VIDEOSCOUT-CM2

Rugged Communications Module

**Processing**

**Exploitation**

**Dissemination**

**PED Management System**

VideoScout® is a family of video processing, exploitation, dissemination (PED) and management systems designed to capture, display, exploit, disseminate, and manage critical video intelligence from a variety of manned and unmanned platforms. The VideoScout Communications Module (VideoScout-CM2) further expands the VideoScout family of systems by providing users with an environmentally protected, multi-band receiver suite that can collect two simultaneous aircraft video feeds, as well as collect video from two co-located sensors. All Intelligence, Surveillance, and Reconnaissance (ISR) information is displayed in real-time and is immediately available for exploitation. Real-time dissemination of video information can be sent over an Internet Protocol (IP) or tactical network. VideoScout-CM2 offers users the flexibility to process, exploit and disseminate real time or archived data anytime, anywhere. It is specifically designed to meet a wide array of operational mission requirements.

VideoScout-CM2 is a ruggedized, portable communications module designed for ground and marine operations; it can be mounted atop ships masts, surveillance towers, rooftops, vehicles, or any other desired platform.

Users can deploy multiple VideoScout-CM2s in order to expand their field of coverage and control any number of systems via standard IP networks. This significantly expands traditional Line of Sight (LOS) coverage and provides the end user with enhanced Situational Awareness (SA) across the area of operation.

VideoScout-CM2 is offered in two configurations:

- VideoScout-CM2, consists of a single L, S and C band receiver suite with a Ku-Band transceiver;
- VideoScout-CM2, Dual consists of two (x2) integrated L, S and C band receiver suites.

The VideoScout-CM2 product is packaged with the VideoScout-Insyte PED management software. This software enables users to capture up to 12 simultaneous video feeds, each with its own 7 day Digital Video Recorder (DVR) buffer. It also supports data archiving, along with immediate search, retrieval, exploitation and dissemination of captured video and/or associated imagery. VideoScout-Insyte is a Microsoft Windows™ based application, which facilitates easy integration into existing C4ISR systems and intelligence networks. This ability to easily exploit, manage, and disseminate data from multiple sources facilitates pre-mission planning, mission execution, and post-mission analysis.

**VideoScout - InSyte Video Exploitation and Analysis Software:**

- capture - process - exploit - manage - archive - disseminate
VIDEOSCOUT-CM2 RECEPTOR TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Band</th>
<th>Frequency Range</th>
<th>Band</th>
<th>Frequency Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Analog/Digital Receiver 1</td>
<td></td>
<td>Analog/Digital Receiver 1 and 2</td>
<td></td>
</tr>
<tr>
<td>L-Band</td>
<td>1625 MHz to 1850 MHz</td>
<td>L-Band</td>
<td>1625 MHz to 1850 MHz</td>
</tr>
<tr>
<td>S-Band</td>
<td>2200 MHz to 2500 MHz</td>
<td>S-Band</td>
<td>2200 MHz to 2500 MHz</td>
</tr>
<tr>
<td>Low C-Band</td>
<td>4400 MHz to 5000 MHz</td>
<td>Low C-Band</td>
<td>4400 MHz to 5000 MHz</td>
</tr>
<tr>
<td>High C-Band</td>
<td>5250 MHz to 5850 MHz</td>
<td>High C-Band</td>
<td>5250 MHz to 5850 MHz</td>
</tr>
<tr>
<td>Ku-Transceiver 2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ku-Band (receive)</td>
<td>14.40 GHz to 14.93 GHz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ku-Band (transmit)</td>
<td>15.15 GHz to 15.35 GHz</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

VIDEO AND DATA PROCESSOR SPECIFICATIONS

- External Interfaces: RS-170 (x2), Ethernet (x2), Two Antennas, Power Input
- Video: MPEG-2, H.264, MPEG-4 Part 2, NTSC, PAL
- Demodulation: FM, FSK 455 Kbps (Future), FSK 466 Kbps, SOOPS (DDL, CDL (CM2)
- Encryption: AES-256, Type 1 (Future)
- Data Decoding: KLV/Sub Carrier

ENVIRONMENTAL SPECIFICATIONS

- Size: 10.5"x8"x6.5" (HxWxD) (excluding mating connections)
- Weight: 22 lbs (excluding antennas)
- Operating Temp: -40°C to +55°C inclusive (W/solar loading to +65°C)
- Storage Temp: -46°C to +85°C inclusive
- Thermal Shock: MIL-STD-810F:40°C to +70°C non-operating
- Shock: 40g, 11 ms, 1/2 sine (CM2)
- Tactical Shock: MIL-STD-901D, lightweight, category I, grade B (CM2 Dual)
- Vibration: MIL-STD-810F, CAT 20 Ground Mobile (CM2), CAT 24, Min. Integrity (CM2 Dual)
- Radiated Emissions: MIL-STD-461E RE101 (Magnetic Field), RE102 (Electric Field)
- Conducted Emissions: CE101, CE102
- Conducted Susceptibility: CS114 (Bulk cable injection), CS115 (Spikes, Impulse), CS116 (Sinusoidal Transients)
- Radiated Susceptibility: RS101 (Magnetic Field), RS103 (Electric Field)
- Electrostatic Discharge: Personnel Borne (MIL-STD-1686) - when pins protected
- Salt Fog: MIL-STD-810F 509.3, 5% solution, 48 hours
- Fungus: MIL-HDBK-310 (Analysis only)
- Rain: MIL-810F Method 506.4, Procedure 1
- Dust: MIL-810F Method 510.4, Procedure 1
- Safety: In accordance with MIL-882 for systems safety
- Colors: Tan or Gray

10770 Wateridge Circle
San Diego, CA 92121
Tel: 858.623.6877
Email: VideoScout@L-3com.com
www.L-3com.com/sec

Cleared for public release by DoD/CSR under 11-S-0239 November 03, 2010
Data, including specifications, contained within this document are summary in nature and subject to change at any time without notice at L-3 Communications’ discretion. Call for latest revision. All brand names and product names referenced are trademarks, registered trademarks, or trade names of their respective holders.