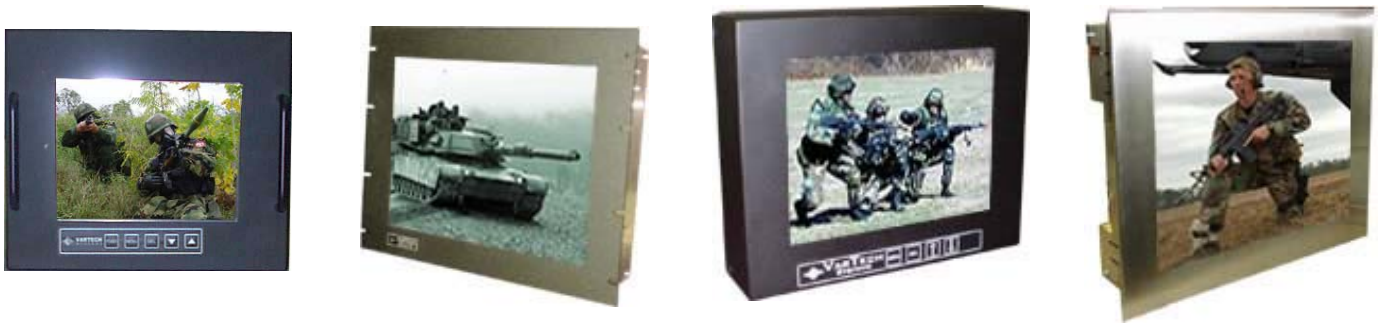
Improve Your Image

COTS Military Grade Ultra Rugged LCDs



DiamondVue Xtreme Series

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DiamondVue XTREME MILITARY GRADE

COTS ULTRA RUGGED LCD SERIES

VarTech's COTS Military Grade DiamondVue Xtreme Series of LCD displays excels in the harshest environments and most demanding applications. These LCDs are optically bonded and have chemically strengthened front glass with optional EMI coating. Electromagnetic Environmental Interference protection, enhanced shock and vibration safeguards, extended operational temperatures, and anti-reflective protective faceplates make these LCDs ideal for rough terrain vehicles, harsh weather field operations, and any other application which requires an ultra rugged flat panel solution.

DiamondVue Xtreme Military LCDs are compliant with these IEC Specifications and MIL-STDs:

- EN61000-4-2 - Electromagnetic Immunity
- FCC Part 15 – Class B - Electromagnetic Emissions and Evaluation
- High Temperature – Operating and Storage
- Low Temperature – Operating and Storage
- Humidity – MIL-STD-810F, Method 507.4-1
- Salt / Fog – MIL-STD-810F, Method 509.4
- Fungus – MIL-STD-810F, Method 508.4
- General Truck Vibration (Non Operating, in package)
- Tactical Transportation Vibration (Non Operation, un-damped equipment)
- Tactical Transportation Vibration (Non Operation, damped equipment)
- Transit drop – MIL-STD-810F, Method 516.5, Procedure IV
- Bench Handling – MIL-STD-810F, Method 516.5, Procedure VI
- Road Shock – Half Sine, 15Gpeak, 5 msec – MIL-STD- 810F, Method 516.5, Procedure I

EMI
- FCC Part 15 – Class B
- Optional MIL-STD-461D/E

Shock
- Designed to meet MIL-STD-901D

Vibration
- Designed to meet MIL-STD-167

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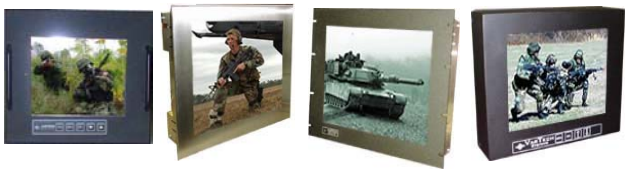

Available in 6.4” - 23.1” Sizes

XTREME SERIES FEATURES and OPTIONS

1. Mechanically engineered for extreme harsh environmental conditions.
2. Conformal Coating of all internal circuit boards for added protection against humidity, salt, etc.
3. Conformal Coating to all exterior metalwork for added protection against humidity, salt, etc.
4. High-end power supply engineered with high-grade components which are designed and tested for lower leakage current and higher dielectric strength. This power supply provides low earth leakage and low emissions while providing stringent isolation
5. Optically bonded laminated anti-reflective front protective glass (optional bonded touch screen).
6. FCC Class A & B level EMI/RFI protection (optional ITO coating or transparent MicoMesh for EMI/RFI shielding per MIL-STD-461).
7. Integrated heaters at the rear of the LCD panel for extended CCFL operational temperature capabilities down to -20°C (optional bonded thermal ITO conductive coating thin film & bus bar for -40°C operation).
8. Full-Range Linear Dimming to black (optional automatic dimming sensor or push button digital controls)
9. Strengthened humidity resistant bonding adhesive on all connectors and screws/ nuts for added shock & vibration protection.
10. Optional CCFL enhanced high brightness backlighting.
11. Optional Low Power LED enhanced high luminance 1000+ nits (cd/m2)
12. NVIS

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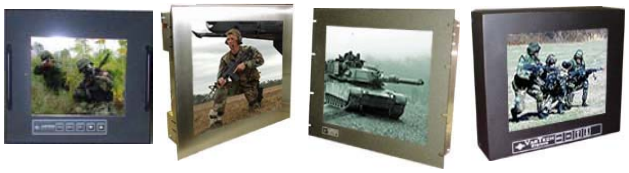

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MOUNTING OPTIONS

	NEMA 4 Panel	NEMA 4X Panel	VESA	RETMA Rack
6.4”	•			
8.4”	•	•	•	**Dual**
10.4”	•	•	•	•
12.1”	•	•	•	•
15.0”	•	•	•	•
17.0”	•	•	•	•
19.0”	•	•	•	•
20.1”	•	•	•	•
21.3”	•	•	•	•
23.1”	•		•	•

SCREEN PERFORMANCE

	Resolution	Brightness	Optional High Luminance
6.4”	VGA 640 x 480	400 nits	700 nits
8.4”	VGA / SVGA	400 nits	1400 nits
10.4”	VGA / SVGA / XGA	380 nits	850, 1200 nits
12.1”	XGA 1024 x 768	300 nits	1000 nits
15.0”	XGA 1024 x 768	450 nits	1500 nits
17.0”	SXGA 1280 x 1024	250 nits	1200 nits
19.0”	SXGA 1280 x 1024	250 nits	850 nits
20.1”	UXGA 1600 x 1200	250 nits	780 nits
21.3”	UXGA 1600 x 1200	250 nits	750 nits
23.1”	UXGA 1600 x 1200	250 nits	N/A