



BARCOREALITY SIM 4

Single-Chip DLP™ Projector Designed for Immersive Applications

The BARCOREALITY SIM 4 is the first single-chip DLP™ projector with SXGA resolution, designed especially for simulation and immersive applications. Thanks to Barco's FLEX 4 geometry distortion technology, which is integrated in the projector's compact industrial design, the BARCOREALITY SIM 4 can support virtually any type of curved screen application. Specific attention was given to the requirements of Ship's Bridge, Air Traffic Control and Driving simulators.

Exceptional Versatility

- Standard in all SIM 4's is the proprietary FLEX 4 processor for pre-distortion of images in curved-screen applications (based on Barco's WARP 6™ technology)
- Leading-edge geometry distortion range

Multi-channel Optimization

- Optional proprietary OPTICAL SOFT EDGE MATCHING (OSEM): custom - made optical filters to achieve truly seamless blending for multi-channel systems, maintaining full contrast ratio
- Chromatically matched optical engines with additional DYNACOLOR electronic space transformations for elimination of channel-to-channel color variations
- EXTENDED CONTRAST RATIO: Optical dimmer for use in night scenery and light output equalization Integrated
- CONSTANT LIGHT OUTPUT (CLO) for continuous brightness tracking

Superior Optics

- 200 W UHP lamp to produce 1,300 ANSI lumen
- Optimized engines achieve contrast ratio >1000:1
- Standard fitted with a (1.2 -1.4):1 zoom lens Flexible positioning through -100% to +100% off-axis adjustable lens mount
- Standard Scheimpflug Adjustment for use on tilted screen configurations

Features and Specifications

Light Output

1,300 ANSI lumen

Contrast Ratio

>1000:1 (full white/full black)

Lamp

200 W UHP lamp

Optics

1.2 - 1.4 zoom lens

Input Frequencies

Horizontal 15 kHz - 115 kHz

Vertical 25 Hz - 150 Hz

Synchronous display between
48-62 Hz

Compatibility

The BARCOREALITY SIM 4 is compatible with:

- Image generators and electronic workstations with a resolution up to 1,600 x 1,200 pixels / 76 Hz
- All computer graphics formats from XGA to UXGA
- Most sources with a pixel clock up to 205 MHz

Inputs / Outputs

- 1 x input for RGB / RGSB / RGBS / RGBHV (5 x BNC)
- 1 x VGA (D-15 connector)

Weight

	kg	lbs.
Net	20	44.1
Shipping weight (max.)	35	77.2

Dimensions	mm	inch
W1	510	20.1
W2	535	21.1
H	296	11.7
D1	354	13.9
D2	278	10.9

Power Consumption

350 Watts

Power dissipation < 1200 BTU/h

AC Power

Power factor pre-regulated SMPS

85-240 VAC, 50-60Hz

Communication

- 2 x D9 connectors for RS232 In / Out
- 1 x D9 connector for COM 800
- 1 x Mini-jack for wired remote control
- 1 x IR receivers (front)
- Optional: 1 x 10 Base T network connector

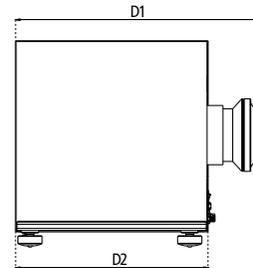
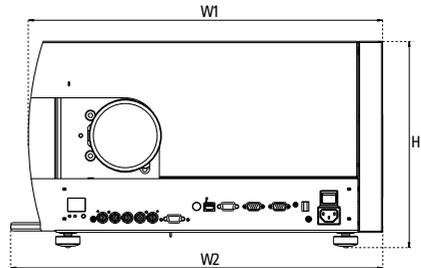
Safety Regulations

Compliant with UL1950 and EN60950

Electromagnetic Interference

BARCOREALITY SIM 4 complies with FCC rules & regulations, part 15 Class A and CE EN55022 Class B

For further information please contact Barco.



Barco Simulation Products

a business unit of BarcoProjection

US Headquarters

600 Bellbrook Ave.
Xenia, OH 45385
Phone +1 (937) 372 7579 • Fax +1 (937) 372 8645
E-mail: eis@barco.com

European Headquarters

Noordlaan 5, 8520 Kurne, Belgium
Phone +32 56 36 82 11 • Fax +32 56 36 84 86
E-mail: sales.bps.bsp@barco.com

www.simulation.barco.com

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The information and data given are typical for the equipment described. However any individual item is subject to change without any notice.

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