

Vista 4500

Multi-function rugged console



Vista 4500 is Barco's latest family of multi-function consoles offering an ergonomic rugged working position for the most demanding sonar, Command and Control, fire control or situational awareness applications. The Vista 4500's modular approach makes it ideal for integration into various Combat Information Center (CIC) applications on board surface ships or submarines.

Barco's Vista 4500 consoles are fully network capable, so they successfully address the needs of modern CIC rooms, where reduced manpower and low cost of ownership is of utmost importance. Networked visualization makes it possible to visualize any real-time data anywhere in the CIC room and offers utmost flexibility, redundancy and survivability.

BARCO

Visibly yours

Ready for the network-centric battlefield

Barco's Vista 4500 comes in two configurations:

- The **Vista 4500-B** is a basic, cost-effective console that is fit for a full range of Command and Control applications.
- The **Vista 4500-E** is Barco's multi-function console featuring advanced and expandable computing. The Vista 4500-E version includes Barco's RDDS-2 radar solution as well as the FlexiVisionIII video streaming and recording option.

User-configurable consoles

Barco's Vista 4500 has a modular design, which enables you to build your console as you need and comply with all operational requirements and constraints. Vista 4500 can draw from Barco's full product range of qualified rugged components, including rugged naval displays and a wide choice of input devices (track ball, keyboard, joysticks ...).

In addition, Vista 4500 supports the latest multi-core computing capabilities which allows operators to display and process information according to the latest performance standards.

Barco's Vista 4500 consoles combine a configurable Base Unit and an ergonomic Human Machine Interface Unit. This fully modular, split-design offers optimal flexibility and allows easy customization according to the required functionalities and the operator's interfacing needs.

For the HMI Unit, customers can select their preferred flat panel display from Barco's full range of LCD displays (ranging from 19" to 30"). Operators are free to combine several screen sizes and can configure the operator desk display(s) for their applications. Other HMI options include: single- or dual head console, side-by-side or top-down console, touch screen input capability, track ball, keyboard, joystick, audio devices and configurable, fixed function keys.

Fully qualified and field-ready

Choosing Vista 4500 means choosing a risk-free visualization solution, because it is already fully qualified before your project begins. The Vista 4500 console has been engineered and built in Barco's tradition of stringent design, extensive configuration control, in-house environmental testing and fully controlled production processes.

Visualize and process wherever you want

Barco's Vista 4500 consoles are fully network capable allowing operators to view and process their radar, video and RGB images over the network.

The opportunities of networked visualization for CIC operations are numerous: greater accessibility to data and information throughout the vessel, and more flexibility to view and share your sources wherever there is a need.

One of the strongest advantages of networking technology is the inherent switching capability. You can now send visual content anywhere without complex and expensive cabling or routing equipment. Moreover, new visual sources can be added anytime, wherever there is connectivity.

Compact display technology

Vista 4500 can make use of Barco's full range of thin and lightweight displays, which have been developed to be extremely rugged, low weight, and reduced in dimension.

Barco's TL display series has been developed with a special eye to easy integration into racks and consoles. The TL displays can be equipped with Barco's unique LCD Flicker Compensation (LFC) solution, which allows operators to view acoustic sonar images or dense scrolling data without distracting flicker effects. Barco's TL displays optionally come with high-accuracy touch screen functionality.



Vista 4500-B version,
single head configuration



Vista 4500-E version,
top-down, dual-head configuration

Optional networked radar software

Barco's optional RDDS-2 software is a cost-effective radar visualization solution that allows you to access your radar sources over the network. RDDS-2 makes expensive radar scan conversion hardware redundant and therefore it reduces the system cost significantly. RDDS-2 can handle all possible display resolutions with an upgrade path to higher CPUs. The open framework allows to custom design the software when third-party modules need to be integrated.



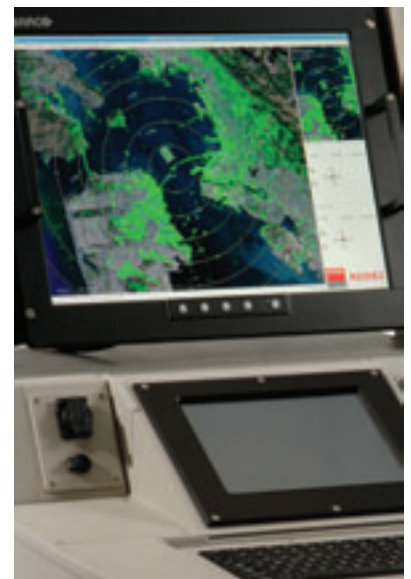
Vista 4500 can make use of a wide range of input devices

Optional real-time video and recording solution

Barco's optional FlexiVisionIII imaging platform is an advanced video streaming and display recording solution using JPEG2000 technology. FlexiVisionIII offers low-latency video streaming and lossless quality over Gigabit Ethernet. In addition, it enables to record any high resolution display (up to 1920 x 1200 pixels) either locally on the console or on a remote Network Attached Storage system. The stored information can then be retrieved and replayed from any working position in the network.

Why Vista 4500?

- Modular design, allowing multi-display configurations (mono-head, top/down, side-by-side)
- Slim, compact design
- Latest multi-core processor technologies
- Makes use of Barco's full range of rugged LCD displays (from 19" to 30")
- Fully MIL qualified
- Network-capable allowing for greater operational flexibility
- Optional networked radar software
- Optional real-time video solution
- Easily customizable HMI and computing
- Proven Barco technology, chosen by more than 20 navies worldwide



Barco's networked radar visualization software

Vista 4500 specifications

	Vista 4500-B	Vista 4500-E
General		
• Power	115-220 VAC, 50-60 Hz	
• Display	From 19" to 30" LCDs Different display layouts possible, including Dual Head Top/Down or Side by Side, Single head	
• Desk	Foldable Large range of input devices supported (Keyboard, track ball, joystick, throttle)	
• Human Factors	MIL-STD-1472	
• Touch input display	10" LCD panel with touch screen Optional embedded computer	Up to 2 x 10" LCD panel with touch screen Optional embedded computer
• Control terminal	2.2" LCD panel for health status, control buttons	
• Extensions	Function keys, external USB port, audio, ...	
• Dimensions HMI unit	(W x H x D, Weight)	(W x H x D, Weight)
- Dual Head Top/Down	650 x 1960 x 950 mm max, Weight < 125 kg	650 x 1690 x 950 mm max, Weight < 160 kg
- Dual Head Side by Side	1200 x 1300 x 950 mm max, Weight < 145 kg	1200 x 1300 x 950 mm max, Weight < 180 kg
- Single Head	650 x 1300 x 950 mm max, Weight < 105 kg	650 x 1300 x 950 mm max, Weight < 140 kg
Processing		
• CPU	Intel® Core™ 2 Duo	Intel® Core™ 2 Duo, Optional Quad core
• Graphics	Native chip set or optional embedded PCIe graphics module	NVidia™ PCIe 16x graphics boards
• Extension slots	-	PCI, PCIe
• Media	SATA HDD 250 GB system disk	• Removable SATA HDD 250 GB system disk • SATA DVD R/W • 2x optional removable SATA HDD > 750 GB
Environmental		
• Operating temperature	0° C to 50° C	
• Storage temperature	-30° C to 70° C	
• Humidity	95% at 40°C non-condensing	
• Vibration	MIL-STD-167-1	
• Shock	MIL-STD-810E	
- Hard mounted	50g - 6 ms half sine	
- Soft mounted	20g - 12.5 ms half sine	
• EMI/EMC	MIL-STD-461D/E	
• Degree of enclosure	MIL-STD-810E, 45°	
• Acoustic noise	MIL-STD-740-1 (SH) Grade C, 54 dB(A)	
• Electric power	MIL-STD-1399 Section 300A, STANAG 1008 ed9	

For other qualifications, please consult the factory.

Long term support

To ensure maximum support and availability of its Vista 4500 components, Barco has established a worldwide network of Integrated Logistics Support.

Serving navies worldwide

Over the last decades, Barco's console technology has been chosen by more than 20 navies worldwide. All this expertise, built up during many years, sums up to the most low-risk solution out there. But there's more. We have the capability to closely follow up your project with dedicated personnel and people that understand your language and requirements.



In search of continuous improvement

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Barco is an ISO 9001 registered company. The information and data given are typical for the equipment described. However any individual item is subject to change without any notice. The latest version of this product sheet can be found on www.barco.com

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