

VIDEOSCOUT®-CM4

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

The VideoScout-Communications Module, 4th Generation (VS-CM4) is a ruggedized, portable, video exploitation and management system designed for ground and maritime operations that provides the ability to control, receive, transmit and process real-time video, metadata and other Intelligence, Surveillance and Reconnaissance (ISR) information from ground and airborne surveillance platforms via remotely mountable seven-band antennas.

PRODUCT DESCRIPTION

VideoScout is a family of video PED management systems designed to capture, display, exploit, disseminate and manage critical video intelligence from a variety of manned and unmanned sensors. The VS-CM4 further expands the VideoScout family of systems by providing users with a ruggedized portable remote video exploitation 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 CM4 includes two UHF, L, S, C Low, C High, Ku-Low and Ku-High band secure transceivers and remotely mountable transceiver antennas that support 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). These antennas can be mounted atop ships masts, surveillance towers, rooftops, vehicles or any other desired platform.

Each VS-CM4 transceiver can be configured with different combinations of legacy, modern and international waveforms, with or without modernized crypto options to support US, FVEY, NATO, coalition nations and other international customers.

As the only system of its kind, VS-CM4 easily captures and leverages video, metadata and other ISR information 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 CM4 systems 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-CM4 product is packaged with the PED management software, VideoScout®-Insyte. With sufficient computer performance, this software enables users to capture 20+ simultaneous video feeds displaying metadata on a variety of mapping software, 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.



Use of U.S. DoD visual information does not imply or constitute DoD endorsement.

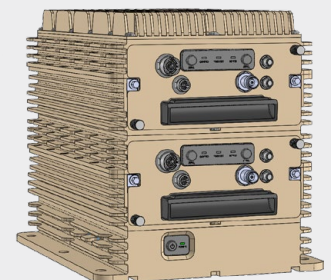
Control, Receive, Transmit, and Process Real-Time Video, Metadata and other ISR information

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 two removable UHF, L, S, Low C, High C, Low Ku and High Ku band secure transceivers with support for legacy and advanced waveforms
- > Includes two remotely mountable UHF, L, S, Low C, High C, Low Ku and High Ku band transceiver antennas



SPARTIN Multi-Band Transceive Antenna



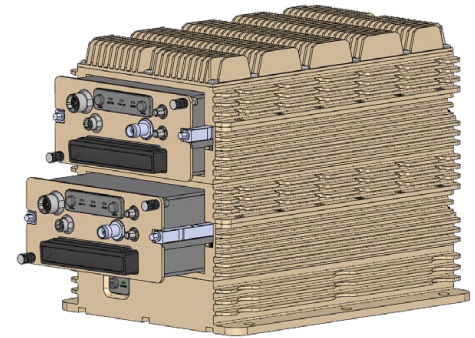
VS-CM4

SWAP SPECIFICATIONS

External Interface	Antenna (x2), Ethernet (x2), Power Input, RS-170A (x2)
Size	8.0" W x 10.5" D x 8.25" H
Weight	< 28 lbs (excluding antennas)
Colors	Gray, Tan, or Green
Power	90–260 VAC, 10–35 VDC, 76 Watts maximum
Video	H.264, H.265, MPEG-2, MPEG-4 Part 2, NTSC, PAL, RTSP

ENVIRONMENTAL SPECIFICATIONS

Altitude (Storage)	MIL-STD-810H, Method 500.6, Proc I, 40,000 feet
Altitude (Operating)	MIL-STD-810H, Method 500.6, Proc II, 15,000 feet
Temperature (Storage)	MIL-STD-810H, Method 501.7, 502.7, Proc I, -46°C to +85°C
Temperature (Operating)	MIL-STD-810H, Method 501.7, 502.7, Proc II, -40°C to +60°C
Rain	MIL-STD-810H, Method 506.6, Proc I
Humidity	MIL-STD-810H, Method 507.6, Proc II
Fungus	MIL-STD-810H, Method 508.8, Annex B
Salt Fog	MIL-STD-810H, Method 509.8, Proc I
Blowing Dust	MIL-STD-810H, Method 510.7, Proc I
Blowing Sand	MIL-STD-810H, Method 510.7, Proc II
Vibration (Operating)	MIL-STD-810H, Method 514.8C-2, Proc I, Cat 4
Vibration (Storage)	MIL-STD-810H, Method 514.8, Proc I, Cat 24
Vibration (Shipboard)	MIL-STD-167-1A, Type 1
Shock (Functional)	MIL-STD-810H, Method 516.8, Proc I, 22g, 11 ms
Shock (Transit Drop)	MIL-STD-810H, Method 516.8, Proc IV
Shock (Shipboard)	MIL-S-901E, Grade A, Class I, Type A
Conducted Emissions	MIL-STD-461G, CE101, CE102
Conducted Susceptibility	MIL-STD-461G, CS101, CS114, CS115, CS116
Electrostatic Discharge	MIL-STD-461G, CS118
Radiated Emissions	MIL-STD-461G, RE102
Radiated Susceptibility	MIL-STD-461G, RS101, RS103
Safety	IAW MIL-STD-882 for system safety



VS-CM4 showing removable trays

TRANSCEIVERS

WAVEFORM		BE-CDL A MODES 1–15 (0.512–44.736 MBPS)	BE-CDL B MODES 101–105 (0.2–44.736 MBPS)	CDL (0.2, 0.4, 2.0F/R, 10.71F/R, 10.71N, 21.42F/R, 44.73F/R MBPS)	FM ANALOG*	INTERNATIONAL (IW) (0.75, 1.5, 3.0, 6.0, 12.0, 24.0, 42.0 MBPS)	TACTICAL (0.466, 1.6, 3.2, 6.4 MBPS)	VNW (0.05– 5 MBPS)
Frequency Band	UHF	Rx/Tx	Rx/Tx	Rx/Tx	Tx	Rx/Tx	Rx/Tx	Rx/Tx
	L	Rx/Tx	Rx/Tx	Rx/Tx	Tx	Rx/Tx	Rx/Tx	Rx/Tx
	S	Rx/Tx	Rx/Tx	Rx/Tx	Tx	Rx/Tx	Rx/Tx	Rx/Tx
	C	Rx/Tx	Rx/Tx	Rx/Tx	Tx	Rx/Tx	Rx/Tx	Rx/Tx
	Ku	Rx/Tx	Rx/Tx	Rx/Tx	Tx	Rx/Tx	Rx/Tx	Rx/Tx
Encryption	AES	X	X	X		X	X	X
	Type 1**	X	X	X			X	X

* Future Option

** Encryption options: NATO Type 1, U.S. Type 1, or none

SUPPORTED BANDS: SPARTIN ANTENNA

FREQUENCY BAND	UHF	L	S	C	KU
Frequency	400–470 MHz	1625–1850 MHz	2025–2500 MHz	4400–5000 MHz 5250–5850 MHz	14.40–14.93 GHz 15.15–15.35 GHz

SUPPORTED BANDS: AUXILIARY ANTENNAS

FREQUENCY BAND	UHF	L	S	C	KU
Frequency	225–515 MHz	950–1999 MHz	2000–2500 MHz	4400–4990 MHz 5250–5850 MHz	14.40–14.83 GHz 15.15–15.35 GHz

VideoScout-CM4 (PN: 750-7300-00X)

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