



- **12.1 TFT LCD LED Backlight**
- **Resolution XGA (1024x768)**
- **Def Stan 00-82 Vetronics Infrastructure for Video Over Ethernet (VIVOE)**
- **Available with GigE Vision capability**
- **Generic Vehicle Architecture (GVA) compatible**
- **Two PAL or NTSC analogue inputs**
- **Picture in Picture, Matrix and video scaling**
- **1000baseT Ethernet**
- **Customisable Overlay**
- **Programmable Edge Keys**
- **Touch Screen**

The VDS1201 is a ruggedised display fully compatible to generic vehicle architecture requirements. It features a display with a native display resolution of 1024 x 768.

The display has an integrated resistive touch panel and has GVA Human Machine Interface layout which conforms to Def Stan 00-25. Twenty programmable function keys are available which can be fully customised.

The VDS1201 is unique in a way that not only can it receive up to 4 full PAL or NTSC digital streams via its 1000baseT Ethernet port it can also encode and transmit the two attached analogue video inputs into a digital Def Stan 00-82 stream to be received by other displays or a central recording system. Tile and display up to 6 video inputs with reduced resolution.

Video input streams both digital and analogue can be scaled and presented in either a matrix or picture in picture format.

The display enclosure is manufactured out of a solid piece of milled aluminium to withstand the most demanding environments across a wide range of operational conditions.

Technical Specifications

Display	
Panel Size	12.1" diagonal
Resolution	XGA (1024 x 768 pixels)
Brightness	375cd/m ² (max)
Contrast Ratio	700:1
Response	35ms (Typical, Rising + Falling)
Viewing Angle	Horizontal and Vertical $\pm 70^\circ$ with CR = 10
Colours	16.7M colours, 262K
Backlight Technology	LED
Touchscreen	
Technology	Resistive
Control	USB/RS232
Video Inputs	
Analogue	2 PAL or NTSC
Digital	Up to 4 (4 Full PAL or NTSC format)
Video Outputs	
Digital	2 Encoded DefStan 00-82 streams
Bezel Keys	
	20 function keys
	GVA Dedicated keys (Def Stan 00-25)
	Up/Down (Dimmable LCD Backlight Operation)
	Power Button
	FWD camera
	Dimmable membrane backlight (Optional)
Optional Inputs / Outputs	
Communications	USB, RS232, Gigabit Ethernet
General Purpose	8 (TTL / LVTTTL)
Connectors	
	Amphenol Rugged MIL Standard Connectors (MIL-DTL 38999/3)
Mechanical	
Weight (Approx.)	6Kg
Dimensions	309mm(W) x 270mm(H) x 66.8mm(D)
Environmental	
Humidity	90% @ +40°C noncondensing
Ingress Protection	IP65
Temperature	Operating Temperature: -20°C to +50°C
	Storage Temperature: -30°C to +80°C
	Cooling: No Moving Parts. Passive
	Optional Extended Temperature Range (-46°C to +70°C)
Power	
	Input Power Voltage: 16-40V (28V Typical)
	Isolated DC/DC Converter (MIL-STD-1275 & MIL-STD-704)
	EMI & Transient Filter (DefStan 61-5)

Please Note:

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