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SIM 7Q

QXGA LCoS projector for training and simulation



Powered by LCoS technology, Barco's SIM 7Q was specifically designed for commercial flight, fast-jet and rotary-wing training.

Eye-limiting resolution without speed limits

With its QXGA (2048x1536) resolution, Barco's SIM 7Q 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's superior image quality, or result in flicker or breakup.

Ready for multi-channel action

The SIM 7Q 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.

Barco's SIM 7Q projectors have the same footprint as the SIM 6 Ultra II, making them ideal for your upgrade solution. With a lower total cost of ownership than any other display system, Barco has ensured that cutting-edge LCoS technology is at your fingertips.

Back to black

Barco's SIM 7Q has an impressive dynamic contrast ratio of more than 6,000,000:1 for realistic dusk and night time scenes, and deep black levels. The SIM 7Q's stimulated night vision capabilities are compatible even with generation 4 NVGs. What's more, the SIM 7Q is the brightest LCoS training projector on the market.

BARCO

Visibly yours

Technical specifications

Contrast ratio	Dynamic contrast ratio up to 6,000,000:1
Resolution	QXGA (2048x1536)
Brightness uniformity	>75%
Brightness	Typical 2,000 lumens
Display	0.82" QXGA LCoS, 4:3 aspect ratio
Inputs	· RGBHV · 2 x dual-link DVI inputs for up to 8bit 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	300 Watt UHP lamp, in lamp housing, pre-aligned for max. light output. Typical lifetime: 1,500 h/lamp Lamp warranty 750 hrs or 90 days, whichever comes first.
Optics	Two-story optical engine for outstanding color uniformity
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	85V – 255 V
Weight	27,5kg (60lbs) without lens
Dimensions	WxLxH: 356 x 535 x 273 mm (14 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

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