FS70-4K4

4K laser-phosphor projector with IR for NVG stimulation

4K 4096X2160

PULSE PROCESSING

LASER PHOSPHOR

CONSTANT LIGHT OUTPUT

IR INFRA RED

24/7 OPERATION

- **Up to 4K (3,840 x 2,400) resolution**

- **IR for Night Vision Goggles stimulation**

- **Durable and robust for 24/7 operation**

- **Improved motion Smear Reduction Processing (SRP)**

- **Long lifetime up to 60,000 hours (depending on mode of operation)**

The FS70-4K4, powered by Barco Pulse image processing, is an addition to the flagship F70 laser-phosphor series with native WQXGA and up to 4K (3,840 x 2, 400) resolution. This version comes with an added built-in IR LED light source to stimulate NVG for training at nighttime. It comes with improved performance for fast moving content, as well as improved color-to-white ratio, intended for high-demanding applications. Designed specifically for the simulation market's tough requirements it is robust and reliable, with an outstanding image quality.

Training with NVG

The FS70-4K4 has an added built-in IR LED light source to stimulate NVG for training at nighttime with IR transmission optimized at 740nm. It allows for full individual control of both the visual and IR light intensity, making sure the projector is tuned exactly to the trainee's scenery needs. The dual iris built into the projector ensure improved contrast and deeper black levels for the most realistic image reproduction.

24/7 operation for Low Total Cost of Ownership (TCO)

Designed for the motion platform's rapid and sudden movements, it is the perfect choice for any type of applications that need a robust visual system that last over time and can be operated 24/7. With a lifetime of up to 60,000 hours* coupled with long service intervals, the F70-series is one of the most durable projectors on the market and make sure the training time is maximized.

Optimized for smooth image performance

The FS70-4K4's powerful and improved Motion Smear Reduction Processing (SRP) is optimized to remove the typical challenges occurring when viewing fast-moving content, e.g. when an aircraft is rolling, pitching, or banking. Combined with an improved color-to-white ratio, the user will experience increased brightness in colors, better color performance across moving images and deeper black levels for an impeccable reproduction of scenes. The SRP feature will also have a positive impact on lifetime.

*Depending on the mode of operation

BARCO

Product specifications	FS70-4K4
General specifications	
Brightness	3,800 Lumens
Contrast ratio	1800:1 sequential, 50,000:1 dynamic
IR for NVG	yes
Brightness uniformity	90%
Aspect ratio	16:10
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^{TM}
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

Product specifications	FS70-4K4
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

Last updated: 22 Jun 2023

ENABLING BRIGHT OUTCOMES

BARCO