- **12.1 TFT LCD LED Backlight**

- **Up to 16 PAL/NTSC video images can be tiled.**

- **Resolution XGA (1024x768)**

- **Customisable Overlay**

- **Programmable Edge Keys**

- **VGA/DVI input interface**

- **Extremely Rugged Enclosure**

- **Opto-isolated Inputs and Outputs for safe external peripheral control**

- **10/100 Base Ethernet Control**

- **Optional Touch Screen Interface**

The VDS769P16 is a ruggedised display with the capability of simultaneously displaying upto 16 video feeds. It features a 12.1" LCD display with a native display resolution of 1024 x 768.

The display has 20 customisable function keys and dedicated system keys which conforms to Def Stan 00-25. The display supports both PAL and NTSC video inputs which can be tiled in a range of formats.

Text and graphical overlay can be directly drawn onto the image by the internal ARM processor.

As well as a dedicated controller RS422 channel this are four RS422 channels for controlling external equipment such a daylight or thermal cameras.

Opto-isolated inputs (6) and outputs (12) allow safe connectivity to other peripherals.

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.

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VDS769P16

Ruggedised Flat Panel with 16 channel PIP capability

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 ± 70° with CR = 10
	Colours	16.7M colours, 262K
	Backlight Technology	LED
Control Interfaces		
	External Controller	1x RS422
	External Peripheral	4x RS422
	Ethernet Interface	10baseT/100baseT control channel
Video Inputs		
	Composite	16x PAL/NTSC
	VGA	1 x SXGA (1280x1024 @ 75Hz)
Video Outputs		
	Composite	16 – Buffered loop through outputs of the video inputs
		2 – Selectable/PIP copies of any of the video inputs
Bezel Keys		
		20 function keys
		8 fixed dedicated keys
		Up/Down (Dimmable LCD Backlight Operation)
		Power Button
		FWD camera
		Dimmable membrane backlight (Optional)
Optional Inputs / Outputs		
	General Purpose	6 Opto-isolated Inputs; 12 Opto-isolated Outputs
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 +60°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 (Def Stan 61-5)