

SIM 7DP

LCoS projector with advanced warping capabilities in portrait mode



Powered by LCoS technology, Barco's SIM 7DP was specifically designed for commercial, fast-jet and rotary-wing training applications that require a high vertical field of view. The SIM 7DP is differentiated by its TwinWarp capabilities, which increases resolution in curved screen set-ups and cancels the need for dual DVI extension cables.

Eye-limiting resolution without speed limits

With its 1536x2048 resolution, Barco's SIM 7DP 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 7DP's superior image quality, or result in flicker or breakup.

Ready for multi-channel action

The SIM 7DP 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.

Back to black

Barco's SIM 7DP 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 7DP's stimulated night vision capabilities are compatible even with generation 4 NVGs. What's more, the SIM 7DP is the brightest LCoS training projector on the market.

BARCO

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Technical specifications

Contrast ratio	Dynamic contrast ratio up to 6,000,000:1
Resolution	QXGA (2048×1536 pixels)
Brightness uniformity	>75%
Brightness	Typical 1,800 lumens
Display	0.82" QXGA LCoS, 4:3 aspect ratio
Inputs	2 x DVI inputs for up to 8bit image formats
Compatibility	Dual frustum image format
Input frequency	2x 165 MHz on 2x DVI
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	Horizontal shift: -100% to +100% Vertical 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	30kg (64lbs) without lens
Dimensions	WxLxH (without frame): 286 x 593 x 510 mm (11 x 21 x 20 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