

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) 2,500 ANSI lumens (VizSim Bright) 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) Wide Fixed EN52 (0.99:1) Super Wide Zoom EN55 (0.86 -1.16:1) Wide Zoom EN56 (1.14 -1.74:1) Zoom EN51 (1.71-2.37:1) Ultra short throw EN57 (0.3:1) |
| Optical lens shift | Vertical up to 142%, depending on lens Horizontal up to 64%, depending on lens 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 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: 17 Jun 2019Technical specifications are subject to change without prior notice. Please check www.barco.com for the latest information.