

# 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**

<b>Projector type</b>	Single chip DLP digital projector
<b>Technology</b>	LVDS DMD™ with DarkChip3™
<b>Resolution</b>	2560 x 1600
<b>Brightness</b>	5,000 ANSI lumens (Hgh Brightness) 2,300 ANSI lumens (VizSim Bright) 1,800 ANSI lumens (VizSim)
<b>Contrast ratio</b>	1,800:1
<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 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
<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 2,500 hours (Full power), Up to 3,000 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 2560x1600 @ 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>	2560 x 1600 - 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 (2560x1600@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>	<530W
<b>Operational ambient temperature</b>	10 - 40 °C /50 - 104 °F, 0-3000m (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 1807 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

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Technical specifications are subject to change without prior notice.  
Please check [www.barco.com](http://www.barco.com) for the latest information.

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