

# F50 Panorama

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



The Barco F50 is the world's first lamp-based single-chip DLP® projector that combines native 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

- 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 Panorama**

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| <b>Projector type</b>                  | Single chip DLP digital projector  |
| <b>Technology</b>                      | LVDS DMD™ with DarkChip3™  |
| <b>Resolution</b>                      | 2,560 x 1,080  |
| <b>Brightness</b>                      | 3,800 ANSI lumens (High Brightness)<br>1,900 ANSI lumens (VizSim Bright)<br>1,500 ANSI lumens (VizSim)   |
| <b>Contrast ratio</b>                  | up to 5,300:1  |
| <b>Brightness uniformity</b>           | >80%   |
| <b>Aspect ratio</b>                    | 21:9   |
| <b>Lens type</b>                       | All pure glass lenses  |
| <b>Lenses</b>                          | Ultra Wide Fixed EN53 (0.79:1 @1.65m)<br>Wide Fixed EN52 (0.99:1)<br>Super Wide Zoom EN55 (0.86 - 1.16:1)<br>Wide Zoom EN56 (1.14 - 1.74:1)<br>Zoom EN51 (1.71-2.37:1)<br>Ultra short throw EN57 (0.3:1) |
| <b>Optical lens shift</b>              | Vertical: +212%; Horizontal: +/-72% (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<br>Up to 330 Mhz Dual link DVI   |
| <b>Software tools</b>                  | SimCAD, Projector Toolset  |
| <b>Control</b>                         | IR, RS232, Ethernet, USB, 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   |

Last updated: 08 Mar 2017  
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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