Upgrade solutions

For flight simulation visual displays
Scalable, high-quality upgrade solutions and services for all your requirements

No matter what your upgrade requirement – from retrofitting an older system to implementing a new installation to spare parts fulfillment or service, the Barco team can provide the specific visual display solution and services you need to get the most from your simulation display system.

Collimated system upgrades

Barco Simulation offers several upgrade solutions to retrofit older collimated simulators.

- **Wide-Angle Collimated (WAC) systems** – Barco’s full-featured projector-based systems are specially designed to replace obsolete 25” monitor visual systems used in WAC window optical systems. This solution enables the simulator visual display system to be upgraded using the original optics, facility, and motion base where upgrades to cross-cockpit visual systems are cost prohibitive and may not fit due to facility constraints and motion-base limitations. Raster and raster/calligraphic systems are available for FAA Level C or D operation.

- **Cross-Cockpit Collimated systems** – Barco’s line of high-performance raster/calligraphic projection systems are engineered to replace obsolete projectors used in cross-cockpit collimated systems. These projectors offer outstanding performance for a broad-range of multi-channel, wide field-of-view applications and are approved for FAA Level C and D operation.

Custom upgrades

Barco Simulation has the in-house capabilities and resources to design, build, implement, and support a custom solution to meet your unique upgrade application needs. From small modifications to large complex systems, our experienced team of engineers can implement custom solutions on time, on budget, and to specification.

New system installations

Whether you need a single system at a single facility, or several systems at multiple facilities, effective planning, coordination, management, and consistency of delivery is critical to the success of installation and deployment projects. Barco Simulation can help you deploy a new system to support your simulation display requirements. Each project involves preliminary analysis, detailed engineering and design, project management, factory acceptance testing, integration and installation, on-site training, service and support.

System tools to improve operations

Barco offers powerful tools for multi-system control and automated alignment. These technologies work hand-in-hand to streamline the setup, control, and alignment process allowing simulation centers to perform daily operational tasks faster, better, and more cost effectively. Simulation centers realize big savings, which directly benefit the bottom line.

Spares and repairs services

Barco Simulation provides numerous services to optimize performance and minimize downtime of your equipment for many years after the sale. We stock a comprehensive range of replacement parts. Our in-house capabilities include replacing/rebuilding visual display components; restoring display components; completing repairs; and updating display control systems. Barco’s team of experienced service engineers often perform repair and maintenance services on visual display equipment at the simulation facility.
Complete upgrades...

Upgrading your visual display equipment should not be underestimated, nor should it be entrusted to resources that might not have the highest expertise in flight simulation display systems and applications.

Barco Simulation offers a full range of simulation display solutions and services specifically focused on eliminating any worry in upgrading. We’ve been designing, manufacturing, implementing, upgrading, and supporting visual display systems for a long list of large and medium-sized flight simulation companies for over 20 years.

from a knowledgeable team

Reduce risk by working with the technology leader

Barco Simulation is the leading solutions provider of visual displays systems in the world. We complete hundreds of upgrade and new system projects each year. As an original equipment manufacturer, we’ve seen more situations and have been involved in more projects than most visual display companies. Chances are we’ve already implemented an upgrade solution much like yours. By specifying the best possible visual display system or service, we avoid reinventing the wheel, which saves you time and money. When you partner with Barco Simulation, we reduce your risk and you realize the following bottom-line advantages:

Lower total cost of ownership

Another key advantage of working with Barco Simulation: We know our products better than anyone else. That means we are uniquely qualified to get your system up and running faster and optimized for your simulation and training operations. You reap the rewards of increased efficiency sooner. These benefits not only lower the cost of ownership of your upgrade or new system, but they raise the return on investment as well.
From concept...

Concept engineering and design
Application and development engineers dedicated to your project work as a team to develop a display system solution to meet your demanding specifications. This includes the integration of hardware and software, such as image generation platforms and application content.

Project management
A certified project manager works with you and oversees the production, final installation, and on-site training for a project. All details of the project are checked in order to maintain Barco’s high benchmark for quality in outstanding individual turnkey solutions.

Global market expertise

Proprietary technologies

Analysis
Application engineers work out customized solutions, analyzing all parameters of an application including technological, architectural, environmental, and ergonomic factors.

Pre-sales
Whether you’re located in Korea, Japan, China, France, Germany, U.K., Italy, Spain, Sweden, U.S.A., or Brazil, Barco has a local team to assess your needs. Headquarters in the U.S.A., Europe, and China offer a global back-up with specialized assistance.
3 mm afsnijden

Total quality commitment

Global & local presence

Factory acceptance test
Customer evaluation of the implemented system at the Barco facility.

On site installation and integration
Specialized technicians with global experience and dedicated alignment tools and software carry out the implementation efficiently and accurately.

Financial stability

Service & maintenance
- Local service teams assist you worldwide if a problem arises.
- Different levels of service can be covered with dedicated maintenance contracts.

Training on site
Your staff operating the system receives comprehensive training that enables them to use the system at its full potential. Barco offers simple to extensive training programs.

Training on site
Your staff operating the system receives comprehensive training that enables them to use the system at its full potential. Barco offers simple to extensive training programs.

Installation & integration

Customer acceptance

Training on site

Service & maintenance

... to completion.
Global network for system support

Barco Simulation is committed to providing world-class, worldwide service and support including after-sales technical support, product and application training, and documentation services. Our customer support specialists provide professional, accurate, and timely responses seven days a week, 24 hours a day, every day of the year.

North America
- Canada
- United States

Europe
- Belgium
- Czech Republic
- Denmark
- France
- Germany
- Italy
- Netherlands
- Poland
- Spain
- Sweden
- Switzerland
- United Kingdom

South America
- Brazil
- Oceania
- Australia

Asia
- China
- India
- Israel
- Japan
- Malaysia
- Russian Federation
- Singapore
- South Korea
- Taiwan
- Thailand
- United Arab Emirates

Financing options

Barco Simulation offers a variety of financing options to meet your purchasing needs. We can help you secure bank financing, set up a leasing arrangement, or other payment plan. Our financing options are designed to give your business a competitive advantage, increased value, and rapid return on investment (ROI).

Contact us today
For assistance in evaluating your upgrade needs, write or call:

Barco Simulation
600 Bellbrook Avenue
Xenia, OH
45385-4053
Phone +1 (937) 372-7579
Fax +1 (937) 372-8645
Email: simulation.systems@barco.com