

Transform training into instincts

Power. Speed. Precision. Meet the F400 projector series



BARCO

The new benchmark for power, speed and precision

Extreme situations bring out your instincts. And your instincts are only as good as your training. The Barco F400 series projectors bring power, speed and precision to high-end training systems, ensuring the smooth experience trainees need to really sharpen their skills and let every action become part of their instincts. Designed specifically for the demands of the training and simulation customer, the F400 series breathes the needed sense of realism into every simulation system to deliver the best possible training experience.



Power. Speed. Precision.

Experience extreme detail

The F400 series consists of the F400-N4K (up to 6K resolution), and the F400-4K (up to 4K resolution), both designed to bring the ultimate image quality to advanced simulator systems. In this way, you can project larger screens without losing any detail or achieve higher optical resolution in existing simulator setups with less real estate, further expanding the freedom of the simulation system designers.

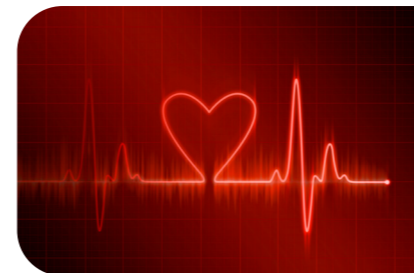
Designed for NVG simulation applications, the purpose-built FS400 versions add a dedicated IR light source with exceptional brightness intensity to the solid-state RGB light engine, boosting 7x more power than previous versions. This allows for individual control of visible light and IR intensity, with continuous dimming from 100-0% for training scenarios at any time of day.

Satisfying your need for speed

With the extraordinary processing powers of the next generation Barco Pulse, speeds up to 240 Hz at native 4K resolution or 120Hz at native WQXGA resolution (for the F400-4K), bring all details to life in even the fastest moving scenarios. This extreme performance does not compromise the image quality, which follows the high-speed scenario perfectly, at minimal latency. This makes the projector a brilliant match for even the most demanding applications, including fast jet or motor sport simulators.

Highly reliable at low TCO

The revolutionary high-speed laser light source creates speckle-free images of outstanding clarity in every situation. Brilliant colors, high brightness and a long lifetime are designed right into the F400. The Barco proprietary Constant Light Output (CLO) process guarantees linear brightness performance over a set time for total predictability. With limited energy consumption and a lifetime of up to 50,000* hours without the need for maintenance, the projector also ensures a minimal TCO. The F400 is also compatible with all current Barco FLD/FLDX-type lenses, ideal for preserving your past investments when updating to a higher performance visual system.



Built on Barco Pulse – the beating heart

The F400 series also benefits from the next generation proprietary Barco Pulse platform. The extraordinary high bandwidth capacity of this software architecture ensures multiple advanced processing operations, such as geometry correction, warping & blending and pixel-shifting. All can take place in one single step, ensuring the lowest latency possible. This is a huge advantage in the real-time processing environment of most simulator systems. What's more, our API enables partners to integrate custom management tools and value-add features to complement the projector's software. Barco Pulse is THE ultimate tool to make any system future-proof and scalable.



Designed for rock-solid operation

Motion platforms, with their rapid sudden movements, are challenging environments for projectors. That is why the F400 series is fully rated for shock and vibration. With the electronics, hardware and software built around a unique H-beam shaped aluminum core, the F400 series has an optimized strength-to-weight ratio providing a sturdy platform – specifically designed for rock-solid performance in even the most extreme situations. With its solid-state light engine and a very robust core, the F400 keeps performing no matter which direction the force is coming from. The innovative H-beam core structure further simplifies maintenance and service with direct access to critical components from both the top and bottom of the product.



Barco, at your service

A worldwide team of Barco service engineers is available around the clock. All service and support questions are handled with the necessary urgency to ensure your system's uptime – and your commitments to your staff and customers. Our projectors are designed for 24/7 operation with a full 5-year warranty. Optional warranty exceeding 5 years available for added peace of mind.

*depending on mode of operation

The perfect match for every simulation system

The F400 series answers the requirements of every simulator. Whether you need robustness, high detail or extreme speed, this projector delivers the performance you expect. From flight training for civil aircraft, high-speed jet aircraft and helicopters, to vehicle training and ship-bridge simulation, the F400 is the projector platform that delivers a vision to trust.



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