

SIM 7Q HB

Ultra bright QXGA LCoS projector for training and simulation



Powered by LCoS technology, Barco's SIM 7Q HB was specifically designed for commercial flight, fast-jet and rotary-wing training systems. With a typical light output of 2,800 lumens, this is the world's brightest QXGA projector for the training and simulation market.

Eye-limiting resolution without speed limits

With its QXGA (2048x1536) resolution, the SIM 7Q HB delivers razor-sharp images for the ultimate fidelity in simulation training. LCoS technology has the highest pixel-fill factor of all the current display technologies, and produces a smooth-as-silk picture with an extremely small pixel density. Barco's unique smear reduction technology ensures that speed will not affect the SIM 7Q HB's superior image quality, or result in flicker or breakup. Furthermore, the stunning contrast ratio of 6,000,000:1 ensures deep black levels.

Ready for multi-channel action

The SIM 7Q HB comes equipped with Barco-engineered technologies that make it ready for multi-projector set-ups:

- **Edge blending** technology creates one continuous image without blurry overlap zones where projections converge.
- **DynaColor** and **linked constant light output (CLO)** ensure the same light and color levels across the entire screen.
- **Warping** (geometry correction) enables accurate projection from different angles and across spherical or curved surfaces.

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Technical specifications

Contrast ratio	Dynamic contrast ratio up to 6,000,000:1
Resolution	QXGA (2048x1536)
Brightness	Typical 2,800 lumens
Brightness uniformity	85%+/-15% (Additional electrical adjustments can improve the uniformity to nearly 100% with some loss of light)
Display	0.82" QXGA LCoS, 4:3 aspect ratio
Inputs	• RGBHV • 2 x dual-link DVI inputs for up to 8 bit image formats
Compatibility	• All current simulator formats up to QXGA
Input Frequencies	• Up to 330 MHz on dual-link DVI • Up to 275 MHz on RGBHV
Lamp	380 Watt UHP lamp. Typical lifetime: 2,000 hours (full power mode) and 3,000 hours (eco mode) Lamp warranty 750 hrs or 90 days, whichever comes first.
Lens Shift	Vertical shift: -100% to +100% Horizontal shift: -50% to +50% (no shift on QSD 0.80:1 lens)
Power consumption	Normal operation: Max. 600W
Power Dissipation	Below 2100 BTU/h
AC power	90 – 255 VAC
Weight	27,6 kg (61 lbs) without lens
Dimensions	WxLxH: 370 x 535 x 280 mm (15 x 21 x 11 inch)
Safety Regulations	Compliant with UL 1950 and EN60950
Electromagnetic Interference	Complies with FCC rules & regulations, part 15 Class A and CE EN55022 Class A