

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**

| | |
|------------------------------------|---|
| 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 | 1-chip DLP laser phosphor |
| Resolution | 2,560 x 1,600 (WOXGA native) 3,840 x 2,400 (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 | Static laser phosphor |
| Light source lifetime | Minimum 25,000 hours @ full power Up to 50,000 hours, depending on mode of operation |
| Sealed DLP™ core | Yes |
| Orientation | 360° rotation no restrictions |
| 3D | Active stereoscopic 3D |
| Image processing | Embedded warp & blend |
| 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 12-bit, depending on configuration |
| Software tools | Pulse Toolset + Android app + iOS app |
| Control | IR, RJ45, Cabled Remote Control |
| Network connection | 10/100/1000 Mbit |
| Power requirements | 100-240V / 50-60Hz |
| Power consumption | 815W typical 1200W maximum rated |
| BTU per hour | 2781 BTU/h typical 4095 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) | 472 x 562(542) x 293 mm / 18,6 x 22,1(21,3) x 11,5 in (front cover removed) |
| Weight | 31Kg / 68Lbs (no lens) |
| Standard accessories | Power cord, wireless remote control |
| Certifications | CE, FCC Class A and cSGSUS, KCC, CCC |
| Warranty | Limited 5 years on parts and labor Extentable |

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