

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

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Product specifications**F50**

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) / 1,920 x 1,200 (WUXGA) / 1,920 x 1,080 (Full HD)
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) / 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)
Contrast ratio	up to 5,300:1
Brightness uniformity	>80%
Aspect ratio	16:10
Lens type	All pure glass lenses
Lenses	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), Ultra short throw EN57 (0.28 - 0.3)
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

Last updated: 04 sep 2015
Technical specifications are subject to change without prior notice.
Please check www.barco.com for the latest information.

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