F90 series

Laser phosphor projectors for Pro AV, Events and Simulation

BARCO

Visibly yours

The F formula

Professionals in the events, venues, and visitor attractions markets are facing a daunting challenge: visitors expect to be wowed by a unique experience. Plus, users in the simulation market require an exceptionally realistic experience that blends real life with a simulated environment when training for challenging tasks. So, projectors must provide superior image quality. At the same time, operators and integrators need to minimize costs by reducing setup and installation time, downtime, and maintenance costs. The razor-sharp image quality and laser phosphor light source of the F90 projectors enable venues and operators to deliver high-quality experiences while saving both time and money.

Ultimate installation flexibility

Thanks to their laser phosphor light engine, F90 projectors can run in any orientation, which gives you more flexibility in positioning them for complex setups, demanding applications, and blends. Coupled with an extensive array of Barco-designed high-resolution FLD and FLD+ lenses – ranging from ultra-short throw (0.28:1) to super-long throw (9.75:1) – each providing a wide lens shift range, the F90 series can accommodate almost any projector configuration.

Cost-effective 4K UHD images

By combining Texas Instruments' pixel shifting technology and Barco's unique Single Step Processing (SSP™) technique a 4K UHD image can be displayed without any artefacts and with the lowest possible processing latency.

>>> For more info, read the white paper '4K UHD explained'

Operational simplicity

The new and straightforward user interface enables you to control your F90 projector in an intuitive way. The projectors also reduce maintenance, as their laser phosphor light source frees you from lamp replacements; and their operating system allows for software updates in the field. Furthermore, warping and blending capabilities are integrated into the projectors.

Low total cost of ownership

By selecting an F90 projector, you increase uptime while driving costs down. Laser-phosphor illumination, combined with Barco's advanced cooling technology, provides up to 40,000 hours operating time without lamp changes. Providing you with considerable cost-savings on maintenance and consumables.

Solid performer

The F90-4K13 model delivers razor-sharp images at 4K UHD resolution, with a high level of detail and saturated colors that meet the Rec. 709 color space. This combination of 4K resolution, laser phosphor technology and a brightness level of up to 13,000 lumens, creates an affordable projector that's unique in its segment. Featuring an advanced optical design, the F90 series provides constant light output, which makes them more dependable, for long-term, worry-free operation, 24/7.

Did you know?

- The 4K UHD resolution F90-4K13 projects over **8 million pixels** on screen, for flawlessly sharp images.
- The projectors produce a **noise level of only 38 dBA** without harsh high-pitched tones, so you will hardly notice they're there.
- The F90 series features the **same high-performance lenses as Barco's F32 and F35 projectors**, so there's no need to invest in new lenses if you already have one of those models.

Two models to choose from

F90-4K13

- 11,800 lumens light output
- 3,840 x 2,400 (4K UHD) / 2,560 x 1,600 (WQXGA native) resolution
- 0.9" DMD chip
- 16:10 aspect ratio
- Up to 146% lens shift (depending on lens)

F90-W13

- 13,000 lumens light output
- 1,920 x 1,200 (WUXGA) resolution
- 0.96" DMD chip
- 16:10 aspect ratio
- Up to 134% lens shift (depending on lens)

High-performance projection for your application

Designed for demanding visitor attractions and simulation applications that require 24/7 operation, the reliable F90 projectors are equally suited for events, retail and advertising as well as boardrooms and auditoriums. Thanks to their 3D functionality, the projectors are also a perfect match for theme park dark rides and interactive experiences.

Museums

Dark rides and visitor attractions

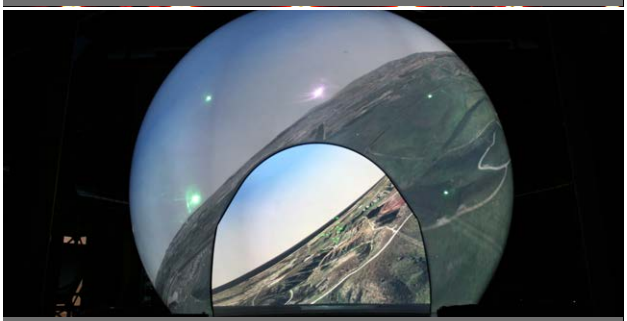
Science and technology experiences

Auditoriums

Boardrooms

Events

Ship-bridge simulation



Large dome systems

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