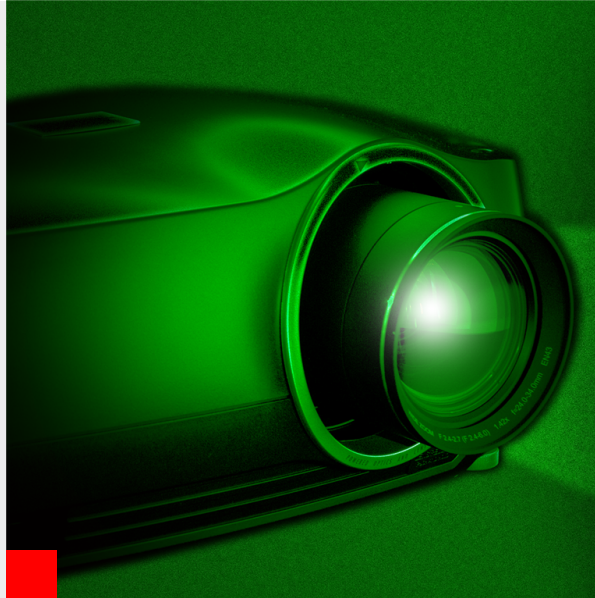


# FS35 IR series

World's highest resolution and brightest LED projector for Night Vision Goggle Stimulation



Barco's FS35 IR series is a LED projector range for unprecedented day, night and IR stimulated simulation. It is available in two models: the 4.1 Megapixel FS35 IR WQXGA (2,560 x 1,600 pixels) featuring the highest resolution NVG stimulated images available, and the FS35 IR WUXGA featuring dual IG input capability for simultaneous RGB + IR imagery. Benefitting from the 2nd Generation ReaLED illumination technology the FS35 IR offers improved IR optics and boosts up to 80% higher intensity in IR, and its optics are purpose designed for IR transmission up to 760nm. Adding to the projector's flexibility, the FS35 IR series can be calibrated for night-time and day-time vision with 0-100% adjustable visible RGB dimming properties. The brightness is fully adjustable on RGB and IR LEDs up to 1,000 lumens, featuring a seamless transition from day to night-time training.

## Smear Reduction Processing

Like all F35 platform projectors, the FS35 IR series projectors feature flicker-free Smear Reduction Processing (SRP™). It does not have to use external filters or shutters - all processing is internal, and user adjustable and configurable. This, combined with up to 120 Hz high frame rate, ensures a smear-free image at any resolution and with any fast-moving content.

## High-quality projection lenses

The optics for FS35 IR are purpose designed for IR transmission up to 760nm, and it is all-glass designs using floating aspherical lens elements and ND glass to secure sharpness and focus. At the same time it ensures high ANSI system contrast, not just sequential contrast that is easy to display on sales literature.

## Designed for 24/7 operation

As the cooling fans are the only moving components within the projector, these are certified to run around the clock and, providing regular maintenance intervals are followed, we even warrant every model for up to five years of continuous operation. The 2nd Generation LED illumination technology has an operating time of up to 100.000 hours, for the most demanding applications.

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**Product specifications****FS35 IR series**

<b>Technology</b>	2nd Generation Solid State LED based single chip DLP® projector
<b>Concept</b>	ReaLED™ IR technology, all-glass optical design with lens shift
<b>Resolution</b>	WQXGA (2,560 x 1,600), WUXGA (1,920 x 1,200)
<b>Brightness</b>	Up to 1000 lumens (Infinitely adjustable)
<b>Contrast</b>	Up to 8,000 : 1 (Infinite contrast and total black with Dynamic Black enabled)
<b>Aspect ratio</b>	16:10 (WQXGA), 16:10 (WUXGA)
<b>Display colors</b>	40-bit RGB + IR
<b>Latency</b>	~19 ms
<b>Computer graphics formats</b>	2560 x 1600 - 640 x 480
<b>Horizontal scan frequencies</b>	15 - 150 kHz (resolution dependant)
<b>Vertical scan frequencies</b>	48 - 190 Hz (resolution dependant)
<b>Video formats</b>	HDTV (1080p, 1080i, 720p), EDTV (576p, 480p), SDTV (576i, 480i)
<b>Lens operation</b>	Motorized zoom, Focus, Shift, Iris and Mechanical shutter
<b>Image width</b>	0.5 - 20 m
<b>IR Wavelength</b>	760 nm
<b>Light source</b>	LED
<b>Lamp lifetime</b>	Up to 100.000 hours
<b>Computer inputs</b>	2 x DVI-D, 1 x VGA, 1 x HDMI 1.3a, 1 x XPort1, 1 x XPort2
<b>Video Input</b>	2 x HDMI 1.3a, 1 x YPbPr, 1 x Component
<b>Control possibilities</b>	1 x RJ-45 TCP/IP, 1 x 9-pin D-SUB RS232, 2 x USB
<b>Dimensions</b>	510 x 223 x 376 mm (WxHxD)
<b>Weight</b>	12.6 kg
<b>Shipping Dimensions</b>	520 x 370 x 780 mm (WxHxD)
<b>Shipping Weight from Factory</b>	20 kg
<b>Power requirements</b>	Certified rating: 8.4A, ~100-240V, 50-60Hz / Typical consumption: Max 325W@100V, ~2.7A, 50Hz; ~1.2A, 240V, 50Hz
<b>Conformances</b>	CE, FCC Class A and cCSAus
<b>Operating temperature</b>	10 - 40 °C
<b>Storage temperature</b>	-20 - 60 °C
<b>Altitude</b>	Up to 3000 m
<b>Operating humidity</b>	20 - 80% RH
<b>Storage humidity</b>	10 - 90% RH
<b>Color</b>	Black metallic
<b>Warranty</b>	Limited 3 years parts and labour. 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>	59,542 hours
<b>BTU per hour</b>	less than 1,100

Last updated: 02 okt 2015  
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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