• FAA certified (level D)
• Optimized for multi-channel visualization
• Smear-free operation
• Advanced, zero frame delay warping
• Extended contrast for accurate night/dusk training
• Motion-base simulator compatible
• Stimulated NVG capability (not available on HB models)
• Enabled for automated alignment

Barco’s SIM 7 series projectors push the envelope of visualization technology to provide extremely realistic simulation. Equipped with the industry’s latest and fastest switching LCoS (Liquid Crystal on Silicon) technology, the SIM 7 series delivers nothing less than razor sharp, no-smear images for high-speed motion and other simulation applications.

The Barco SIM 7 series consists of the SIM 7Q (standard) and the SIM 7Q HB (with high brightness levels). This projector range is optimized for multi-channel visualization to provide exceptional contrast, QXGA (2048x1536) resolution, unmatched dynamic range, seamless image blending, and outstanding performance. Specially developed to meet the real-world demands of commercial and military flight training and mission rehearsal scenarios, the Barco SIM 7 series can be easily integrated into simulation systems with spherical, curved, or flat projection surfaces. If your training applications require visual simulation that is highly realistic, the Barco SIM 7 series give you the best image quality known today, with no speed limits.
Barco’s SIM 7 doesn’t sacrifice speed for realism - it has both

Optimized for high-resolution, multi-channel visualization

The SIM 7 comes equipped with various Barco engineered technologies that make it ideal for multi-channel simulation projection:

- Optical and electronic edge blending eliminate overlap zones where projections converge, to create one seamless image.
- Linked constant light output (CLO) guarantees the same brightness levels for the entire composite image.
- DynaColor and gray level definition ensure accurate color matching and gradient color definitions across the multi-channel system.
- Warping enables correct, undistorted projection without frame delay and loss of pixels on a curved or spherical screen.

True smear-free operation

Its uniquely designed smear reduction technology allows Barco to provide high-quality smear reduced images, without any impact on the contrast ratio or the dynamic range.

High contrast, deep black levels

Barco’s contrast-enhancing features in the SIM 7 make it possible to simulate true black levels and attain levels of color gradience as close to a real-life experience as possible. The SIM 7’s dynamic contrast ratio can be enhanced up to 6,000,000:1, which is offered by no other competitor in the industry.

Stimulated NVG capability

As today’s combat scenarios take place during night, having pilots fully trained to fly under these conditions is necessary for survival. Barco’s night vision goggles (NVG) optimization lets you use the SIM 7Q projectors for true, realistic NVG stimulation with ultra realistic blooming and halo night vision effects. This technology is compatible with any current generation of NVGs.

Motion simulator compatibility

The Barco SIM 7 can be equipped with a motion-base compatibility option, and it is ruggedized to withstand the high G-forces of motion vibration.

Enabled for automated alignment

Quickly and easily setup your multi-channel SIM 7 display system with Barco’s advanced automated alignment system and remote display controller.

Brightest LCoS simulation projector on the market

The SIM 7Q HB introduces a new brightness standard in simulators. Its stunning brightness level (typically 2,800 lumens) was designed specifically for use in environments where light output is a critical issue, and allows the projection of exceptionally realistic day-scenes. Unlike competing models, these brightness levels are in no way compromised by the projector’s contrast enhancement functionality.

SIM 7P series

All SIM 7 series projectors are also available in portrait mode, enabling a much higher vertical field of view compared to traditional solutions.

<table>
<thead>
<tr>
<th></th>
<th>SIM 7Q HB</th>
<th>SIM 7Q</th>
<th>SIM 7QP HB</th>
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<tr>
<td>Resolution</td>
<td>QXGA (2048x1536)</td>
<td>1536x2048</td>
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<td>Latency</td>
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