

VIDEOSCOUT®-MC3

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

The VideoScout-Mobile Communications, 3rd Generation (VS-MC3) is an environmentally protected, portable, remote video exploitation and management system. The VS-MC3 alleviates the need for additional equipment when mobility is required and size, weight and space limitations are critical.

PRODUCT DESCRIPTION

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 VS-MC3 expands the VideoScout family of systems providing users with an environmentally protected, portable, remote video exploitation and management system alleviating the need for additional equipment when mobility is required and size, weight and space limitations are critical. The VS-MC3 includes a secure 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).

The VS-MC3 is the only system of its kind, easily capturing and leveraging video and metadata from Unmanned Aerial Systems (UAS), targeting pods, intelligence feeds and other common sensors as well as video from co-located perimeter security cameras. VS-MC3 is available as a standards based, inter-operable laptop system, supporting a variety of 3rd party applications and can be used by field personnel as a portable Remote Video Exploitation Terminal (RVET).

The VS-MC3 product is packaged with VideoScout PED management software. It 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 facilitating easy integration into existing C4ISR systems and intelligence networks. The VS-MC3's ability to easily exploit, manage and disseminate data from multiple sources aids 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 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-MC3 or via an Ethernet connection to Google Earth™ imagery.



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Control, Receive and Process Real-Time Video and Metadata

KEY FEATURES

- > Portable, remote system
- > Real-time analog and digital full-motion video
- > Faster analysis, planning and improved situational awareness for frontline warfighters
- > Includes a secure UHF, L, S, C-Low, C-High, Ku-Low and Ku-High band transceiver

SPECIFICATIONS

LAPTOP

- > CPU: Intel® Core™ i7-3520M processor, 2.90 GHz
- > Memory: 8 GB DDR3
- > Removable SSD: 480 GB solid state drive
- > Display: 12.1" TFT LCD WXGA (1280 x 800), 1200 nits, sunlight readable display with multi-touch screen
- > Keyboard: Waterproof LED back-lit membrane keyboard, touch pad
- > Ethernet: 10/100/1000 Base-T
- > PCMCIA card: PCMCIA Type II x 1 ExpressCard 54/34
- > USB: USB 3.0 ports (x2), USB 2.0 port
- > Battery power: Rechargeable Lithium Ion (x2)
- > External power: AC/DC adapter, 5590 battery cable, DC/DC HUMVEE adapter 11-32 VDC
- > Size: 14.5" W x 9" D x 7" H
- > Weight: < 15 lb. (excluding antenna)
- > Color: Black
- > Power: 100-240 VAC, 12-32 VDC, 183 Watts maximum
- > External interface: AES key fill (DS-101), antenna, ethernet, power input, RS-170
- > Video: H.264, H.265, MPEG-2, MPEG-4 Part 2, NTSC, PAL, RTSP

ENVIRONMENTAL

- > Altitude (storage): MIL-STD-810G, Method 500.5, Proc I, 40,000 ft
- > Altitude (operating): MIL-STD-810G, Method 500.5, Proc II, 15,000 ft
- > Temperature (storage): MIL-STD-810G, Method 501.5, 502.5, Proc I, -40°C to +70°C
- > Temperature (operating): MIL-STD-810G, Method 501.5, 502.5, Proc II, 0°C to +55°C
- > Temperature shock: MIL-STD-810G, Method 503.5, Proc 1-C, -40°C to +70°C
- > Rain: IP65
- > Humidity: MIL-STD-810G, Method 507.5, Proc II
- > Fungus: MIL-STD-810G, Method 508.6, Annex B
- > Dust: IP65
- > Vibration (operating): MIL-STD-810G, Method 514.6, Proc I, Cat 4
- > Shock (functional): MIL-STD-810G, Method 516.6, Proc I, 20g, 11 ms
- > Shock (transit drop): MIL-STD-810G, Method 516.6, Proc IV
- > Conducted emissions: MIL-STD-461F, CE101, CE102
- > Conducted susceptibility: MIL-STD-461F, CS101, CS114, CS115, CS116
- > Radiated emissions: MIL-STD-461F, RE101, RE102
- > Radiated susceptibility: MIL-STD-461F, RS101, RS103
- > Electrostatic discharge: ANSI/IEEE C63.16
- > Safety: IAW MIL-882 for system safety

TRANSCIVER

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 400 to 470 MHz	Rx	Rx/Tx	Rx/Tx	Rx/Tx		Rx
	L-Band 1.625 to 1.85 GHz	Rx	Rx/Tx	Rx/Tx	Rx/Tx	Rx	Rx
	S-Band 2.025 to 2.50 GHz	Rx	Rx/Tx	Rx/Tx	Rx/Tx	Rx	Rx
	C-Band 4.40 to 5.0 GHz 5.25 to 5.85 GHz	Rx	Rx/Tx	Rx/Tx	Rx/Tx	Rx	Rx
	Ku-Band 14.40 to 14.93 GHz 15.15 to 15.35 GHz	Rx	Rx/Tx	Rx/Tx	Rx/Tx	Rx	Rx
	Encryption: AES, Type 1		X	X	X	X	X

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