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VIDEOSCOUT®-CM3

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

The VideoScout-CM3 is an environmentally protected, semi-portable, remote video exploitation and management system designed for ground and maritime operations that provides the ability to control, receive, and process real-time video and metadata from ground and airborne surveillance platforms via a remotely mountable seven band antenna.

Control, Receive, and Process Real-Time Video and Metadata

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

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 VideoScout-Communications Module, 3rd Generation further expands the VideoScout family of systems by providing users with an environmentally protected, semi-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 VideoScout-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 VideoScout-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 VideoScout-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 VideoScout-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. This is achieved by 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 geological smart video by synchronizing metadata with video by using applications such as FalconView® maps or Google Earth™ from within VideoScout-CM3 or via an Ethernet connection to Google Earth imagery.

SPECIFICATIONS

> External interfaces:	AES key fill (DS-101), antenna (x2), Ethernet (x2), Power Input, RS-170A (x2)	> Humidity:	MIL-STD-810G, Method 507.5, Proc II
> Size:	8" (w) x 10.5" (d) x 8.25" (h)	> Fungus:	MIL-STD-810G, Method 508.6, Annex B
> Weight:	<28 lbs (excluding antennas)	> Dust:	MIL-STD-810G, Method 510.5, Proc I
> Colors:	Gray, tan, or green	> Vibration (operating):	MIL-STD-810G, Method 514.6, Proc I, Cat 4
> Power:	85-265 VAC, 9-36 VDC, 95 Watts maximum	> Vibration (storage):	MIL-STD-810G, Method 514.6, Proc I, Cat 24
> Video:	H.264, H.265, MPEG-2, MPEG-4 Part 2, NTSC, PAL, RTSP	> Vibration (shipboard):	MIL-STD-165-1A, Type 1

BANDS

> UHF:	400 to 470 MHz[2]	> Shock (functional):	MIL-STD-810G, Method 516.6, Proc I, 40g, 11 ms
> L-Band:	1.65 to 1.85 GHz[1,2]	> Shock (transit drop):	MIL-STD-810G, Method 516.6, Proc IV
> S-Band:	2.20 to 2.5 GHz[1], 2.025 to 2.50 GHz[2]	> Shock (shipboard):	MIL-S-901E, Grade A, Class I, Type A
> C-Band:	4.40 to 5.0 GHz[1,2], 5.25 to 5.85 GHz[1,2]	> Conducted emissions:	MIL-STD-461G, CE101, CE102
> Ku-Band:	14.40 to 14.93 GHz[2], 15.15 to 15.35 GHz[2]	> Conducted susceptibility:	MIL-STD-461G, CS101, CS114, CS115, CS116

ENVIRONMENTAL

> Altitude (storage):	MIL-STD-810G, Method 500.5, Proc I, 40,000 ft	> Radiated emissions:	MIL-STD-461G, RE101, RE102
		> Radiated susceptibility:	MIL-STD-461G, RS103
> Altitude (operating):	MIL-STD-810G, Method 500.5, Proc II, 15,000 ft	> Electrostatic discharge:	MIL-STD-461G, CS118
> Temperature (storage):	MIL-STD-810G, Method 501.5, 502.5, Proc I, -46C to +85C	> Safety:	IAW MIL-882 for system safety
> Temperature (operating):	MIL-STD-810G, Method 501.5, 502.5, Proc II, -40C to +65C		
> Temperature shock:	MIL-STD-810G, Method 503.5, Proc 1-C, -46C to +85C		
> Rain:	MIL-STD-810G, Method 506.5, Proc I		

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	AES

TRANSCEIVER

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	AES, Type 1	AES, Type 1	AES	AES

1. Receiver
2. Transceiver

VideoScout-CM3 (PN: 575-72X5-002)

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