

Communication Systems



The Vista500 consoles include: Esterline's RNA product for video distribution and/or desktop sharing and Esterline's RDDS-2 radar display options.

Based on its broad range of rugged visualization component for mission-critical applications, Esterline has developed Vista500 consoles, an advanced rugged working position to equip Ground Control Station.

VISTA500 is Esterline'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

Esterline's VISTA500 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 of the distributed computing systems architecture, Esterline 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:

- VISTA500 console: zero-clients simply provide DVI/USB HMI for remote computing.
- VISTA600 console: zero-clients simply provide network-attached HMI. In this version the console integrates the Esterline'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:

 VISTA700 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 fourth Generation Intel[®] Core[™] i7 processors.

(Technical specifications

	Vista 500	
External Interfaces	3x DVI inputs up to 1920x12	
	Vista 600	
Streaming video standards	IETF RFC4175 (uncompresse IETF RFC3984 (H.264)	
Network connections	2x 10GBASE-SR or 1000BAS 1x10/100BASE-T for mainter	
	Vista 700	
Computer performance	Intel® Core™ i7-4770S 3.1 G SATA3 2.5″ 256Go SSD (syst Windows 7 - 64 bits and Linu	
Graphics	PCI Express 16x HD4600 gra	
Network connections	2x 1000BASE-T	
	2x RS422/232 ports Vista 500-600-700	
Input devices	Standard desktop: Industrial Customizable desktop: Rugg Stereo Speakers Optional Multitouch touchsc Optional audio headset conr	
Displays	1x or 2x main displays + 1x T (10.1" 1024x600 with P-CAP)	
Dimensions	Top/Down: (WxHxD mm): 65 Single Head: (WxHxD mm): 6	
Power	100-240 VAC autorange, 50/ Power Consumption: 300W t	
Weight	Top Down version: 65Kg Single Head version: 50 Kg	
System availability	MTBF: Vista700: GF H24 typ MTBF: Vista500: GF H24 typ	
Altitude/Low pressure operating	MIL-STD-810G Meth 500.4 Operating Up to 15000 ft (57	
Shocks Operating	MIL-STD-810G Soft mount: 50 g – 6 ms half Hard-mount: 20g – 11 ms ha	
Vibrations operating	MIL-STD-167-1 Type 1 MIL-STD-810G 514.6 Cat21,	
Vibrations during transportation Non operating	Mil-STD-810 G, Method 514 truck highways: 1.0g RMS 10 10-500Hz longitudinal, 1h/ax wheeled vehicle: 2.2g RMS 5 5-500Hz longitudinal, 2h/axe	
EMI/EMC	CE directive CEM 2004/108/CE Electromagnet Catégory: ITE (Information Te MIL-STD-461F Navy ships (su	

Esterline 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 display (1024x600 resolution) with Multi-touch touchscreen. The displays can be provided with the P-CAP Multi-touch touchscreen technology.

Console desktop

Esterline's VISTA500 consoles provide an ergonomic Human Machine Interface based on a customizable desktop including :

- 10.1" Rugged touch input display (1024x600 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).

Long term Support

To ensure maximum support and availability of its VISTA500 components, Esterline 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

200 and USB port (up to 15 meters), ed) SE-T enance GHz with 8GB system memory (up to 16GB) stem disk) nux CentOS - 64bits raphics chipset with three graphics outputs l Keyboard and Mouse, ged backlit keyboard and Trackball, Joystick in option creen on the main displays, one or two Smartkey modules nnector and external audio input Touch Input Display inside the desktop 50x920x780 (excluding shock absorbers) 650x560x780 (excluding shock absorbers))/60Hz typical p. 6500h @ 25°C (depending of the final configuration) p. 11000h @ 25°C (depending of the final configuration) 570 mBar) lf sine half sine , 1-100Hz/0.001g²/Hz (0.3gRMS), 2h/axis 4.6, procedure I & II, category 4: 0-500Hz vertical, 0.2g RMS 10-500Hz transversal, 0.7g RMS axe for 1609km 5-500Hz vertical, 1.5g RMS 5-500Hz transversal, 1.9g RMS ke for 804km etic Compatibility (dec 2004) Technology Equipment) surface ships)

Temperature	MIL-STD-810G Operating: -10°C to 55°C with ACH and 0°C to +55° without ACH Limited to 0°C, 50°C on the VISTA600-750 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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