

# FS70-W6

WUXGA laser-phosphor projector with NVG stimulation



PULSE  
PROCESSING

24/7  
OPERATION



- Designed for simulation
- Night Vision Goggles stimulation
- Durable and robust for 24/7 operation
- High brightness (5,500 lumen)
- Long lifetime (up to 60,000 hours)

The FS70-W6 is a laser-phosphor projector with WUXGA resolution that was built specifically for simulation applications. This dedicated IR projector 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 Night Vision Goggles with IR transmission at 740nm. Dual iris and optical filters ensure better contrast and higher black levels.

Fitted with protective metal encasing 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 applications. 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 (CLO®) functionality, the projector produces predictable and constant brightness and color over an extended period of time. Designed specifically for training during dawn, day, dusk, and night, the FS70 offers the latest infrared technology that ensures an extremely realistic NVGs training experience alongside dimming possibilities from 0-100%, ensuring optimal training at any time of day. The design of the FS70 also takes into account the mounting requirements and suite of lenses, making the FS70 the perfect choice for technology upgrade decisions.

### Brighter, better

With brightness levels in simulation configurations of up to 5,500 lumens, the FS70 can effortlessly meet the requirements of any simulation system. This means that, along with minute details, you also have the matching brightness to see every single aspect of the simulation scene in absolute clarity. Features especially designed for simulation include Smear Reduction Processing (SRPTM), dual input @120HZ, dual iris and optical filters for better contrast and higher black levels, as well as optics purpose designed for Night Vision Goggle stimulation.

**Product specifications****FS70-W6**

General specifications	
Brightness	5,900 Typical ANSI Lumens
Contrast ratio	1,800:1 sequential, 50,000:1 dynamic
IR for NVG	yes
Brightness uniformity	90%
Aspect ratio	16:10
Projector type	1DLP laser phosphor
Resolution	1,920 x 1,200 (WUXGA)
Lens type	FLD-series
Optical lens shift	Vertical up to 134%, 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
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: 1,920 x 1,200 @ 60Hz 2,560 x 1,600 @ 120Hz

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<b>Input color depth</b>	DVI: Native including and up to 1920x1200@120Hz 8 bit RGB. Non-native including and up to 2560x1600@60Hz 8 bit RGB and 3840x2400@50Hz 8 bit RGB DisplayPort: Native including and up to 1920x1200@120Hz 12 bit RGB. Non-native including and up to 2560x1600@120Hz 12 bit RGB and 3840x2400@60Hz 8 bit RGB
<b>Software tools</b>	Projector Toolset
<b>Control</b>	IR, RS232, RJ45
<b>Network connection</b>	IR, RS232, RJ45
<b>Power requirements</b>	100-240V / 50-60Hz
<b>Power consumption</b>	743 W nominal, 1100 W maximum
<b>BTU per hour</b>	Max 4,000 BTU/h
<b>Noise level (typical at 25°C/77°F)</b>	36 dB(A)
<b>Operating temperature</b>	10 -40 °C (sea level)
<b>Storage temperature</b>	-20 to 60 °C
<b>Operating humidity</b>	20 -80% RH
<b>Storage humidity</b>	10 -90% RH
<b>Dimensions (WxLxH)</b>	475 x 593 x 286 mm / 18,7 x 23,3 x 11,2 in
<b>Weight</b>	37 kg / 81,5 lbs
<b>Standard accessories</b>	Power cord, wireless remote control
<b>Certifications</b>	CE, FCC Class A and cNus
<b>Warranty</b>	Limited 5 years parts and labor, extendable

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