communications

Advanced Products & Design

VideoScout with Integrated ROVER Receiver

Technical Specifications

VideoScout® with an integrated eROVER Receiver couples L-3's portable, rugged and ready-to-use real-time video receiver with a powerful exploitation and management system. VideoScout seamlessly uses the eROVER's L-, C- and Ku-band receiver to capture video from manned and Unmanned Aerial Systems (UAS), such as the Predator, Shadow, Dragon Eye, LITENING Pod, and other joint coalition assets. Rather than simply view video as it is received, VideoScout provides users with a single system solution to capture video, leverage archived video for pre-mission planning, exploit video during operations, and easily create Intel products for after-action reports and post mission analysis.

The VideoScout package with the eROVER option includes all video exploitation and management software, rugged laptop computer and Rover receiver, antennas, and cables.

Key Features of VideoScout with eROVER Option

- **Operating System Support**
  - Windows XP
  - Windows 2000
- **Analog to digital (MPEG-2)**
- **View live or pre-recorded video**
- **DVR capabilities with 90 minute buffer, including play, pause, rewind and fast forward live and captured video**
- **Capture and display sensor generated metadata**
- **Enhanced video processing including low-light illumination, and contrast and brightness control**
- **Pan and zoom video**
- **User entered annotations**
- **Search sensor generated metadata or user entered annotations by file names, date/time, location and text**
- **Create shorter video segments and snapshots (JPEG)**
- **Stream live video to other users**
- **Disseminate videos, segments and snapshots over low bandwidths**
- **Pre-mission configuration**
- **Automatic frequency acquisition**
- **User position via included GPS**

Waveform Support

Multi-band reception

- **Ku-band**
  - Frequency Range: 14.1 GHz to 15.35 GHz, 5 MHz steps
  - NAV data: Aircraft Position
- **C-band (A)**
  - Frequency Range: 4.40 GHz to 5.85 GHz, 1.0 MHz steps
  - Analog FM: NTSC/RS-170 Video
  - NAV data: None standard, platform dependent
- **C-band (B)**
  - Frequency Range: 5.25 GHz to 5.85 GHz, 1.0 MHz steps
  - FSK: H.261 Video (Video conferencing video)
  - NAV data: Aircraft position and target position
- **L-band**
  - Frequency Range: 1710 MHz to 1840 MHz,0.5 MHz steps
  - Analog FM: NTSC/RS-170 Video
  - NAV data: None standard, platform dependent

Antennas

Included antennas

- **Ku-band Omni**
  - Gain: 3.5 dBi
- **C/L-band Omni (standard)**
  - Gain: 0 dBi at L-band
  - Gain: 4.5 dBi at C-band
- **GPS antenna**
- **LNAs: Supplied with antennas powered via RF cable**

Interfaces

- **10/100 BaseT**
- **Receiver Interfaces**
  - Coaxial TNC RF connector to antenna
  - RS-485 (directional antenna controller)
  - NEMA-0183
  - RS-170
  - BA-5590 connector
  - COMSEC fill connector
  - Front Panel Control
    - Four button
    - Eight digit display
- **Computer Interfaces**
  - 56k modem
  - Ethernet
  - Touch Screen
  - Waterproof keyboard
  - BA-5590 connector (option)
  - I/O
    - S-Video, NTSC, PAL, RS-170, RS-232
    - RGB, TV Out, Audio

Power Features

- **DC – DC adapter (cigarette lighter)**
- **Supports BA-5590 batteries (not included)**
- **Receiver**
  - AC adapter
- **Computer**
  - Li-Ion Primary Smart battery
  - DC – DC adapter (cigarette lighter)

Physical Characteristics

eROVER Receiver	
Size	3.8” x 5.5” x 15.5” (with battery)
Weight	< 8 lbs (excluding antennas, displays, battery, etc.)
Immersion	3 feet of water
Shock, operating	9g, 11msec, half sine
Altitude, operating	> 15,000 feet
Temperature, operating	-20°C to +70°C
Total Equipment Weight	Approximately 37 – 41 lbs
VideoScout 130	
Size	VideoScout 130: 10.8” x 9.4” x 2.9”
Weight	VideoScout 130: 9.5 lbs
Environmental Standard	MIL-STD-810F laptop; excluding base

The VideoScout 130 is developed and sold by L-3 Communications Advanced Products & Design. The eROVER is also available separately from L-3 Communications Systems West.

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