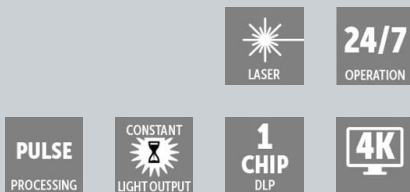


F400-N4K

Native 4K up to 240Hz projector for simulation



- **Native 4K resolution @60-240Hz framerate for incredible image performance**
- **Dynamic resolution up to 6K and 8K with built-in or external pixel-shift**
- **Revolutionary RGB 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**

For more information on availability, please contact your Barco sales representative. Contact us

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The F400-N4K is a true solid-state LASER projector designed for the simulation and training market. A native 4K resolution up to 240Hz processing speed projector, the F400-N4K combines extreme detail and very high speed, suitable for any simulation environment. The F400-N4K was designed specifically for the demands of the training and simulation customer, and breathes the needed sense of realism into every simulation system.

High resolution and extreme speed

The F400-N4K is Barco's first single-chip DLP native 4K (4,096 x 2,176) projector. Using built-in or external pixel-shift, the dynamic resolution can be raised to way beyond 4K, to 6K and 8K. In this way, you can project larger screens without losing any detail, further expanding the freedom of the simulation system designers.

With its processing speeds of up to 240 Hz at 4K resolution, the F400-N4K brings all details to life in even the fastest moving scenarios. This extreme performance never comes at a cost of the image quality, which follows the high-speed scenario perfectly, with very low latency. This makes the projector a brilliant match for even the most demanding applications, including fast jet or racing simulators.



Designed to perform - in all circumstances

The F400-N4K also benefits from the next generation proprietary Barco Pulse electronics, the powerful and flexible software architecture that ensures advanced low-latency processing operations to take place in one single step. This is a huge advantage in the real-time processing environment of most simulator systems today. What's more, Barco Pulse features an expansion port for optional modules to increase the range of standard inputs, and 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-N4K 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-N4K has an optimized strength-to-weight ratio providing a sturdy platform. Optional accessories are also available designed to support the lens on motion-based simulators contributing to even higher image robustness.

[Download preliminary specsheet](#)

Product specifications**F400-N4K**

| General specifications | |
|-----------------------------|--|
| Notes | Following specs are preliminary |
| Brightness | Up to 5,000 Typical ANSI Lumens |
| Contrast ratio | 2,000 – 10,000:1 sequential |
| IR for NVG | no |
| Brightness uniformity | 90% |
| Aspect ratio | 1.88:1 |
| Projector type | 4K 1-chip DLP LaPh RGB projector |
| Resolution | 4,096 x 2,176 (native) |
| Lens type | FLC, and FLDX with separate F400 lens holder adapter |
| Color correction | P7 RealColor™ |
| 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 engine |
| 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: 4,096 x 2,176 @ 60Hz 4,096 x 2,176 @ 120Hz 4,096 x 2,176 @ 240Hz |
| Software tools | Prospector, PToolSet |
| Control | IR, RJ45, Cabled Remote Control |
| Network connection | RJ45 |
| Power requirements | 100-240V / 50-60Hz |
| 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) | 472 x 562(542) x 286 mm / 18,6 x 22,1(21,3) x 11,3 in (front cover removed) |
| Weight | 30,0 kg / 66,1 lbs |
| Standard accessories | Power cord, wireless remote control |
| Certifications | CE, FCC Class A and cNus |
| Warranty | Limited 5 years parts and labor, extendable. |

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