

# SIM 10

## 10 megapixel LCoS training and simulation projector



Barco's SIM 10 brings together the most forward-thinking technologies available in projection for training and simulation, to help achieve the most realistic image quality possible. The projector's impressive performance, including the ultra-high resolution, a dynamic contrast range of up to 10 million to one, and a brightness of up to 6,000 lumens, makes the SIM 10 ideal for flight training, virtual prototyping and design systems.

### **Down to the smallest detail**

More pixels means more detail, which results in greater realism. As such SIM 10 is the best choice to build eye-limiting resolution systems. With the SIM 10 projector, pilots, operators and designers can never miss an essential detail again.

### **High-speed, high-quality imagery**

Also in fast-paced training scenarios it is essential to notice every single detail. Barco's smearing reduction technology ensures that the SIM 10 can handle this intense imagery flawlessly.

### **Passing with flying colors**

The SIM 10 carries warping technology on board, which results in a geometrically correct image across any type of curved surface, without the need for separate third-party devices. And when you use several projectors to create one image, the SIM 10 automatically equalizes color and brightness levels across the image – even when projectors or lamps are replaced. In this way, you have the same smooth image, free of disturbances, all the time.

### **Not alone in the dark**

With a contrast ratio that can reach up to 10 million to 1 as well as an increased infra-red spectrum, the SIM 10 projector is ideal for simulated night and dusk training. It is completely compatible with all types night vision goggles, and produces realistic halo and blooming effects.

**BARCO**

Visibly yours

## Technical specifications

<b>Contrast ratio</b>	Dynamic contrast ratio of up to 10,000,000:1
<b>Resolution</b>	4096x2400 (10 megapixel)
<b>Brightness</b>	Up to 6,000 lumens
<b>Brightness uniformity</b>	85% +/- 15%
<b>Display technology</b>	1.2" Generation2011 LCoS
<b>Inputs</b>	4 x dual-link DVI inputs for up to 16bit image formats
<b>Compatibility</b>	All current simulator formats up to 10 Mp
<b>Input frequency</b>	Up to 330 MHz per dual-link DVI
<b>Lamp</b>	2 kW xenon lamp, in lamp housing, pre-aligned for max. light output. Typical lifetime in economy mode: up to 1,800h  Pro-rated lamp warranty
<b>Optics</b>	Two-story optical engine for outstanding color uniformity
<b>Lens Shift</b>	Vertical shift: -100% to +100% Horizontal shift: -50% to +50% (no shift on QXD 0.80:1 lens)
<b>Power consumption</b>	Normal operation: 3200W (Full power mode) / 2400W (Eco-mode)
<b>Power Dissipation</b>	Below 11000 BTU (Full power mode) / 8200 BTU (Eco-mode)
<b>AC power</b>	195V – 250 V
<b>Dimensions (WxLxH)</b>	670 x 800 x 365 mm (26 x 31 x 14 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