

A full range of COTS and custom visualization solutions



© US Navy - Michael W. Pomeroy

More than meets the eye

Barco's innovative visualization solutions provide more than meets the eye. Next to a full range of rugged displays, Barco offers video solutions, deployable computers and Command & Control workstations which can be configured to provide a complete range of rugged COTS solutions.



Extensive R&D efforts have resulted in wide-ranging capabilities, including system definition, hardware design, software development, environmental testing, flexible manufacturing, program management and lifetime support.

Qualified resources team up with your specialists to develop cost-effective, technologically advanced solutions that meet your program objectives. Furthermore, Barco's Integrated Logistics Support provides life cycle management and minimizes operation and support costs for the end-user.



Video solutions and sensor interfacing

Barco's video solutions offer more than meets the eye. They connect directly to your sensor and process image data to ensure that what you see is accurate and reliable. Coupled with our advanced solutions for digital RGB recording and networked distribution and display of radar and video information, image management is at your finger tips.

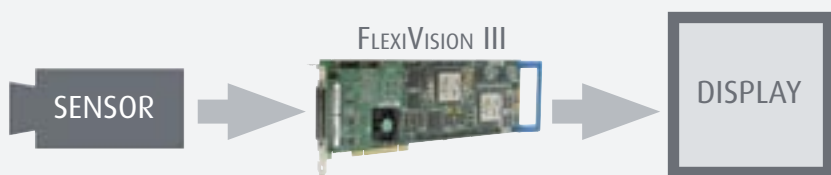
Features & benefits:

- Real time video processing
 - > Video fusion
 - > Image warping
 - > Image stabilization
 - > Super resolution
- Onboard PowerPC with embedded OS
 - > Provides direct web access
 - > Web based client control
- Switch Fabric Serial Rapid I/O
 - > Fastest movement of image data
- Analog and digital video input and output
 - > Supports latest interconnect technologies
- Single slot solution providing 6 independent windows
 - > 3 to 1 improvement of chassis usage

FLEXIVISION III - Advanced imaging platform

Barco's FLEXIVISION III product family offers a range of hardware and software solutions that allow you to mix a variety of sensors for single display viewing, digitally record the resultant image or perform image processing on the sensor images.

This new imaging platform is available in VME and PCI form factors. FLEXIVISION III is the latest imaging platform that will solve all of your video and imaging requirements.



Features & benefits:

- Low latency
 - > Radar signals are processed and distributed as received
- Low network loading
 - > Preserves bandwidth for other applications
- Up to 32 clients per server
 - > Fewer servers, less costs
- 19" rack mount servers
 - > Convenient standard mounting

RDDS – Radar Distribution and Display System

RDDS is Barco's state-of-the-art solution for networked distribution and display of radar information. The RDDS server is capable of processing multiple radar videos and distributing them simultaneously over today's industry standard networks to up to 32 clients. A single network wire can now replace complex and bulky analog cabling and switching hardware.



Rugged display solutions

Barco offers a complete series of rugged display solutions, ranging from 7 to 28 inch, with a variety of electronic, optical, environmental and video processing features and options. Flexible designs allow for easy adaptation to most customer requests. Target markets include fixed wing airborne, landbased and naval as well as mobile shelters.

A full family of rugged displays

Barco has designed a wide range of modular rugged displays for demanding military applications that require efficient Command & Control.

Barco's wide portfolio of models, features and options ensures that most application requirements can be met with a standard product. But if your application requires customization, Barco's Display Solutions Group stands ready to provide a custom solution that meets your specific needs.



Features & benefits:

- Display sizes from 7 to 28 inch and resolutions from VGA to WUXGA and 2K x 2K
 - > A full range from one supplier
- Unique front LCD bonding
 - > Superior optical characteristics
 - > Protection against extreme environments
- Full MIL-qualification (varies per model)
 - > Assurance of highest quality and reliability
 - > Assurance of full compliance
- Wide range of standard options
 - > Eliminates need for costly NRE
 - > Keeps time to market short



Special models:

- Special airborne versions
- Special naval versions
- Special landbased versions (low EMI emission profile)

Available options (vary per model):

- LCD Flicker Compensation (LFC)
- Touch screen
- High brightness/NVIS
- Special connectors
- Camera inputs
- AC or DC power supplies

Barco offers 6 different rugged display platforms to meet your needs. Models within each platform are designed to solve specific problems for land, air or sea applications. Some are more suited for direct view Command & Control, some for imaging such as FLIR or NVIS. Below is an overview of our offerings. Please read the specific leaflet or brochure for additional details or contact your Barco representative

	Model	Viewable size	Resolution	Key features
	BARCO VECTOR family <ul style="list-style-type: none"> • PVM-118 • DM-1126 • DM-1131 	7" 10" 12"	854 x 480 800 x 600 1024 x 768	Video input only Programmable display HMI with AcTev Analog, digital and video inputs
	MPRD <ul style="list-style-type: none"> • MPRD-138 	15"	1024 x 768	HB/NVIS options Suitable for landbased applications Analog and video inputs Multi-function keys
	RFD family <ul style="list-style-type: none"> • RFD-251 	20"	1280 x 1024	Suitable for landbased, airborne and ship-board applications LCD Flicker Compensation Touch Screen
	FD-471	28"	2000 x 2000	Removable backlight tray
	MRFD family <ul style="list-style-type: none"> • MRFD-243 • MRFD-248 • MRFD-251 • MRFD-351 • MRFD-354 • MRFD-361 	17" 19" 20" 20" 21" 24"	1280 x 1024 1280 x 1024 1280 x 1024 1600 x 1200 1600 x 1200 1900 x 1200	Suitable for landbased, airborne and shipboard applications LCD Flicker Compensation
	TL family <ul style="list-style-type: none"> • TL-248 • TL-351 	19" 20"	1280 x 1024 1600 x 1200	Lowest weight 19" rugged display Less than 2" in depth

Command & Control COTS workstations

Barco's high-end rugged workstations and consoles are designed to perform in the most demanding Command & Control environments. Their modular concept allows for a high degree of customization and expandability, while keeping costs to a minimum.

MRDS - Modular Rugged Display Station

The Modular Rugged Display Station (MRDS) constitutes the core components of the MicroVISTA, but in a form factor that is easily console or bulkhead mounted, rather than deployable. Consisting of two modules, one a display module (DM), the other a display processing module (DPM), a large number of configurations is possible.

The DPM is based on a unique, modular and open architecture, offering a range of configurations to meet customer requirements. This includes network, peripheral and sensor interfaces, extended storage media and uninterruptible power supply capabilities.



Features & benefits:

- DPM drives existing display heads
 - > Can be used with full range of MRFDs
- Designed using COTS management philosophy
 - > Low-cost, long-term support
 - > Easy adaptation of latest technology
- Standard ETX computing modules
 - > Easy customization of I/O
 - > Fast adaptation to latest processors
- Low weight and compact dimensions
 - > Variety of mounting options
 - > Reduces wear and tear due to weight stress

MicroVISTA - Deployable rugged workstation

The MicroVISTA is an advanced deployable workstation for operation in mission-critical environments. The multi-functional MicroVISTA workstation combines high-end, embedded computing power with rugged display technology into a functional, single person transportable operator station.

Depending on their application, users can opt for a rugged display, ranging from 17" to 20" and with resolutions up to 1600x1200, all from Barco's existing range of field-proven rugged modules. MicroVISTA is available in tabletop or bulkhead configuration.



Features & benefits:

- Repackages the MRDS into a deployable unit
 - > No core computer/display development
 - > Easily adaptable package
- Low weight and compact dimensions
 - > One person transportable
 - > Desktop or bulkhead mounting
- Variety of standard options
 - > Low/no development costs
 - > Shorter time to market
- Use of existing displays
 - > Wide choice of sizes and resolutions
 - > Field-proven designs

Features & benefits:

- Flexible, split design
 - > Low NRE to meet your application
 - > Existing COTS designs can be used
- Large choice of functionalities and capabilities
 - > Choose from existing Barco displays, graphics and video solutions
- User-Configurable, open standard computing rack
 - > Keep processing up to date
 - > Low/no NRE
 - > Easily adapts to changing technologies
- Low weight
 - > Reduces vehicle wear and tear
 - > Fuel savings
 - > Easier installation
- Extensive Built In Test
 - > Quick SRU problem solving

VISTA 4000 – COTS console family

Barco's VISTA 4000 console series offers fully functional, ergonomic rugged working positions for the most demanding Command & Control applications. Designed for operation in naval environments, the VISTA 4000 series offers a wealth of HMI configurations and low or high-end environmental specifications.



Barco's support services:

- Supplier management: long-term support for your project
- Spares stocking plans
- Service centers around the globe
- Pro.CARE support management
- Project management
- ILS services

Integrated logistics support

To ensure maximum support and availability of its products, Barco has established a worldwide network of logistics support, with regional support people who understand your language and requirements. Highly qualified customer support personnel are your guarantee for technical expertise, fast turnarounds and long-term availability of spare parts. In addition, Barco provides technical documentation, professional training, consultancy and engineering services.



About Barco



Barco is a recognized international technology leader providing high-performance visualization components and subsystems for demanding niche markets such as Defense & Security, Avionics, Air and Vessel Traffic Control and Medical Imaging.

A continued, focused investment in research and development has given the company a unique expertise in providing high-performance, state-of-the-art visualization solutions. Its worldwide facilities are fully equipped for in-house design, development, testing and manufacturing. ISO 9001 certification, complete control of the production process, extensive environmental testing programs, worldwide customer support and project-specific customization, confirm Barco's commitment to technologically advanced, cost-competitive solutions.

Barco

Pres. Kennedypark 35
B-8500 Kortrijk, Belgium

Phone: +32 56 233 412

Fax: +32 56 233 013

E-mail: sales.defense@barco.com

BarcoView-TEXEN

7 Rue Roger Camboulives
BP 1226 - F-31037 Toulouse, France

Phone: +33 5 34 63 71 74

Fax: +33 5 34 63 70 20

BarcoView, LLC

3059 Premiere Parkway
Duluth, Georgia, 30097-4905, USA

Phone: +1 678 475 8000

Fax: +1 678 475 8100

E-mail: sales.barcoview-a@barco.com



In search of continuous improvement

K5906055 00.02 0806 © 2006 Barco

Technical specifications are subject to change without prior notice

www.barcodefense.com

