L-3 Communicatons Ruggedized Command & Control Solutions (L-3 RCCS) leads the way in the ruggedized computer and display industry with its family of smart display units. The TacVu10™ combines the processor and display modules into a single unit to reduce the size, weight and power (SWaP) footprint and benefits from common architecture and scalability to pass on cost savings to the customer. The TacVu10™ provides high-end computing, multiple minimum latency simultaneous video inputs, control of sensor inputs, data distribution and radio control, and onboard / off-board information distribution and management capabilities- all accessible from a family of multi-function, high-definition, resistive multi-touch smart displays. The TacVu10™ is a fully ruggedized and sealed unit, designed and tested to meet the rugged and severe environmental conditions where it will operate.

KEY COMPONENT FEATURES

- MIL-STD-3009 (NVIS Secure)
- High-performance 1.5 GHz Intel Core i7 processor
- 10.4-inch XGA display with touch screen
- Minimum latency simultaneous multiple video inputs
- Daylight readable
- Removable hard disk drive
- Built tough to survive in the harshest operational environments
- Runs Windows 7 or Red Hat Linux®
## Functional

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPU</td>
<td>1.5 GHz Intel Core i7</td>
</tr>
<tr>
<td>RAM</td>
<td>8 GB DDR3</td>
</tr>
<tr>
<td>Storage</td>
<td>Removable 64 GB Solid State Drive</td>
</tr>
<tr>
<td>Graphics</td>
<td>High Definition Graphics 3000</td>
</tr>
</tbody>
</table>

## Display

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active Area</td>
<td>210.4mm (H) x 157.8mm (V)</td>
</tr>
<tr>
<td>Colors</td>
<td>16.2 million</td>
</tr>
<tr>
<td>Resolution</td>
<td>1024 x 768</td>
</tr>
<tr>
<td>Aspect Ratio</td>
<td>4:3</td>
</tr>
<tr>
<td>Contrast</td>
<td>1000:1</td>
</tr>
</tbody>
</table>

## White Luminance (VESA 302-1)

| Specification          | 150 FL                                            |

## Night Vision

| Specification          | MIL-STD-3009 (NVIS Secure)                        |

## View Angle

| Specification          | Horizontal: ±80°, Vertical: ±80°                  |

## Touchscreen

| Specification          | Resistive (4096 x 4096)                           |

## Keypad

| Specification          | 32 backlit keys (MIL-STD-3009 NVIS Secure)        |

## Indicators

| Specification          | Power/Fault LED (MIL-STD-3009 NVIS Secure)        |

## Audio

| Specification          | Intel High Definition Audio Controller            |

## Input/Output Ports

| Specification          | J1939 CAN ports (2), RS170-A video input ports (4), RGB video input (1), VGA output (1), GigaBit Ethernet interface (2), USB 2.0 ports (3), RS-422 ports (4), RS232 ports (3), Microphone input (1), Audio output (1) |

## Environmental (MIL-STD-810G)

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature</td>
<td>Operating: -40°C to +71°C, Storage: -45°C to +85°C</td>
</tr>
<tr>
<td>Vibration</td>
<td>Method 514.6, Procedure I, Tracked and Wheeled Vehicles</td>
</tr>
<tr>
<td>Shock</td>
<td>Method 516.6, Operate: 40g, 11ms half sine, Survive: 75g, 6ms, half sine</td>
</tr>
<tr>
<td>Boot Kick</td>
<td>45 lbs ± 2 lbs, 30° angle</td>
</tr>
<tr>
<td>Altitude</td>
<td>Operate: 15,000 feet, Non-operating: 40,000 feet</td>
</tr>
</tbody>
</table>

## Environmental (MIL-STD-810G) continued

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Humidity</td>
<td>Method 507.5</td>
</tr>
<tr>
<td>Salt Fog</td>
<td>Method 509.5, Procedure I, One 24-hour cycle</td>
</tr>
<tr>
<td>Sand/Dust</td>
<td>Method 510.5, Procedure I &amp; II, 1 hour exposure</td>
</tr>
<tr>
<td>Driving Rain</td>
<td>Method 506.5, Procedure I, 1 hour exposure</td>
</tr>
<tr>
<td>Water Tightness</td>
<td>50 PSIG for 10 min</td>
</tr>
<tr>
<td>Explosive</td>
<td>Method 511.5, Procedure I</td>
</tr>
<tr>
<td>Atmospheric</td>
<td>Method 505.5, Procedure II, 7-24 hour cycles</td>
</tr>
<tr>
<td>Fungus</td>
<td>Method 508.6</td>
</tr>
</tbody>
</table>

## Electromagnetic Compatibility

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMI/EMC</td>
<td>MIL-STD-461E, Ground Equipment</td>
</tr>
<tr>
<td>HAEMP</td>
<td>MIL-STD-461D, RS105</td>
</tr>
<tr>
<td>ESD</td>
<td>EN 61000-402                                      Direct: 4 kV, Air: 8 kV</td>
</tr>
</tbody>
</table>

## Physical

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>≤ 9.0 lbs</td>
</tr>
<tr>
<td>Dimensions</td>
<td>8.80” (H) x 10.95” (W) x 3.085” (D)</td>
</tr>
<tr>
<td>Input Power</td>
<td>28 VDC per MIL-STD-1275</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>≤ 70 Watts</td>
</tr>
</tbody>
</table>

## Reliability/Maintainability

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTBF</td>
<td>8,000 hours</td>
</tr>
</tbody>
</table>

## Options

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intel Quad Core i7</td>
<td>Intel Quad Core i7 processor</td>
</tr>
<tr>
<td>RAM</td>
<td>Up to 16 GB RAM</td>
</tr>
<tr>
<td>Storage</td>
<td>Up to 256 GB Solid State Drive</td>
</tr>
<tr>
<td>HDD</td>
<td>Up to 500 GB Rotating HDD</td>
</tr>
<tr>
<td>Multi-Touch Touch</td>
<td>Multi-Touch Resistive Touch Screen</td>
</tr>
<tr>
<td>Configuration</td>
<td>Custom Bezel Configuration</td>
</tr>
<tr>
<td>Synchronous Serial</td>
<td>Synchronous Serial Ports (2)</td>
</tr>
<tr>
<td>Event Detection</td>
<td>Nuclear Event Detection</td>
</tr>
<tr>
<td>Cold Start</td>
<td>Cold Start (Heater)</td>
</tr>
<tr>
<td>External Keyboard</td>
<td>External Keyboard</td>
</tr>
</tbody>
</table>

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