

SV-126

10" smart display



Barco's SV-126 smart display combines a 10-inch touch screen with the graphics and computing power of a rugged computer to provide a high-performance visualization processor in a compact footprint. Because of its design for SWaP-C and modular open architecture, the SV-126 is ideal for vehicle-mounted C4ISR applications.

Extreme performance

Barco's SV-126 smart display offers the latest proven technologies, such as a rugged analog-resistive, low-reflection touch screen and the latest generation of Intel® Core™ processors. These features are packaged to deliver optimal performance while operating in harsh environments.

Modular design

The SV-126 includes 6 expansion slots based on open industry standards. This modularity allows customized IO configurations and dedicated hardware controllers to support multiple security domains.

Image processing and real-time performance

The SV-126 connects to a variety of imaging and data sources to deliver enhanced situational awareness. Barco's CommonSENSE media management software supplied with the SV-126 enables hardware-accelerated GPU-based image processing with low latency for stream decoding, scaling, windowing, and recording for after-action review and embedded training. The SV-126 can be optionally equipped with the Barco Video XMC Board for hard real-time video inputs directly to the screen.

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Product specifications**SV-126**

General specifications	
Panel size	10.4" diagonal, 4:3 aspect ratio
Resolution	1024 x 768 (XGA)
Color depth	6 bits/color 8 bits/color with patented dithering algorithm
Brightness	Day mode: min. 340cd/m ² / 100fL Night Mode: max 3.43cd/m ² / 1.0fL, dimmable to black
Contrast ratio	900:1 (dark environment)
Dimming ratio	Typ. > 200:1
HMI	4 control keys 32 function keys Rugged AR high-resolution touch screen
Computing	Intel® Dual-Core™ i3-3120ME, 2x 2.4GHz, 8GB RAM
Graphics card	Integrated Intel® HD Graphics 4000
Storage capacity	128GB Field Removable SSD, SATA 3.1 compliant (6Gb/sec)
Inputs - Outputs	1x Intel PRO1000 Gigabit Ethernet port 4x USB 2.0 4x serial lines (RS232/RS422/RS485) 2x CAN bus (ISO 11898, CAN 2.0 A/B, and J1939 compliant) HD audio in/out/micro 4x video inputs RS170, PAL/NTSC 4x GPIO + PTT I/O isolated or buffered as applicable
Option slots	1x MXM 1x XMC 4x miniPCIe
Operating system	Microsoft Windows 7 Ultimate for Embedded Systems, 64-bit
Power Supply	MIL-STD-1275D compliant
Power consumption	Power consumption 50W typ., 80W max (without heaters)
Dimensions	286 x 254 x 68 mm / 11.25" x 10.0" x 2.66" (w x h x d)
Weight	5.9 kg / 13 lbs
Environmental	(MIL-STD-810G) Operating temperature: -46 to +65 °C (+71°C with limitations) Storage temperature: -51 to +71 °C Humidity: 95%, 60 °C Altitude: 40,000ft operating, 50,000ft non-operating Salt fog: 48-hours, 5% concentration Sand and dust: blowing sand/dust Ingress protection: 1 meter immersion for 30 minutes Vibration: Tracked Vehicle profile Shock: 40g, 23ms (6 shocks/axis)
EMI / EMC	(MIL-STD 461F) Ground army
Options	
High brightness	Up to 680cd/m ² / 200fL
Rugged front filter (replaces touch screen)	Chemically-strengthened glass Front (optical) bonding Highly Efficient (HE) Anti-Reflective (AR) coating
CPU and memory upgrade	Intel® Dual-Core™ i7-3555LE, 2x 2.5GHz, 16GB RAM
Graphics upgrade	AMD® MXM E6760 GPU
Storage upgrade	256GB Field Removable SSD, SATA 3.1 compliant (6Gb/sec)
Barco Video XMC Board (VXB)	4x PAL/NTSC Video 1x RGB Input 2x HD-SDI Inputs 1x Gigabit Ethernet (GigE Vision or DEF-STAN 00-82 streaming) Gen-locking Real-Time video input to screen
Dual GigE miniPCIe	2x Intel PRO1000 Gigabit Ethernet ports

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Operating systems	Microsoft Windows XP, 32-bit RedHat Linux Enterprise Linux 6.x, 64-bit
Barco CommonSENSE Advanced	Includes advanced image processing functions such as fusion, stabilization, and warping (lens correction)
Real-time clock battery	Battery and Battery Holder
Stylus kit	Stylus, Holder, Tether
Rugged keyboard	Includes integrated pointing device