

F70-4K4

4K laser phosphor projector



LASER PHOSPHOR



CONSTANT
LIGHT OUTPUT

24/7
OPERATION

PULSE
PROCESSING

1
CHIP
DLP

4K
UHD



- Up to 4K (3,840 x 2,400) resolution
- Durable and robust for 24/7 operation
- Improved motion Smear Reduction Processing (SRP)
- Long lifetime (up to 60,000 hours)

The F70-4K4, powered by Barco Pulse image processing, is a 4,000-lumen addition to the flagship F70 laser-phosphor series with native WQXGA and up to 4K (3,840 x 2,400) resolution. 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.

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 F70-4K4'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.

With the Constant Light Output (CLOTM) functionality, the projector produces predictable, constant brightness and color over time. And thanks to Barco's unique and proprietary Single Step Processing (SSPTM) technology inherent in Barco Pulse, the F70 can perform several simultaneous processing intensive tasks, like running 4K resolution and warping/blending, without adding extra latency, providing a sharper and higher overall image quality.

*Depending on the mode of operation

PRODUCT SPECIFICATIONS**F70-4K4**

| | |
|------------------------------------|--|
| Brightness | 3,800 ANSI Lumens minimum |
| Contrast ratio | 1800:1 sequential, 50,000:1 dynamic |
| IR for NVG | no |
| 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™ |
| 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 HDMI2.0 (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 refresh rates: 24Hz to 120Hz for WQXGA (2560x1600) and 24Hz to 60Hz for 4K/4KUHD (4096 x 2160/ 3860 x 2400) |
| 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 3 years parts and labor. Extendable up to 5 years |

Last updated: 29 Sep 2020Technical specifications are subject to change without prior notice. Please check www.barco.com for the latest information.