

# MicroVista

## Fully rugged workstation



Based on its broad range of rugged visualization components for mission-critical applications, Barco has developed MicroVista, an advanced rugged workstation for operation in the most extreme environmental conditions.

The multi-functional MicroVista workstation combines high-end computing power with rugged display technology into a functional, operator station, offering processing power wherever you need it.

### Why choose MicroVista?

- Available with various display sizes and resolutions
- Low weight and compact dimensions
- Fully qualified to high ruggedization levels
- Expandable design
- COTS management over the product lifetime
- The most recent and powerful processing power
- Easy interoperability thanks to fully open platform
- High-end video and image processing

**BARCO**

Visibly yours

## Processing where you need it

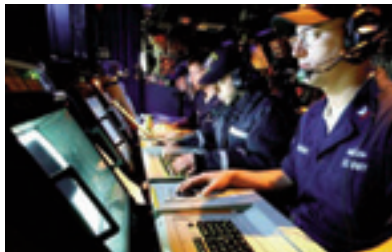
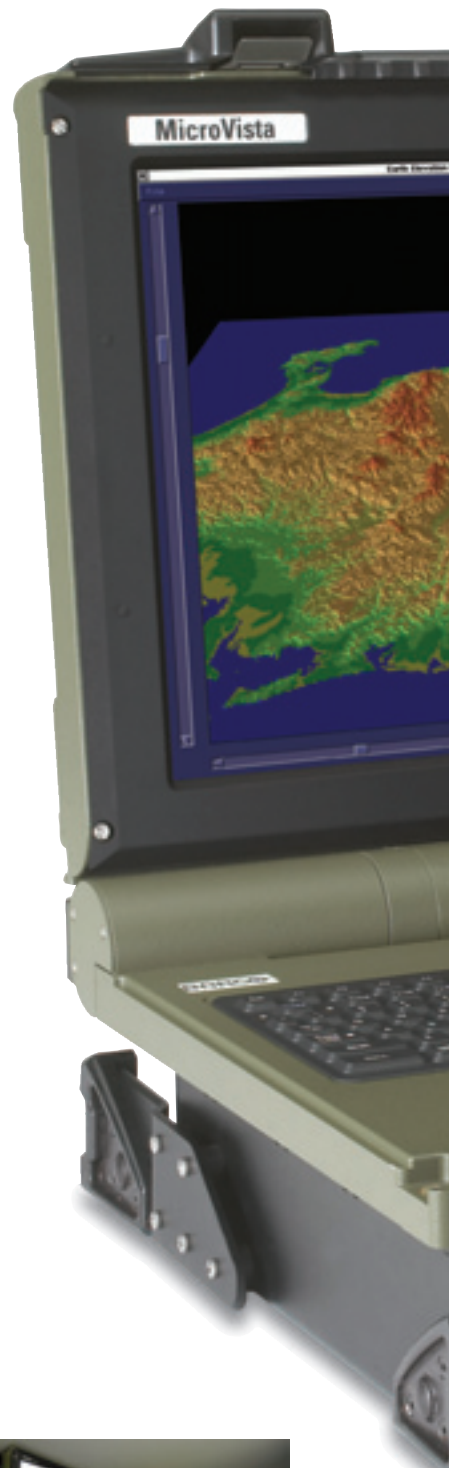
Depending on your application, you can opt for a rugged display, ranging from 17" to 20" and with resolutions up to 1600x1200, from our extensive range of field-proven display units. The integrated compact Display Processing Module (DPM) provides computing power through the latest state-of-the-art Intel® technology and high-end graphics processing from NVIDIA. MicroVista is available in tabletop or bulkhead configuration. Implemented as an open platform, the MicroVista further enables easy development of your specific mission software.

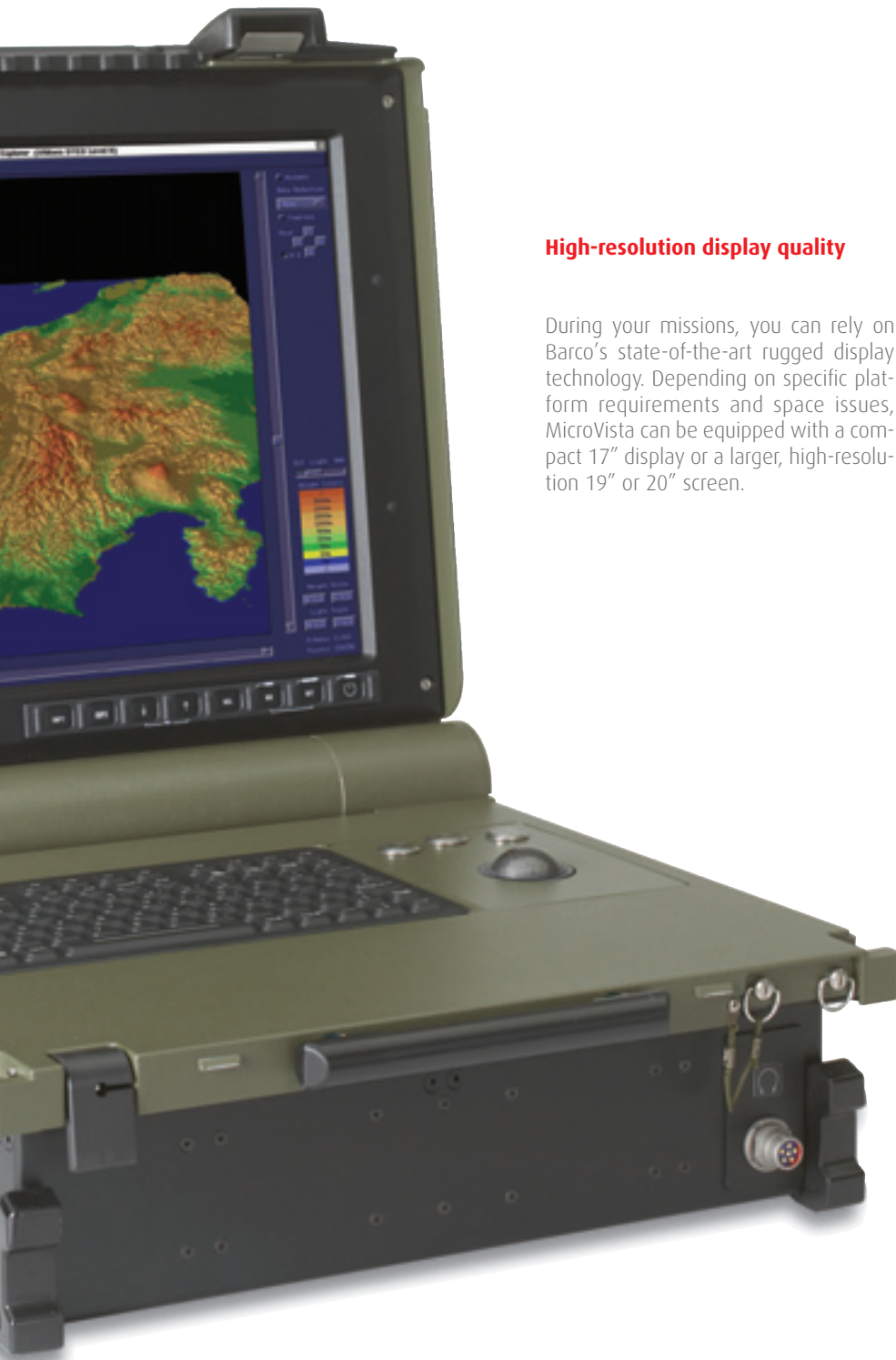
### Field-proven technology

The MicroVista workstation integrates Barco's qualified technology, thus providing a truly low-risk solution for mission-critical decision making. The use of field-proven components ensures low lifecycle cost, flexible upgradability and optimum support throughout the entire workstation's lifetime.



MicroVista bulkhead configurations





### High-resolution display quality

During your missions, you can rely on Barco's state-of-the-art rugged display technology. Depending on specific platform requirements and space issues, MicroVista can be equipped with a compact 17" display or a larger, high-resolution 19" or 20" screen.

### User-friendly human machine interface

To provide maximum user-comfort, MicroVista can be equipped with a broad range of customizable input devices and peripherals. In its basic configuration, MicroVista features a sealed rugged backlit keyboard, a Hula point pointing device, a practical indicator panel and space for up to 6 functional pushbuttons. These can be supplemented by a three-button trackball, touch-screen device, etc.



User-friendly, front-accessible USB and audio connection

### High-end processing power

MicroVista incorporates Barco's powerful Display Processing Module (DPM), which brings operators the high-end processing power they need to complete their mission. To offer maximum flexibility for integration, the DPM can be mounted under the desktop (table-top) or behind the display module (bulkhead).

# Technical specifications

Configurations	
Tabletop version	Tabletop version
Bulkhead version	Bulkhead version: 19" rack mount configuration with the computer module behind the display
Desktop configuration	Keyboard, Hula point and LEDs, trackball option
Transportability	Carrying handle

DPM specifications	
Processor Module	Core2Duo
Storage	8 - 128 GB Solid-State
Options Slot	High End Graphics board or comint I/O board or project specific PCI board
Video Input	6x Analog Composite
IO Panel	MIL Connector
Power Supply	28VDC - 704F
Operating System	Windows XP, Linux

I/O options				
Option 1 B	4x Discrete I/O 3x RS-170 In 3x 12 VDC (15W) 1x Gig Ethernet	6x USB 2.0 2x Serial	1x Audio	2x DVI-D (single link)
Option 2 E	2x Gig Ethernet 4x Discrete I/O 6x RS-170 In	3x USB 2.0 4x RS-232 1x Maintenance	1x Audio	2x DVI-D
Option 3 E	1x Gig Ethernet 1x 10/100 Ethernet 3x RS-170 in	8x Serial 6x USB 2.0	1x Audio	1x DVI-D (single link with DDC)
Option 4 E	2x Gig Ethernet 3x RS-170 In 2x Discrete In 1x Maintenance 1x System Reset	2x RS-232 4x USB 2.0	1x Audio 2x PS/2	2x DVI-D (dual link)
Comint	1x Gig Ethernet 4x Discrete I/O 3x RS-170 In 3x 12 VDC (15W) 16x Digital inputs 8x Digital outputs 4x Analog inputs (2x 0 to 5V and 2x 0 to 36V)	6x USB 2.0 7x Serial	1x Audio 2x CAN	1x DVI-D (single link with DDC) DVI-D

DPM Environmental specifications	
Low temperature	-30°C Continuous Operating
High temperature	+71°C Continuous Operating
Vibration	MIL-STD-810E, Continuous Operation, Tracked Vehicle
Shocks	MIL-STD-810F Method 516.5, Procedure 1 40g shock for 15-23ms duration, half-sine MIL-STD-901D (Flash only)
Altitude operational	MIL-STD-810F Meth 500.4 Proc II - 35,000 ft (238 mbar)
Altitude store/transport	MIL-STD-810F Meth 500.4 Proc I - 40,000 ft (188 mbar)
Humidity	MIL-STD-810F Meth 507.4 - Figure 507.4.1
Water Tightness	IEC 60529, IP55, IP67 option
Salt fog	MIL-STD-810F Meth 509.4 35°C - 5% saline solution, 48h
Sand & dust	MIL-STD 810F 510.4 procedure I
EMI/EMC	MIL-STD 461 E
Power	MIL-STD-704F
Grounding	MIL-STD-1310 G
Safety	IEC 60950 Compliant

Ref. no. K0000000SSE0409R002

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](http://www.barco.com).

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