

Vista 500-600-700

Shelter/Naval rugged consoles for mission-critical environments



The Vista 500 consoles include: ScioTeq's RNA product for video distribution and/or desktop sharing and ScioTeq's radar display options.



Based on its broad range of rugged visualization component for mission-critical applications, ScioTeq has developed Vista 500 consoles, an advanced rugged working position to equip a Ground Control Station.

VISTA 500 is ScioTeq's latest family of consoles offering an ergonomic rugged working position for the most demanding Command and Control, fire control or situational awareness applications for on board shelter landbase or surface ships/submarines systems

ScioTeq's VISTA 500 console is fully MIL-qualified in terms of vibration, shock and EMI/EMC, so it easily withstands the harsh environmental conditions of a typical shelter/naval environment.

Three System architectures

Depending on the distributed computing systems architecture, ScioTeq has designed a new console product family able to address different types of working positions:

For systems with both the computing and graphics processing located away from the operator:

- VISTA 500 console: zero-clients simply provide DVI/USB HMI for remote computing.
- VISTA 600 console: zero-clients simply provide network-attached HMI. In this version the console integrates the ScioTeq's RNA Video Decoder over IP allowing screens contents sharing technology with sub-frame latency.

For systems with remote data computing but graphics client processing located in the operator workstation:

VISTA 700 console: Operator console provide dedicated graphics and video processing horsepower for user specific visualization operations such as windowing, rendering, and mixing of multiple data and sensor sources. The integrated computer platform is based on the sixth Generation Intel® Core™ i7 processors.



ScioTeq Display solution

Depending on your application, you can opt for one or two 23" rugged display(s) with HDTV (1920x1080) resolution and an additional 10.1" Rugged touch input terminal (1280x800 resolution) with Multi-touch touchscreen. The displays can be provided with the P-CAP Multi-touch touchscreen technology.

Console desktop

ScioTeq's VISTA 500 consoles provide an ergonomic Human Machine Interface based on a customizable desktop including :

- 10.1" Rugged touch input terminal (1280x800 resolution) with Multi-touch touchscreen.
- Industrial keyboard and sealed mouse (Standard desktop)
- Or fully integrated Rugged backlit keyboard and ergonomic 2"-3 buttons trackball (customizable desktop)
- Stereo audio speakers
- Optional Joysticks, Audio/Headset devices, One or two programmable secured pushbutton modules (SMARTKEYS).
- The console is wall-mounted or a pedestal option can be provided

Long term Support

To ensure maximum support and availability of its VISTA 500 components, ScioTeq has established a worldwide network of Integrated Logistics Support.

Features / benefits

- Networked video and radar visualization solutions for lower cost of ownership and redundancy
- Affordable yet powerful and modular solution for Land-based Shelter and Naval Multi-Function consoles
- Slim, compact and modular design, allowing multi-display configurations (single-head, top/down,) and future display integration
- Enhanced ergonomics for better user comfort
- Low risk solution with already qualified product line
- Esterline organization with extensive experience for long term support requirements
- One stop shop console offering with networked visualization and recording solutions



Vista500	
External interfaces	DVI inputs up to 1920x1200 and USB port (up to 15 meters)
Vista600	
Streaming video standards	IETF RFC4175 (uncompressed) IETF RFC3984 (H.264)
Network connections	2x 10GBASE-SR or 1000BASE-T 1x10/100BASE-T for maintenance
Vista700	
Computer performance	Intel® Core™ i7-6700 3.4GHz with 16GB system memory (up to 32GB) SATA3 2.5" 512Go SSD (system disk) Windows 7 - 64 bits and Linux CentOS - 64bits
Graphics	PCI Express 16x HD530 graphics chipset with three graphics outputs
Network connections	2x 1000BASE-T 2x RS422/232 ports
Vista 500-600-700	
Input devices	Standard desktop: Industrial Keyboard and Mouse, Customizable desktop: Rugged backlit keyboard and Trackball, Joystick in option Stereo Speakers Optional Multitouch touchscreen on the main displays, one or two Smartkey modules Optional audio headset connector and external audio input
Displays	1x or 2x main displays + 1x Touch Input Terminal inside the desktop (10.1" 1280x800 with P-CAP)
Dimensions	Top/Down: (WxHxD mm): 650x940x780 (excluding shock absorbers) Single Head: (WxHxD mm): 650x560x780 (excluding shock absorbers)
Power	100-240 VAC autorange, 50/60Hz Power Consumption: 300W typical
Weight	Top Down version: 65Kg Single Head version: 50 Kg
System availability	MTBF: Vista700: GF H24 typ. 6500h @ 25°C (depending of the final configuration) MTBF: Vista500: GF H24 typ. 11000h @ 25°C (depending of the final configuration)
Altitude/Low pressure operating	MIL-STD-810G Meth 500.4 Operating Up to 15000 ft (570 mBar)
Shocks Operating	MIL-STD-810G Soft mount: 50 g – 6 ms half sine and 40 g-11ms half sine Hard-mount: 20g – 11 ms half sine
Vibrations operating	MIL-STD-167-1 Type 1 MIL-STD-810G 514.6 Cat21, 1-100Hz/0.001g ² /Hz (0.3gRMS), 2h/axis
Vibrations during transportation Non operating	Mil-STD-810 G, Method 514.6, procedure I & II, category 4: truck highways: 1.0g RMS 10-500Hz vertical, 0.2g RMS 10-500Hz transversal, 0.7g RMS 10-500Hz longitudinal, 1h/axe for 1609km
EMI/EMC	CE directive CEM 2004/108/CE Electromagnetic Compatibility (dec 2004) Category: ITE (Information Technology Equipment) MIL-STD-461F Navy ships (surface ships)



Temperature	MIL-STD-810G Operating: -10°C to 55°C Limited to 0°C, 50°C on the VISTA600-750 or with P-CAP Touchscreen on the main displays Storage: -40 to +70°C
Humidity	MIL-STD-810G 95% @ 40°C non condensing according MIL-STD-810G Meth 507.5 fig 507.5-7
Drip Proof	MIL-STD-810G: Meth 506.4 Proc.III Tilting up to 45°
Fungus/Salt fog	MIL-STD-810G Meth 508.5: No materials that would promote fungus growth are used. Meth 509.4: Test on separate parts
Acoustic Noise	MIL-STD-740-1 <50dbA @ 1 m

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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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