FS400-4K

4K UHD up to 120Hz projector for NVG training

IR INFRA RED | LASER | 24/7 OPERATION

PULSE PROCESSING | CONSTANT LIGHT OUTPUT | 1 CHIP DLP | 4K

- **Up to 4K resolution @60-120Hz framerate for great image performance**

- **Revolutionary static laser-phosphor for speckle-free, outstanding image quality**

- **Superior IR illumination with 7x higher IR intensity for NVG stimulation**

- **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**

The FS400-4K is a true solid-state static laser-phosphor projector designed for the simulation and training market. With a resolution up to 4K and up to 120Hz processing speed, the FS400-4K is built for the most challenging environments. The FS400-4K adds a dedicated IR light source to the F400-4K's solid-state light engine with 7x higher IR intensity than previous models, allowing for individual control of visible light and IR intensity.

With its processing speeds of up to 120 Hz (at WQXGA resolution), the FS400-4K brings all details to life in the most dynamic, high-speed envrionments. 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 FS400-4K 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.

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Motion platforms, with their rapid sudden movements, are challenging environments for projectors. The FS400-4K 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 FS400-4K 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.

Product specificaties	FS400-4K
General specifications	
Opmerkingen	PRELIMINARY SPECIFICATION
Helderheid	5,400 typical ANSI Lumens 5,750 Typical Center Lumens
Contrastverhouding	1,800 – 6,000:1 sequential
Infrarood voor nachtkijkers	Yes
Helderheidsuniformiteit	90%
Beeldverhouding	16:10
Type projector	1DLP RGB-LaPh
Resolutie	2,560x1,600 (WQXGA native) 3,840x2,400 (4K UHD)
Type lens	FLD+/FLDX
Optische lensverschuiving	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)
Kleurcorrectie	P7 RealColor™
Kleurruimte	REC709
CLU (constante lichtuitvoer)	Yes
Lichtbron	RGB LaPh (static laser phosphor)
Levensduur lichtbron	25,000 hours @ Full Power Up to 50,000 hours
Verzegelde DLP™-kern	Yes
Oriëntatie	360° rotation no restrictions
3D	Active stereoscopic 3D
Beeldverwerking	Embedded warp & blend
Trapeziumcorrectie	Yes
Ingangen	1 x DP 1.4 (HDCP 2.2) 1 x HDMI 2.1 (HDCP 2.2) 4 x DP 1.2
Invoerresoluties	Including and up to: 3840 x 2400 @ 60HZ, 3840 x 2160 @ 60Hz 4096 x 2160 @ 60Hz 2560 x 1600 @ 120Hz
Kleurdiepte invoeren	Up to 12Bits depending on set-up`s
Softwaretools	Projector Toolset + Android app + iOS app
Controle	IR RJ45
Netwerkverbinding	10/100/1000 Mbit
Voedingsvereisten	100-240V / 50-60Hz
Energieverbruik	764W Typical without overlap / 970W Typical with overlap / 1200W Max @230 volts
BTU/uur	2404 BTU/h Typical 3763 BTU/h Maximum
Geluidsniveau (standaard bij 25°C/77°F)	34 db(A)
Bedrijfstemperatuur	10°-40°C (sea level)
Stroom in stand-by	< 0.5W
Opslagtemperatuur	-20 to 60 °C
24/7 operation	Yes
Vochtigheid in bedrijf	20 -80% RH (no condense)
Vochtigheid bij opslag	10 -90% RH (no condense)
Afmetingen (B x L x H)	562 x 472 x 286 mm / 22 x 18,5 x 11,2 In
Gewicht	31Kg / 68Lbs (no lens)
Standaardaccessoires	Power cord. wireless remote control
Certificeringen	Compliant with IEC/EN/UL 62368-1 Complies with FCC rules & regulations, part 15 Class A and CE EN55032 CISPR 32(emmision)/EN55035 CISPR 35(immunity) Class A, Rhos
Garantie	Limited 5 years on parts and labor Extentable

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