

SV-231 12-Inch Smart Display

Rugged touchscreen display with built-in graphics processing and modular expansion slots

Powerful processing and open architecture in a compact package deliver high performance for C4ISR applications



The SV-231 smart display from ScioTeq combines a 12-inch, high-bright touchscreen with the graphics and computing power of a rugged computer to provide a high-performance visualization processor in a compact footprint. With its design for SWaP-C and modular open architecture, this display is ideal for vehicle-mounted C4ISR applications.

Extreme Performance

Our SV-231 smart display offers the latest proven technologies, such as a rugged analog-resistive, low-reflection touchscreen 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-231 display includes six 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-231 display connects to a variety of imaging and data sources to deliver enhanced situational awareness. The media-management software supplied with the display enables hardware-accelerated GPU-based image processing with low latency for stream decoding, scaling, and windowing. The display can be optionally equipped with the VXB video board for hard real-time video inputs directly to the screen.



Product specification	
ELECTRO-OPTICAL	
Panel type	Active Matrix LCD
Panel active area	12.1 inch diagonal
Resolution	1280 x 800 (WXGA)
Color depth	6 bits/color 8 bits/color with patented dithering algorithm
Backlight	LED
Contrast ratio	700:1 in dark room typical
Dimming ratio	>200:1 typical
Brightness	Day mode: 680 cd/m ² / 200 fL min. Night mode: 3.43 cd/m ² / 1.0 fL max., dimmable to black
INTERFACES	
Signal Inputs	2x Intel PRO1000 Gigabit Ethernet ports 4 x USB 2.0 4 x serial lines (RS-232/RS-422/RS-485) 2 x CAN bus (ISO 11898, CAN 2.0 A/B, and J1939 compliant) HD audio in/out/micro4x video inputs RS-170, PAL/NTSC 11 x GPIO + PTT I/O isolated or buffered as applicable
HMI	4 control keys 32 function keys Rugged AR high-resolution touchscreen
COMPUTING	
Computing	Intel® Quad Core™ I7-6822EQ, 4 x 2.0 GHz
RAM	Up to 16 GB DDR3 SODIMM
Graphics card	Intel® HD Graphics 530
Storage	256 GB field-removable SSD, SATA 3.1 compliant (6 Gb/sec)
Option slots	1x PCI-e 1 x XMC or M.2 mini PCI-e 3 x mini PCI-e
Operating System	No Operating System installed
ENVIRONMENTAL CONDITIONS	
Vibration	Vibration: tracked-vehicle profile - MIL-STD-810G
Shock	40 g, 23 ms (6 shocks/axis) - MIL-STD-810G
Operational temperature	-46° to +65° C (+71° C with limitations) - MIL-STD-810G
Storage temperature	-51° to +71° C - MIL-STD-810G
Humidity	95% RH temperature cycle 60°C - MIL-STD-810G
Drip proof	MIL-STD-810F Meth 506.4 proc III
Altitude	40,000 ft operating, 50,000 ft non-operating - MIL-STD-810G
EMI / EMC	MIL-STD-461G - Ground Army
Sand & dust, salt fog	MIL-STD-810G - 48 hours, 5-percent concentration, blowing sand/dust
GENERAL SPECIFICATIONS	
Power	MIL-STD-1275E compliant
Power consumption	50 W typical, 80 W max. (without heaters)
Weight	6.6 kg / 14.5 lbs
Dimensions	334 x 254 x 68 mm / 13.15 x 10.0 x 2.66 inches (w x h x d)
Cooling	Passive

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The information and data given are typical for the equipment described. However any individual item is subject to change without any notice.

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