

# F50 WQXGA

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



- **Razor-sharp images with vivid colors**
- **Active 3D stereo and high frame rates**
- **Compact and rugged design**

The Barco F50 is the world's first lamp-based single-chip DLP® projector that combines native WQXGA (2,560 x 1,600) 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

**PRODUCT SPECIFICATIONS****F50 WQXGA**

|                                 |  |
|---------------------------------|--|
| Projector type                  | Single chip DLP digital projector  |
| Technology                      | LVDS DMD™ with DarkChip3™  |
| Resolution                      | 2,560 x 1,600  |
| Brightness                      | 5,000 ANSI lumens (High Brightness)<br>2,500 ANSI lumens (VizSim Bright)<br>1,800 ANSI lumens (VizSim)   |
| 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 @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) |
| Optical lens shift              | Vertical up to 142%, depending on lens<br>Horizontal up to 64%, depending on lens<br>Motorized lens shift  |
| Color correction                | RealColor™   |
| Lamps                           | 1 x 350W UHP (dimnable)  |
| 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<br>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, cNus, cUL, UL and CE  |
| Warranty                        | Limited 3 years parts and labour   |

**Last updated: 03 Jun 2021**Technical specifications are subject to change without prior notice. Please check [www.barco.com](http://www.barco.com) for the latest information.