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VIDEOSCOUT®-SINGLE RADIO

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

The VideoScout-Single Radio is an environmentally protected, semi-portable, remote video exploitation management system designed for ground and maritime operations. VideoScout-Single Radio excels at providing 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.

PRODUCT DESCRIPTION

VideoScout is a family of video processing, exploitation, dissemination (PED) management systems designed to capture, display, exploit, disseminate, and manage critical video intelligence from a variety of manned and unmanned sensors. The VideoScout-Single Radio further expands the VideoScout family of systems by providing users with an environmentally protected semi-portable, remote video exploitation management system designated for ground and maritime operations that can be mounted atop ship masts, surveillance towers, rooftops, vehicles, or any other desired platform. The VideoScout-Single Radio 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).

As the only system of its kind, VideoScout-Single Radio easily captures and leverages 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. Users can deploy multiple VideoScout-Single Radios 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-Single Radio 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 geo-location smart video by synchronizing metadata and video, by using applications such as FalconView® maps or Google Earth™ from within VideoScout-Single Radio or via an Ethernet connection to Google Earth™ imagery.

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 UHF, L, S, C-Low, C-High, Ku-Low, and Ku-High band transceiver

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SPECIFICATIONS

PHYSICAL

> External interface: AES key fill (DS-101), antenna, Ethernet, power input, RS-170A

> Size: 8" (w) x 10.5" (d) x 6.15" (h)

> Weight: < 20 lbs (excluding antenna)

> Colors: Gray, tan, or green

PERFORMANCE

Bands

> UHF: 400 to 470 MHz

> L-Band: 1.625 to 1.85 GHz

> S-Band: 2.025 to 2.50 GHz

> C-Band: 4.40 to 5.0 GHz, 5.25 to 5.85 GHz

> Ku-Band: 14.40 to 14.93 GHz, 15.15 to 15.35 GHz

> Power: 85-265 VAC, 9-36 VDC, 95 Watts maximum

> 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 feet

> Altitude (operating): MIL-STD-810G, Method 500.5, Proc II, 15,000 feet

> Temperature (storage): MIL-STD-810G, Method 501.5, 502.5, Proc I, -46°C to +85°C

> Temperature (operating): MIL-STD-810G, Method 501.5, 502.5, Proc II, -40°C to +65°C

> Temperature shock: MIL-STD-810G, Method 503.5, Proc 1-C, -46°C to +85°C

> Rain: MIL-STD-810G, Method 506.5, Proc I

> Humidity: MIL-STD-810G, Method 507.5, Proc II

> Fungus: MIL-STD-810G, Method 508.6, Annex B

> Dust: MIL-STD-810G, Method 510.5, Proc I

> Vibration (operating): MIL-STD-810G, Method 514.6, Proc I, Cat 4

> Vibration (storage): MIL-STD-810G, Method 514.6, Proc I, Cat 24

> Vibration (shipboard): MIL-STD-167-1A, Type 1

> Shock (functional): MIL-STD-810G, Method 516.6, Proc I, 40g, 11 ms

> Shock (transit drop): MIL-STD-810G, Method 516.6, 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

> Radiated emissions: MIL-STD-461G, RE101, RE102

> Radiated susceptibility: MIL-STD-461G, RS103

> Electrostatic discharge: MIL-STD-461G, CS118

> Safety: IAW MIL-882 for system safety

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	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

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