1 4K contrast
- 44,000 lumens
- High-brightness images for premium large theaters
- Up to 26m (85ft) screen size

**DP4K-22L**
- 6P RGB laser
- 4K resolution
- 2,800:1 4K contrast
- 56,000 lumens
- High-brightness images for premium large theaters
- Up to 30m (98ft) screen size
From the leaders in laser projection

Ever since the early beginnings of digital cinema, Barco has been breaking ground with numerous industry firsts that elevate the moviegoer experience and boost your revenue. With more than 65,000 projectors in the field, Barco is the market share leader in xenon digital cinema projection. Now, Barco is also leading the global conversion from lamp-based to laser-based projection.

The best choice for your screen

Barco offers the widest range of DCI-compliant laser-illuminated cinema projectors in the industry. From the ultra-bright 6P RGB DP4K-L projectors to our cost-effective laser phosphor projectors, our portfolio includes a perfect match for every screen. Thanks to our complementary portfolio of laser projectors, it’s becoming easier for exhibitors to benefit from laser-illuminated projection, irrespective of their screen size, theater size, or budget. This makes it easy to convert to all-laser projection – to reap operational efficiencies and reduce costs for your entire theater or across your cinema network.

Choose the future, now

Laser projection is here – and it’s here to stay. Barco’s laser-illuminated projection technology is not only a game-changer for your moviegoer experiences and internal operations, it’s also fully future-proof. In short, it’s the best investment you can make. Choose Barco now – and reap the rewards of laser technology for many years to come. Why wait?