

F50

Compact 120 Hz, single-chip DLP projector with WQXGA or Panorama resolution



The Barco F50 is the world's first lamp-based single-chip DLP® projector that combines native WQXGA (2,560 x 1,600) and Panorama (2,560 x 1,080) resolution with active stereo 3D and high frame rates. The F50 is a compact projector, designed for a wide variety of demanding applications in virtual reality, simulation and training, visitor attractions, collaboration suites and scientific visualization.

Unmatched image quality

With its high-performance optics that delivers razor-sharp images, the F50 displays flawless images with vivid and saturated colors, and rich in contrast. Producing very low noise levels, the F50 also features RealColor™ color management, Smear Reduction Processing™ and high frame rates. The F50 boasts four different digital input sources and comes with a wide range of expansion modules and lenses for ultimate flexibility.

Low total cost of ownership

Designed for 24/7 operation, the F50's total cost of ownership is reduced to a minimum thanks to its reliable DLP® technology, filter-free design, and low maintenance needs. Its industry-leading warranty programs make it a reliable and flexible investment.

BARCO

Visibly yours

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Key benefits

- High resolution – WQXGA (2,560 x 1,600) & Panorama (2,560 x 1,080)
- Small, compact and ruggedized
- Ultimate reliability and low TCO
- Low operational noise level
- Active Stereo 3D at WQXGA & Panorama resolution
- Smear Reduction Processing™ / 120Hz Refresh Rates / High Frame Rates
- High-quality projection lenses



Product specifications**F50**

Preliminary technical specifications. These are subject to change without prior notice.	
Projector type	Single chip DLP digital projector
Technology	LVDS DMD™ with DarkChip3™
Resolution	2,560 x 1,600 (WQXGA) / 2,560 x 1,080 (Panorama)
Brightness	5,000 ANSI lumens (High Brightness WQXGA)/2,500 ANSI lumens (VizSim Bright WQXGA)/1,800 ANSI lumens (VizSim WQXGA) 3,800 ANSI lumens (High Brightness Panorama)/1,900 ANSI lumens (VizSim Bright Panorama)/1,500 ANSI lumens (VizSim Panorama)
Contrast ratio	2,300:1
Brightness uniformity	>80%
Aspect Ratio	16:10
Lens type	All pure glass lenses
Lenses	Ultra Wide Fixed EN19 (0.79@1.65m), Wide Fixed EN52 (0.99), Super Wide Zoom EN55 (0.86 - 1.16), Wide Zoom EN56 (1.14 - 1.74), Zoom EN51 (1.71-2.37)
Optical lens shift	Vertical: +121%; Horizontal: +/-82% (lens dependant)
Color correction	RealColor™
Lamps	1 x 350W UHP (dimmable)
Lamp lifetime	Up to 2,000 hours (Full power), Up to 2,500 hours (Eco mode)
Lamp house, quick replace	yes
Lamp warranty	500 hours or 90 days
Sealed DLP™ core	Yes
Orientation	Table - ceiling (360 degrees through lamp axis)
3D	Up to 2,560 x 1,600 @ 120Hz
Inputs	2x DisplayPort 1.2 (HBR2), 1 x DVI-Dual Link, 1 x HDMI 1.4a, 1 x VGA, 2x 3G-SDI, 1x HDBaseT
Input Resolutions	2,560 x 1,600 - 640 x 480 pixel resolution, RGBHV, RGBS, RGsB, custom formats available, HDTV (1080p, 1080i, 720p), NTSC, PAL, SECAM
Max. pixel clock	Up to 600 Mhz (2,560 x 1,600@120 Hz max) DP 1.2 Up to 330 Mhz Dual link DVI
Software tools	SimCAD, Projector Toolset
Control	IR, RS232, Ethernet, USBA, 2x BNC sync, 1x MiniDIN
Network connection	10/100/1000 base-T, RJ-45 connection, RS-232
Power requirements	100-240V 50-60Hz
Power consumption	less than 530W
Operational ambient temperature	10 - 40 °C /50 - 104 °F, 0-3,000m (Storage temperature: -20 - 60 °C/-4 - 140 °F)
Operating humidity	20 - 80% RH (Storage Conditions: 10 - 90% RH)
Dissipation BTU	max 1,807 BTU/h
Dimensions (WxLxH)	342 x 306 x 143 mm / 13.46 x 12.05 x 5.63 in
Weight	7.5 kg / 16.5 lbs
Standard accessories	Power cord, wireless remote control
Certifications	Compliant with FCC, part 15 Class A and CCC, cCSAus, cUL, UL and CE
Warranty	Limited 3 years parts and labour