

SIM 7Q HB&C

High brightness and contrast QXGA LCoS projectors for training and simulation



Powered by the latest generation of high contrast LCoS technology, Barco's SIM 7Q HB&C series was specifically designed for commercial flight, fast-jet and rotary-wing training systems. With a contrast ratio of up to 35,000:1, and brightness level of 2,800 lumens, this projector perfectly combines high brightness with deep contrast.

Eye-limiting resolution without speed limits

With its QXGA (2048x1536) resolution, the SIM 7Q HB&C 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&C's superior image quality, or result in flicker or breakup. Furthermore, the total dynamic range of 20,000,000:1 ensures the deepest black levels.

Ready for multi-channel action

The SIM 7Q HB&C series 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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Product specifications**SIM 7Q HB&C**

ECR contrast ratio	Up to 35,000:1
Dynamic range	Up to 20,000,000:1
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 Generation 2013, 4:3 aspect ratio
Inputs	<ul style="list-style-type: none">• RGBHV• 2 x dual-link DVI inputs for up to 8 bit image formats
Compatibility	<ul style="list-style-type: none">• All current simulator formats up to QXGA
Input Frequencies	<ul style="list-style-type: none">• Up to 330 MHz on dual-link DVI• Up to 275 MHz on RGBHV
Lamp	380 Watt UHP lamp
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