

F50

Compact 120 Hz WQXGA resolution projector for Training & Simulation



Barco's F50 is a compact and ruggedized projector that brings increased brightness, higher resolution (WQXGA – 2560x1600) and high frame rates (120 Hz) to a wide range of use cases in the training and simulation market. Optimized for motion platform systems and warranted for 24/7 use, the F50 excels in reliability and versatility.

Images at eye-limiting resolution

Featuring smear reduction technology, 3D Active Stereo, and the highest fill-factor any projector can offer, Barco's F50 delivers smooth and razor-sharp images at eye-limiting resolutions. Furthermore, with its unmatched optical performance and wide focus depth, this projector is a perfect choice for complex, multi-channel projection on non-flat surfaces. The wide range of interchangeable high-performance all-glass lenses also delivers image sharpness and depth with high ANSI contrast.

Built for demanding applications

Compact, rugged, and equipped with advanced optical locking systems to ensure flawless image quality and stability, the F50 is designed for use on motion platform installations – including compact domes and cockpit simulators. On top of that, the F50 can be tailored to specific training and simulation applications through a selected range of options. Moreover, the total cost of ownership (TCO) has been reduced to a minimum, thanks to the unmatched reliability of the DLP technology and the extended service and maintenance intervals made possible by the use of sealed optics and a filter-free design.

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Technical specifications**F50**

Projector type	Single chip DLP digital projector
Technology	LVDS DMD™ with DarkChip3™
Resolution	2560 x 1600
Brightness	5,000 ANSI lumens (Hgh Brightness) 2,300 ANSI lumens (VizSim Bright) 1,800 ANSI lumens (VizSim)
Contrast ratio	1,800:1
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, Long Throw Zoom EN54, 2.68 - 4.18
Optical lens shift	Vertical: +121%; Horizontal: +/-82% (lens dependant)
Color correction	RealColor™
Lamps	1 x 350W UHP (dimmable)
Lamp lifetime	Up to 2,500 hours (Full power), Up to 3,000 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 2560x1600 @ 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	2560 x 1600 - 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 (2560x1600@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	<530W
Operational ambient temperature	10 - 40 °C /50 - 104 °F, 0-3000m (Storage temperature: -20 - 60 °C/-4 - 140 °F)
Operating humidity	20 - 80% RH (Storage Conditions: 10 - 90% RH)
Dissipation BTU	max 1807 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

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Technical specifications are subject to change without prior notice.
Please check www.barco.com for the latest information.

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