

FS33 IR series

Solid state LED DLP® projector



Barco's FS33 IR projector is the world's most realistic night vision simulation projector. With its 2nd generation LED illumination system, you get 50% more light than any other LED-illuminated projector. Even in pitch black conditions, you are still capable of making out various light points (such as head lights, street lights, or runway lights) for a true-to-life simulation, thanks to its 0 – 100% visual RGB adjustments. Its optics are purpose designed, specifically developed for IR transmission. Adjustable SRP™ Smear Reduction Processing guarantee a smear and jitter free image. A LED-lit projector, the FS33 IR will improve the operation up-time, and drastically reduce maintenance and operating costs and required technical resources.

Control your cost of ownership with ReaLED™

With no lamps, our 2nd generation patented ReaLED™ IR and RGB LED illumination engine provides up to 100,000 hours of life time expectancy. There are no re-calibration requirements, no color degradation and no foreseeable maintenance. With the FS33 IR you have a perfect projector for all visible video and NVG IR stimulation requirements. With its unique 4-LED engine, it can accurately project day and night imagery simultaneously.

Unlimited installation flexibility

Not restricted by lamp technology, the FS33 IR can be placed in any orientation angle thinkable. With its comprehensive, and very high quality projection lens options and industry standard mounting, the FS33 IR further greatly simplifies installations and keeps infrastructure costs down. There is only one cabinet, complete with optics, I/O, processing, and control. The complete system's weight is limited to 16 kg (35 lbs.), complete with the lens mounted. The result is a projector

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The uniqueness of FS33 IR

- IR LED for NVG stimulation
- 2nd Generation solid state LED
- 1000 lumen brightness
- 1920 x 1200 or 1080p native resolution
- 810 nm IR wavelength (850 nm optional)
- 0-100% adjustable visible RGB
- Full spectrum display (RGB + IR)
- Adjustable SRP™ smear reduction processing
- Up to 100.000 hours service life
- Designed for 24/7 operation
- Designed for multi-channel systems
- Unique colour matching capabilities with RealColor™
- Unrestricted installation flexibility
- Wide range of Ultra HQ projection lenses

Product specifications

FS33 IR SERIES

General specifications

| | |
|------------------------------|---|
| Concept | RealLED™ IR technology, all-glass optical design with lens shift |
| Resolution | 1080p (1920 x 1080) WUXGA (1920 x 1200) |
| Brightness | Up to 1000 lumens (Infinitely adjustable) |
| Contrast | Up to 4000 : 1 (16:9 (1080p) 16:10 (WUXGA)) |
| Technology | 2nd Generation Solid State LED based single chip DLP® projector |
| Aspect ratio | 16:9 (1080p) 16:10 (WUXGA) |
| Display colors | 40-bit RGB + IR |
| Latency | ~22 ms on graphics port |
| Computer graphics formats | 1920x1200 |
| Horizontal scan frequencies | 10 -150 kHz (resolution dependant) |
| Vertical scan frequencies | 50 -110 kHz (resolution dependant) |
| Video formats | HDTV (1080p, 1080i, 720p) |
| Lens operation | Motorized zoom, Focus, Shift, Iris and Mechanical shutter |
| Image width | 0.7 -5 m |
| IR Wavelength | 810 nm |
| Light source | LED |
| Lamp lifetime | Up to 100.000 hours |
| Computer inputs | 1 x HDMI 1.3a 1 x DVI-D 1 x 5-BNC 1 x VGA 1 x XPort1 1 x XPort2 |
| Video Input | 1 x HDMI 1.3a 1 x YPbPr 1 x S-video 1 x Composite |
| Control possibilities | 1 x RJ-45 TCP/IP 2 x 9-pin D-SUB RS232 1 x USB 2 x 12V programmable trigger (3.5mm mini jack) 1 x Wired Remote 3.5mm mini jack |
| Dimensions | 510 x 223 x 376 mm (WxHxD) |
| Weight | 12.6 kg |
| Shipping Dimensions | 520 x 370 x 780 mm (WxHxD) |
| Shipping Weight from Factory | 20 kg |
| Power requirements | Certified rating: 8.4A, ~100-240V, 50-60Hz Typical consumption: Max 325W@100V, ~2.7A, 50Hz; ~1.2A, 240V, 50Hz |
| Operating temperature | 10 -40 °C |
| Storage temperature | -20 -60 °C |
| Altitude | Up to 3000 m |
| Operating humidity | 20-80% |
| Storage humidity | 10-90 % |
| Color | Black metallic |
| Warranty | Limited 3 years parts and labour Up to 5 years total extended 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 | 56,834 hours |
| BTU per hour | |

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