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

Generated on: 16 Apr 2015
Technical specifications are subject to change without prior notice.
Please check www.barco.com for the latest information.