

# SIM 7QP HC

High contrast QXGA LCoS projectors for training and simulation in portrait mode



Powered by the latest generation of high contrast LCoS technology, Barco's SIM 7QP HC series was specifically designed for commercial flight, fast-jet and rotary-wing training systems. With a contrast ratio of up to 40,000:1, this is the projector of choice for demanding night and NVG training.

## Eye-limiting resolution without speed limits

With its QXGA (2048x1536) resolution, the SIM 7QP HC delivers razor-sharp portrait mode 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 7QP HC'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 7QP HC 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 7QP HC**

<b>ECR contrast ratio</b>	Up to 40,000:1
<b>Dynamic range</b>	Up to 20,000,000:1
<b>Resolution</b>	QXGA (2048x1536)
<b>Brightness</b>	Typical 1,800 lumens
<b>Brightness uniformity</b>	85%+/-15% (Additional electrical adjustments can improve the uniformity to nearly 100% with some loss of light)
<b>Display</b>	0.82" QXGA LCoS Generation 2013, 4:3 aspect ratio
<b>Inputs</b>	<ul style="list-style-type: none"><li>• RGBHV</li><li>• 2 x dual-link DVI inputs for up to 8 bit image formats</li></ul>
<b>Compatibility</b>	<ul style="list-style-type: none"><li>• All current simulator formats up to QXGA</li></ul>
<b>Input Frequencies</b>	<ul style="list-style-type: none"><li>• Up to 330 MHz on dual-link DVI</li><li>• Up to 275 MHz on RGBHV</li></ul>
<b>Lamp</b>	300 Watt UHP lamp
<b>Lens Shift</b>	Vertical shift: -100% to +100% Horizontal shift: -50% to +50% (no shift on QSD 0.80:1 lens)
<b>Power consumption</b>	Normal operation: Max. 600W
<b>Power Dissipation</b>	Below 2100 BTU/h
<b>AC power</b>	90 – 255 VAC
<b>Weight</b>	27,6 kg (61 lbs) without lens
<b>Dimensions</b>	WxLxH: 370 x 535 x 280 mm (15 x 21 x 11 inch)
<b>Safety Regulations</b>	Compliant with UL 1950 and EN60950
<b>Electromagnetic Interference</b>	Complies with FCC rules & regulations, part 15 Class A and CE EN55022 Class A