

# FS70-4K6

4K UHD laser-phosphor projector with NVG stimulation



PULSE  
PROCESSING

24/7  
OPERATION



- **Designed for simulation**
- **Night Vision Goggles simulation**
- **4K UHD resolution**
- **Durable and robust for 24/7 operation**
- **High brightness (5,000 lumen)**
- **Long lifetime (up to 60,000 hours)**

The FS70-4K6 is a laser-phosphor projector with native WQXGA and up to 4K UHD resolution that was built specifically for simulation applications. This dedicated IR projector is the answer to the simulation market's specific requirements - including high robustness, longer lifetime, and laser-sharp image quality. It also allows for full individual control of visual and IR intensity to stimulate NVGs with IR transmission at 740nm. Dual iris and optical filters ensure better contrast and higher black levels.

Fitted with a protective metal that encases the entire projector, Barco's FS70 is robust enough to withstand a motion platform's rapid and sudden movements, making it the perfect choice for this type of application. With a lifetime of up to 60,000 hours (depending on the mode of operation), the FS70 is one of the most durable projectors on the market today.

#### Designed for 24/7 use

The FS70 is designed for performance and reliability. With the Constant Light Output functionality, the projector produces predictable and constant brightness and color over an extended period of time. And thanks to Barco's unique and proprietary Single Step Processing (SSP®) technology, all image processing for 4K UHD including warp, blend, gamma and color is calculated in a single operation. Performing this procedure in just a single step produces a much higher overall image quality, with a sharper image, fewer artifacts and less latency. The design of the FS70-4K6 also takes into account the mounting requirements and suite of lenses making the FS70 series the perfect choice for technology upgrade decisions.

#### Brighter, better

With brightness levels in simulation configurations of up to 5,400 lumens, the FS70-4K6 is one of the brightest single-chip DLP projectors on the market with 4K UHD resolution. Features especially designed for simulation include Smear Reduction Processing (SRPTM), dual input WQXGA @120HZ (4K UHD @60Hz), dual iris and optical filters for better contrast and higher black levels, as well as optics purpose designed for NVG stimulation.

**Product specifications****FS70-4K6**

General specifications	
Brightness	5,400 Typical ANSI Lumens
Contrast ratio	1800:1 sequential, 50,000:1 dynamic
IR for NVG	yes
Brightness uniformity	90%
Aspect ratio	16:10 native
Projector type	1DLP laser phosphor
Resolution	3,840 x 2,400 / 3,840 x 2,160 / 2,560 x 1,600 (native)
Lens type	FLD-series
Optical lens shift	Vertical up to 146%, depending on lens Horizontal up to 70%, depending on lens Motorized zoom and focus (+ lens memory FLDX lenses) Motorized lens shift (with position memory on all lenses)
Color correction	P7 RealColor™
CLO (constant light output)	Yes
Light source	Laser phosphor
Light source lifetime	Up to 60,000 hours, depending on mode of operation
Sealed DLP™ core	Yes
Orientation	360° rotation, no restrictions
3D	Active stereoscopic 3D
Image processing	Embedded warp & blend engine (Barco Pulse)
Keystone correction	Yes
Inputs	HDSDI 2x DP1.2 2x dual link DVI-I HDBaseT HDMI 2.0 (HDCP2.2, HDR10) RJ 45 Ethernet DMX in/out RS232 in 2x USB 12v out
Input resolutions	Including and up to: 3,840 x 2,400 @ 60Hz 3,840 x 2,160 @ 60Hz 4,096 x 2,160 @ 60Hz 2,560 x 1,600 @ 120Hz

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Input color depth	DVI: Including and up to 2560x1600@60Hz 8 bit RGB and 3840x2400@50Hz 8 bit RGB DisplayPort: Including and up to 2560x1600@120Hz 12 bit RGB and 3840x2400@60Hz 8 bit RGB
Software tools	Projector Toolset
Control	IR, RS232, RJ45
Network connection	IR, RS232, RJ45
Power requirements	100-240V / 50-60Hz
Power consumption	743 W nominal, 1100 W maximum
BTU per hour	Max 4,000 BTU/h
Noise level (typical at 25°C/77°F)	36 dB(A)
Operating temperature	10 -40 °C (sea level)
Storage temperature	-20 to 60 °C
Operating humidity	20 -80% RH
Storage humidity	10 -90% RH
Dimensions (WxLxH)	475 x 593 x 286 mm / 18,7 x 23,3 x 11,2 in
Weight	37 kg / 81,5 lbs
Standard accessories	Power cord, wireless remote control
Certifications	CE, FCC Class A and cNus
Warranty	Limited 5 years parts and labor, extendable

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