

F70-4K6C

4K UHD laser-phosphor projector for simulation



The F70-4K6C is a laser-phosphor projector with native WQXGA and up to 4K UHD resolution that was built specifically for simulation applications. Unlike 'general purpose' projectors that are offered to a wide variety of markets, the F70 series answer to the simulation market's specific requirements - including high robustness, longer lifetime, and laser-sharp image quality. Projectors that do not meet these demands don't last long or require frequent and expensive maintenance.

Fitted with protective metal encasing the entire projector, Barco's F70 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 F70 is one of the most durable projectors on the market and is ready for service in the most

Designed for 24/7 use

The F70 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. 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 and fewer artifacts and less latency. The design of the F70-4K6C also takes into account the mounting requirements and suite of lenses - making the F70 series the perfect choice for technology upgrade decisions.

Brighter, better

With brightness levels in simulation configurations of up to 5,000 lumens, the F70-4K6C 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 (SRP[™]), dual input WQXGA @120HZ (4K UHD @60Hz), dual iris and optical filters for better contrast and higher black levels, as well as all-glass optics for razor-sharp, high quality images.

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Product specifications**F70-4K6C**

Projector type	1DLP laser phosphor
Resolution	3,840 x 2,400 (4K UHD) / 2,560 x 1,600 (native)
Brightness	5,000 center lumens
Contrast ratio	1800:1 sequential, 50,000:1 dynamic
IR for NVG	yes
Brightness uniformity	90%
Aspect ratio	16:10
Lens type	FLD/FLD+
Optical lens shift	Up to 134% lens shift, depending on lens. Motorized zoom, focus, vertical and horizontal shift, iris** and shutter.
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** (upgradeable) HDMI1.4 ** (2.0 upgradeable) RJ 45 Ethernet DMX in/out ** (upgradeable) 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
Software tools	Projector Toolset
Control	IR, RS232, RJ45
Network connection	IR, RS232, RJ45
Power requirements	100-240V / 50-60Hz
Power consumption	1,100 W Max.
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 cCSAus
Warranty	Limited 3 years parts and labor. Extendable up to 5 years
Notes	* SW upgradeable feature, available in Q2 2017 **HDMI2.0, HDBaseT ethernet and DMX available as software upgrade in Q2 2017

Last updated: 03 Jan 2017
Technical specifications are subject to change without prior notice.
Please check www.barco.com for the latest information.

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