

F400-4K

4K UHD up to 120Hz projector



- **Up to 4K resolution @60-120Hz framerate for great image performance**
- **Revolutionary static laser-phosphor for speckle-free, outstanding image quality**
- **Rock-solid and true solid-state, fully rated for shock and vibration**
- **Next Gen Barco Pulse for more powerful processing and unified interface across all Barco projectors**
- **5 years warranty as standard**
- **Also available: FS400-4K with dedicated IR for NVG training**

The F400-4K is a true solid-state static laser-phosphor projector designed for the simulation and training market. With a resolution up to 4K, the F400-4K is built for the most challenging environments. The F400-4K was designed specifically for the demands of the training and simulation customer, and breathes the needed sense of realism into every simulation system.

With its processing speeds of up to 120 Hz (at WQXGA resolution), the F400-4K brings all details to life in the most dynamic, high-speed environments. This great performance never comes at a cost of the image quality, which follows the scenario perfectly, at lowest latency.

Designed to perform - in all circumstances

The F400-4K also benefits from the next generation proprietary Barco Pulse electronics - the powerful and flexible software architecture that ensures advanced low-latency processing operations, like pixel-shifting, warping and blending, to take place in one single processing step. This is a huge advantage in the real-time processing environment of most simulator systems today. What's more, our API enables partners to integrate custom management tools and value-add features to complement the projector's software.

Motion platforms, with their rapid sudden movements, are



challenging environments for projectors. The F400-4K is a true solid-state product, which means no moving parts like color or phosphor wheels and is fully rated for shock and vibration. With the electronics, hardware and software built around a unique H-beam shaped aluminum core, the F400-4K has an optimized strength-to-weight ratio providing a sturdy platform as well as easy access if servicing is required. Optional accessories to support the lens on motion-based platforms are also available, contributing to even higher image robustness.

A dedicated FS400 series, designed for NVG stimulation applications, features a powerful IR light source with increased intensity.

Product specifications**F400-4K****General specifications**

Notes	PRELIMINARY SPECIFICATION
Brightness	5,400 Typical ANSI Lumens 5,750 Typical Center Lumens
Contrast ratio	1,800 – 6,000:1 sequential
IR for NVG	No
Brightness uniformity	90%
Aspect ratio	16:10
Projector type	1DLP RGB-LaPh
Resolution	2,560x1,600 (WQXGA native) 3,840x2,400 (4K UHD)
Lens type	FLD+/FLDX
Optical lens shift	Vertical up to 144% depending on iris Horizontal up to 71% depending on lens Motorized zoom & Focus + Lens memory (FLDX) Motorized lens shift (all lenses)
Color correction	P7 RealColor™
Color space	REC709
CLO (constant light output)	Yes
Light source	RGB LaPh (static laser phosphor)
Light source lifetime	25,000 hours @ Full Power Up to 50,000 hours
Sealed DLP™ core	Yes
Orientation	360° rotation no restrictions
3D	Active stereoscopic 3D
Image processing	Embedded warp & blend
Keystone correction	Yes
Inputs	1 x DP 1.4 (HDCP 2.2) 1 x HDMI 2.1 (HDCP 2.2) 4 x DP 1.2
Input resolutions	Including and up to: 3840 x 2400 @ 60Hz, 3840 x 2160 @ 60Hz 4096 x 2160 @ 60Hz 2560 x 1600 @ 120Hz
Input color depth	Up to 12Bits depending on set-up's
Software tools	Projector Toolset + Android app + iOS app
Control	IR RJ45
Network connection	10/100/1000 Mbit
Power requirements	100-240V / 50-60Hz
Power consumption	764W Typical without overlap / 970W Typical with overlap / 1200W Max @230 volts
BTU per hour	2404 BTU/h Typical 3763 BTU/h Maximum
Noise level (typical at 25°C/77°F)	34 db(A)
Operating temperature	10°-40°C (sea level)
Standby power	< 0.5W
Storage temperature	-20 to 60 °C
24/7 operation	Yes
Operating humidity	20 -80% RH (no condense)
Storage humidity	10 -90% RH (no condense)
Dimensions (WxLxH)	562 x 472 x 286 mm / 22 x 18,5 x 11,2 In
Weight	31Kg / 68Lbs (no lens)
Standard accessories	Power cord, wireless remote control
Certifications	Compliant with IEC/EN/UL 62368-1 Complies with FCC rules & regulations, part 15 Class A and CE EN55032 CISPR 32(emmission)/EN55035 CISPR 35(immunity) Class A, Rhos
Warranty	Limited 5 years on parts and labor Extentable

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