

## **VIDEOSCOUT®-CM3**

### **Rugged Communications Module Processing, Exploitation, Dissemination (PED) Management System**

**The VideoScout®-Communications Module, 3<sup>rd</sup> Generation (VS-CM3) is an environmentally protected, semi-portable, remote video exploitation and management system designed for ground and maritime operations.**

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 sensors. The VideoScout®-Communications Module, 3<sup>rd</sup> Generation (VS-CM3) further expands the VideoScout® family of systems by providing users with an environmentally protected, semi-portable, remote video exploitation and management system designed for ground and maritime operations; it can be mounted atop ship masts, surveillance towers, rooftops, vehicles or any other desired platform. The VS-CM3 includes a secure L, S, C-Low and C-High band receiver, and a UHF, L, S, C-Low, C-High, Ku-Low, and Ku-High band transceiver that supports any length of off-the-shelf coaxial antenna cable with a maximum insertion loss of up to 15 dB (approximately 100-500 feet, depending on cable type).

As the only system of its kind, the VS-CM3 easily captures and leverages video and metadata from up to two Unmanned Aerial Systems (UAS), targeting pods, intelligence feeds, and other common sensors, as well as video from co-located perimeter security cameras. Users can deploy multiple VS-CM3s in order to expand their field of coverage and control any number of systems via standard IP-based network protocol. This significantly expands traditional Line-of-Sight (LOS) coverage

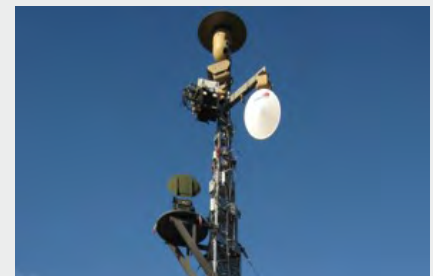
and provides the end user with enhanced Situational Awareness (SA) across the area of operation.

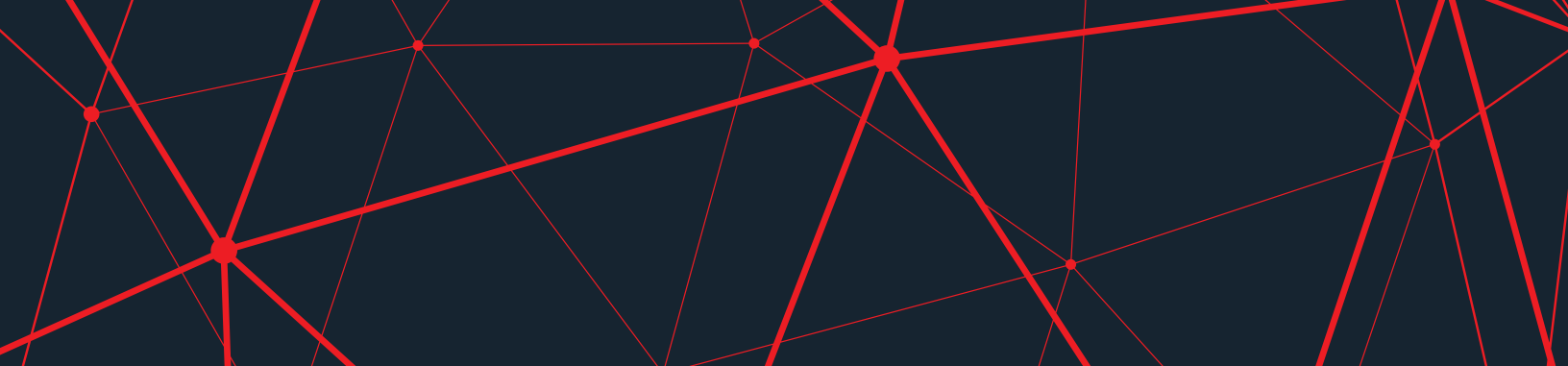
The VS-CM3 product is packaged with the VideoScout® PED management software, VideoScout®-Insyte®. With sufficient computer performance, this software enables users to capture 20+ simultaneous video feeds, each with its own 7-day Digital Video Recorder (DVR) buffer. It also supports data archiving, along 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. Users can pause, zoom, DVR, step back, and annotate video clips and images in near-real-time or on recorded video while recording voice from the user or external radios to support mission planning, execution, and post-mission analysis. Video and metadata are also stored and indexed automatically for subsequent search and retrieval. Warfighters can create geolocation smart video by synchronizing metadata and video with applications such as FalconView® maps or Google Earth™ from within VS-CM3 or via an Ethernet connection to Google Earth™ imagery.



#### KEY FEATURES

- > Ruggedized, portable communications module
- > Designed for ground and marine operations
- > Can be mounted atop ship masts, surveillance towers, rooftops, vehicles, or any other desired platform
- > Includes a secure L, S, C-Low, and C-High band receiver
- > Includes a secure UHF, L, S, C-Low, C-High, Ku-Low, and Ku-High band transceiver





SPECIFICATIONS	
External Interfaces	AES Key Fill (DS-101), Antenna (x2), Ethernet (x2), Power Input, RS-170A (x2)
Size	8.25" W x 10.5" D x 8" H
Weight	< 28 lbs (excluding antennas)
Colors	Gray, Tan, or Green
Power	85-265 VAC, 9-36 VDC, 95 Watts maximum
Video	H.264, H.265, MPEG-2, MPEG-4 Part 2, NTSC, PAL, RTSP

RECEIVER				
Waveform		Analog	DDL (2, 6 Mbps)	Tactical (0.466, 1.6, 3.2, 6.4 Mbps)
Frequency Band	L	Rx	Rx	Rx
	S	Rx	Rx	Rx
	C	Rx	Rx	Rx
Encryption: AES			X	X



TRANSCIEVER							
Waveform		Analog	BE-CDL A (0.512, 1, 2, 4, 8, 10, 16, 20 Mbps)	BE-CDL B Modes 101, 104 (0.2-44.736 Mbps)	CDL (0.2, 0.4, 2, 10.71A/B, 21.42, 44.73 Mbps)	DDL (2, 6 Mbps)	Tactical (0.466, 1.6, 3.2, 6.4 Mbps)
Frequency Band	UHF	Rx	Rx/Tx	Rx/Tx	Rx/Tx		Rx
	L	Rx	Rx/Tx	Rx/Tx	Rx/Tx	Rx	Rx
	S	Rx	Rx/Tx	Rx/Tx	Rx/Tx	Rx	Rx
	C	Rx	Rx/Tx	Rx/Tx	Rx/Tx	Rx	Rx
	Ku	Rx	Rx/Tx	Rx/Tx	Rx/Tx	Rx	Rx
Encryption: AES, Type 1			X	X	X	X	X

BANDS						
Frequency Band		UHF	L	S	C	Ku
Frequency		400 to 470 MHz	1.625 to 1.85 GHz	2.20 to 2.50 GHz* 2.025 to 2.50 GHz**	4.40 to 5.0 GHz 5.25 to 5.85 GHz	14.40 to 14.93 GHz 15.15 to 15.35 GHz

\* Receiver      \*\* Transceiver

ENVIRONMENTAL SPECIFICATIONS			
Altitude (Storage)	MIL-STD-810G, Method 500.5, Proc I, 40,000 ft.	Vibration (Shipboard)	MIL-STD-167-1A, Type 1
Altitude (Operating)	MIL-STD-810G, Method 500.5, Proc II, 15,000 ft.	Shock (Functional)	MIL-STD-810G, Method 516.6, Proc I, 40g, 11 ms
Temperature (Storage)	MIL-STD-810G, Method 501.5, 502.5, Proc I, -46°C to +85°C	Shock (Transit Drop)	MIL-STD-810G, Method 516.6, Proc IV
Temperature (Operating)	MIL-STD-810G, Method 501.5, 502.5, Proc II, -40°C to +65°C	Shock (Shipboard)	MIL-S-901E, Grade A, Class I, Type A
Temperature Shock	MIL-STD-810G, Method 503.5, Proc 1-C, -46°C to +85°C	Conducted Emissions	MIL-STD-461G, CE101, CE102
Rain	MIL-STD-810G, Method 506.5, Proc I	Conducted Susceptibility	MIL-STD-461G, CS101, CS114, CS115, CS116
Humidity	MIL-STD-810G, Method 507.5, Proc II	Radiated Emissions	MIL-STD-461G, RE101, RE102
Fungus	MIL-STD-810G, Method 508.6, Annex B	Radiated Susceptibility	MIL-STD-461G, RS103
Dust	MIL-STD-810G, Method 510.5, Proc I	Electrostatic Discharge	MIL-STD-461G, CS118
Vibration (Operating)	MIL-STD-810G, Method 514.6, Proc I, Cat 4	Safety	IAW MIL-882 for system safety
Vibration (Storage)	MIL-STD-810G, Method 514.6, Proc I, Cat 24		

**VideoScout®-CM3**

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