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# F35 series

## High performance DLP projector for professional applications



Barco's versatile F35 series comprises various models with resolutions up to 2,560 x 1,600, a wide range of high-quality projection lenses, brightness levels up to 7,500 lumens, and both active and passive 3D stereo options. The F35 is the premier choice for operation in a wide variety of applications that require high uptime and reliability, such as scientific and seismic visualization, medical imaging, high resolution display of financial data, video conferencing, collaboration suites, simulation and visitor attractions across different industries such as oil and gas, automotive, healthcare, defense and aerospace, and media and entertainment.

### Available in four models

- With its 2,560 x 1,600 (4.1 MP) resolution, the F35 WQXGA offers double the amount of megapixels compared to standard WUXGA and 1080p models. It reduces system complexity and channel count in fixed resolution systems, or doubles the resolution in fixed channel count systems.
- The WUXGA and 1080p F35 AS3D models feature a native refresh rate of up to 120 Hz in mono or Active 3D stereo, without compression. The F35 AS3D uses DualLink DVI for full 330 MHz bandwidth imaging.
- F35 panorama provides an ultra-wide image for advanced meeting and collaboration rooms, where various users are sharing content. With its exceptional 21:9 (2.37:1) panoramic image and 2,560 x 1,080 resolution, it replaces a typical standard SXGA+ configuration with two blended projectors or dual LCD Screen combination.

### Infrared (IR) for night vision stimulation

Specifically for training and simulation, the F35 series projector is also available for night vision stimulation through IR (Infrared). Featuring special high contrast lenses, the F35 is a great solution when high brightness is required for daytime scenarios and great black levels and high contrast IR for night training.

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**Product specifications****F35 series**

|                                     |   |
|-------------------------------------|---|
| <b>Technology</b>                   | single chip DLP® projector LVDS DMD™ with DarkChip3™  |
| <b>Concept</b>                      | single chip, powered lens shift system  |
| <b>3D capability</b>                | INFITEC EX® 3D and Active Stereo  |
| <b>3D glasses compatibility</b>     | IR, RF models, DLPLink™   |
| <b>Color wheel</b>                  | High Brightness / VizSim Bright / VizSim  |
| <b>Resolution</b>                   | WQXGA (2,560 x 1,600), Panorama (2,560 x 1,080), WUXGA (1,920 x 1,200), 1080p (1,920 x 1,080)   |
| <b>Brightness</b>                   | Up to 7,500 lumens (typical brightness, this can vary depending on the used color wheel and lens)   |
| <b>Contrast</b>                     | Up to 8,000 : 1 (Contrast varies based on settings, color wheels, and lens)   |
| <b>Aspect ratio</b>                 | 16:10 (WQXGA), 21 : 9 (2.37 : 1) (panorama), 16:10 (WUXGA), 16:9 (1080p)  |
| <b>Display colors</b>               | 30-bit RGB  |
| <b>Latency</b>                      | ~19 ms  |
| <b>Computer graphics formats</b>    | Up to 2,560 x 1,600 pixels input on all models. Output resolution depends on native resolution. AS3D compatible with WUXGA and 1080p models only.   |
| <b>Horizontal scan frequencies</b>  | 10 - 150kHz   |
| <b>Vertical scan frequencies</b>    | 48 - 190 Hz (resolution dependant)  |
| <b>Video formats</b>                | HDTV (1080p, 1080i, 720p), EDTV (576p, 480p), SDTV (576i, 480i), NTSC, PAL, SECAM, progressive scan   |
| <b>Lens operation</b>               | Motorized zoom, Focus, Shift, Iris and Mechanical shutter   |
| <b>Image width</b>                  | 0.5 - 10 m  |
| <b>Light source</b>                 | 2 x 300W UHP VIDI   |
| <b>Lamp lifetime</b>                | Up to 2,000 hours (Full power) / Up to 2,500 hours (Eco mode)   |
| <b>Computer inputs</b>              | 2 x DVI-I, 2 x HDMI 1.3a, 2 x VGA   |
| <b>Video Input</b>                  | 1 x Component, 1 x S-video  |
| <b>Control possibilities</b>        | 1 x RJ-45 TCP/IP, 1 x 9-pin D-SUB RS232, 2 x 12V programmable trigger (3.5mm mini jack), 1 x Wired Remote 3.5mm mini jack, 2 x USB  |
| <b>Dimensions</b>                   | 510 x 223 x 376 mm (WxHxD)  |
| <b>Weight</b>                       | 12.7 kg   |
| <b>Shipping Dimensions</b>          | 780 x 370 x 520 mm (WxHxD)  |
| <b>Shipping Weight from Factory</b> | 20 kg   |
| <b>Power requirements</b>           | 8.4A ~100-240V 50-60Hz, typical consumption: Max 815W@100V  |
| <b>Conformances</b>                 | CCC, cCSAus, FCC Class A, cUL, UL and CE  |
| <b>Operating temperature</b>        | 10 - 40 °C  |
| <b>Storage temperature</b>          | -20 - 60 °C   |
| <b>Operating humidity</b>           | 20 - 80% RH   |
| <b>Storage humidity</b>             | 10 - 90% RH   |
| <b>Color</b>                        | Black metallic  |
| <b>Warranty</b>                     | 3 years, 500 hours or 90 days on lamp (whichever comes first). Up to 5 years total warranty available: Conditions apply.  |
| <b>24-7 documentation</b>           | This projector is designed and warranted for heavy duty 24/7 operation. Specific measures and design considerations have been made in order for it to comply with stringent requirements in challenging applications. |
| <b>MTBF</b>                         | 34,662 hours  |
| <b>BTU per hour</b>                 | less than 3,109   |

Last updated: 10 okt 2014  
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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