

# 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 that is rugged enough to be integrated onto motion platforms or in simple truss

systems, in any orientation angle.

### **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	ReaLED™ 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	

**Last updated: 15 Mar 2023**

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