

# F50

## Compact 120 Hz, single-chip DLP projector



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 3D stereo and high frame rates. 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. The compact F50 projector is suited 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 cutting-edge optics that deliver razor-sharp images, the F50 displays flawless images with vivid colors, and rich in contrast. Producing low noise levels, it also features RealColor™ color management, Smear Reduction Processing™ and high frame rates. The F50 boasts four different digital input sources and a wide range of expansion modules and high-quality projection lenses.

### Key benefits

- Choose from WQXGA, Panorama, WUXGA or Full HD resolution
- Small, compact and ruggedized
- Ultimate reliability and low TCO
- Low operational noise level
- Active 3D stereo
- Smear Reduction Processing™ / 120Hz Refresh Rates / High Frame Rates

**BARCO**

Visibly yours

**Product specifications****F50**

Preliminary technical specifications. These are subject to change without prior notice.

<b>Projector type</b>	Single chip DLP digital projector
<b>Technology</b>	LVDS DMD™ with DarkChip3™
<b>Resolution</b>	2,560 x 1,600 (WQXGA) / 2,560 x 1,080 (Panorama) / 1,920 x 1,200 (WUXGA) / 1,920 x 1,080 (Full HD)
<b>Brightness</b>	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) 5,500 ANSI lumens (High Brightness WUXGA) / 2,700 ANSI lumens (VizSim Bright WUXGA) / 2,000 ANSI lumens (VizSim WUXGA) 5,500 ANSI lumens (High Brightness Full HD) / 2,700 ANSI lumens (VizSim Bright Full HD) / 2,000 ANSI lumens (VizSim Full HD)
<b>Contrast ratio</b>	up to 5,300:1
<b>Brightness uniformity</b>	>80%
<b>Aspect Ratio</b>	16:10
<b>Lens type</b>	All pure glass lenses
<b>Lenses</b>	Ultra Wide Fixed EN53 (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)
<b>Optical lens shift</b>	Vertical: +121%; Horizontal: +/-82% (lens dependant)
<b>Color correction</b>	RealColor™
<b>Lamps</b>	1 x 350W UHP (dimmable)
<b>Lamp lifetime</b>	Up to 2,000 hours (Full power), Up to 2,500 hours (Eco mode)
<b>Lamp house, quick replace</b>	Yes
<b>Lamp warranty</b>	500 hours or 90 days
<b>Sealed DLP™ core</b>	Yes
<b>Orientation</b>	Table - ceiling (360 degrees through lamp axis)
<b>3D</b>	Up to 2,560 x 1,600 @ 120Hz
<b>Inputs</b>	2x DisplayPort 1.2 (HBR2), 1 x DVI-Dual Link, 1 x HDMI 1.4a, 1 x VGA, 2x 3G-SDI, 1x HDBaseT
<b>Input Resolutions</b>	2,560 x 1,600 - 640 x 480 pixel resolution, RGBHV, RGBS, RGsB, custom formats available, HDTV (1080p, 1080i, 720p), NTSC, PAL, SECAM
<b>Max. pixel clock</b>	Up to 600 Mhz (2,560 x 1,600@120 Hz max) DP 1.2 Up to 330 Mhz Dual link DVI
<b>Software tools</b>	SimCAD, Projector Toolset
<b>Control</b>	IR, RS232, Ethernet, USBA, 2x BNC sync, 1x MiniDIN
<b>Network connection</b>	10/100/1000 base-T, RJ-45 connection, RS-232
<b>Power requirements</b>	100-240V 50-60Hz
<b>Power consumption</b>	less than 530W
<b>Operational ambient temperature</b>	10 - 40 °C / 50 - 104 °F, 0-3,000m (Storage temperature: -20 - 60 °C / -4 - 140 °F)
<b>Operating humidity</b>	20 - 80% RH (Storage Conditions: 10 - 90% RH)
<b>Dissipation BTU</b>	max 1,807 BTU/h
<b>Dimensions (WxLxH)</b>	342 x 306 x 143 mm / 13.46 x 12.05 x 5.63 in
<b>Weight</b>	7.5 kg / 16.5 lbs
<b>Standard accessories</b>	Power cord, wireless remote control
<b>Certifications</b>	Compliant with FCC, part 15 Class A and CCC, cCSAus, cUL, UL and CE
<b>Warranty</b>	Limited 3 years parts and labour