

Barco simulation projectors

Industry's most compact and flexible simulation projectors

Barco is at the forefront of technological advancements in high resolution, compact visualisation projectors designed for the rigorous demands of simulation applications. The projectors provide high resolution, ruggedness and extreme flexibility, designed to operate round-the clock.

F90 series	Key specifications	Description
	<ul style="list-style-type: none"> • Solid State Illumination (SSI) Laser Phosphor • Up to 60.000 hours operating life time* • 3840 x 2400 (4K) / 2560 x 1600 (WQXGA native) or 1920 x 1200 resolution • Up to 13,000 lumens • Built-in Smear Reduction Processing – SRP™ • Wide range of lens options <p>*depending on the mode of operation</p>	<p>The F90 series projector is the brightest in the range delivering razor-sharp images up to 4K (3840x2400) resolution through the powerful Barco Pulse architecture platform. It supports dual head input connectivity on native WQXGA resolution @120Hz and 4K resolution @60Hz. With a predictable lifetime, brightness and color over time using the CLO® functionality, it is an extremely cost efficient projector.</p>
F70 series	<ul style="list-style-type: none"> • Solid State Illumination (SSI) Laser Phosphor • Up to 60.000 hours operating life time* • 3840 x 2400 (4K) / 2560 x 1600 (WQXGA native) or 1920 x 1200 resolution • Up to 5.500 lumens** • Built-in Smear Reduction Processing – SRP™ • Wide range of lens options <p>*depending on the mode of operation **simulation optimized version</p>	<p>The F70 series is a reliable and robust projector range that is built on the powerful Barco Pulse architecture and designed to deliver on all accounts. It has a rugged design which makes it fit for motion platform mounting. It supports dual head input connectivity on native WQXGA resolution @120Hz and 4K (3840x2400) resolution @60Hz. With a predictable lifetime, brightness and color over time using the CLO® functionality, it is an extremely cost efficient projector.</p>
F50 series	<ul style="list-style-type: none"> • Up to 5.500 lumens • Single chip DLP® technology • 2560 x 1600, 2560 x 1080 panorama, 1920 x 1200, 1920 x 1080 resolution • Built-in Smear Reduction Processing – SRP™ • Wide range of lens options 	<p>The extremely compact Barco F50 is the world's first lamp-based single chip DLP® projector that combines native WQXGA (2,560 x 1,600) resolution with active 3D stereo and 120 Hz high frame rates. Designed for 24/7 operation, the F50's total cost of ownership is reduced to a minimum thanks to its reliable DLP® technology and low maintenance needs.</p>
F35 series	<ul style="list-style-type: none"> • Up to 7,500 lumens • Single chip DLP® technology • 2560 x 1600, 2560 x 1080 panorama, 1920 x 1200, 1920 x 1080 resolution • Built-in Smear Reduction Processing – SRP™ • Wide range of lens options 	<p>The F35 is a high-performance single chip DLP projector series with up to 4.1 MP resolution. It features Smear Reduction Processing (SRP™) technology, RealColour™ management system, and refresh rates of up to 120Hz at WUXGA, providing twice the amount of pictures per second, eliminating judder and motion blur with fast-moving content.</p>
FL40 series	<ul style="list-style-type: none"> • Solid State HLD and LED illumination • No maintenance for 50.000 hours* • 3840 x 2400 (4K)/2560 x 1600 (native) or 1920 x 1200 resolution • Up to 3.000 lumens** • Built-in Smear Reduction Processing – SRP™ • Wide range of lens options <p>**WQXGA mode: no maintenance required. Pixel shift mode: maintenance of Actuator after 25,000h **3.000lm @high brightness; 2000lm @REC.709</p>	<p>The FL40 is a robust and true solid state LED projector using the latest in HLD/LED illumination technology for excellent brightness and color fidelity. It is a native WQXGA projector with pixel shift capabilities up to 4K (3840 x 2400) resolution achieved through the powerful Barco Pulse architecture. Solid as rock and featuring an ample number of mounting points in front, on top and at the bottom this projector is extremely flexible and perfect for motion platforms.</p>

FL35 series



- Solid State LED
- Up to 100,000 hours operating life time
- 2560 x 1600, 1920 x 1200 or 1920 x 1080 resolution
- Up to 1,000 lumens
- Built-in Smear Reduction Processing – SRP™
- Wide range of lens options

The FL35 series is a high resolution projector, featuring LED illumination technology with a life span of up to 100,000 hours. The 4.1MP resolution, combined with no lamp change and high-quality, reliable DLP technology, the FL35 ensures a low Total Cost of Ownership.

FS90 IR series



- IR Solid State LED and Laser Phosphor technology
- Up to 60,000 hours operating lifetime*
- 3840 x 2400 (4K) / 2560 x 1600 (WQXGA native) or 1920 x 1200 resolution
- Up to 13,000 lumens
- Dual input for simultaneous RGB + IR Stimulation**
- Built-in Smear Reduction Processing – SRP™

*depending on the mode of operation
**runs WQXGA @120Hz / 4K @60Hz

The FS90 IR series is our brightest range of laser phosphor projectors with added features and functionalities for NVG stimulation. This laser phosphor projector allows full individual control of visual and IR intensity to stimulate NVGs with IR transmission at 740nm. Dual iris and optical filters ensure better contrast and higher black levels with optics purpose designed for Night Vision simulation, delivering razor-sharp images.

FS70 IR series

Key specifications



- IR Solid State LED and Laser Phosphor technology
- Up to 60,000 hours operating lifetime*
- 3840 x 2400 (4K) / 2560 x 1600 (WQXGA native) or 1920 x 1200 resolution
- Up to 5,500 lumens**
- Dual input for simultaneous RGB + IR Stimulation***
- Built-in Smear Reduction Processing – SRP™

* depending on the mode of operation
** simulation optimized version
*** runs WQXGA @120Hz / 4K @60Hz

Description

The FS70 IR series is an extremely reliable and robust range of laser phosphor projectors with added features and functionalities for NVG stimulation. This laser phosphor projector allows full individual control of visual and IR intensity to stimulate NVGs with IR transmission at 740nm. Dual iris and optical filters ensure better contrast and higher black levels with optics purpose designed for Night Vision simulation, delivering razor-sharp images.

FS40 IR series



- IR Solid State HLD and LED technology
- No maintenance for 50,000 hours*
- 3840 x 2400 (4K)/2560 x 1600 (native) or 1920 x 1200 resolution
- Up to 3,000 lumens**
- Built-in Smear Reduction Processing - SRP™
- Wide range of lens options

*WQXGA mode: no maintenance required. Pixel shift mode: maintenance of Actuator after 25,000h
**3,000lm @high brightness; 2000lm @REC.709

The FS40 is a robust and true solid state LED projector using the latest in HLD/LED illumination technology for excellent brightness and color fidelity. A 4th IR LED diode (740nm) ensures NVGs are stimulated for the most realistic training experience. Supporting dual input for both IR and RGB content with up to 120Hz in WQXGA, and fitted with an internal optical dimming filter, illumination can be dimmed individually and continuously from 100-0% for training at any time of day.

FS35 IR series



- IR Solid State LED technology
- Up to 100,000 hours operating life time
- 2560 x 1600 or 1920 x 1200 resolution
- Up to 1,000 lumens
- Dual input for simultaneous RGB + IR Stimulation*
- Built-in Smear Reduction Processing - SRP™
- Wide range of lens options for optimal IR transmission

*When combined with X-PORT DCC120 dual channel combiner at WUXGA resolution

The FS35 IR LED DLP® projector adds specific features and functionality for NVG stimulation with optics purpose designed for IR transmission up to 760 nm. With its 4.1 Megapixels it doubles the resolution of WUXGA models and improved IR optics ensures exceptional IR contrast. The FS35 IR also comes with built-in optical filter ensuring optimal user flexibility.