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VideoScout-MC

Technical Specifications

VideoScout® -MC is a mobile video exploitation and management system with an integrated receiver designed to easily capture and leverage real-time video and metadata from manned or unmanned surveillance and reconnaissance assets. The VideoScout-MC is a self-contained, portable laptop capable of receiving video and metadata directly from L, S or C band-based Intelligence, Surveillance and Reconnaissance (ISR) Systems. VideoScout-MC allows users to view incoming video, as well as archive, annotate, geo-reference and disseminate relevant, actionable video to others across the battle space.

Easily accessible from within VideoScout-MC, warfighters can synchronize metadata and video with FalconView® maps to create geo-location smart video. Video and metadata can be paused, zoomed, annotated and recorded in real-time to improve situational awareness. Video and metadata are also stored and indexed automatically for subsequent search and retrieval.

By highlighting a specific area on a map, VideoScout allows mobile and forward personnel to quickly identify locations of interest and automatically find and display all instances of video for the requested locations. Corresponding lat/long, date/time, and annotations are also displayed, providing convenient geo-referenced video and map information in a single screen format.

VideoScout's flexibility, portability and interoperability accommodate other 3rd party applications, providing field personnel with the ability to use VideoScout as a Remote Video Exploitation Terminal (RVeT).

VideoScout-MC includes complete video exploitation and management software in a rugged, mobile laptop computer integrated with an L/S or L/C band receiver, antenna and cables.

Remote Video Exploitation for Users on the move





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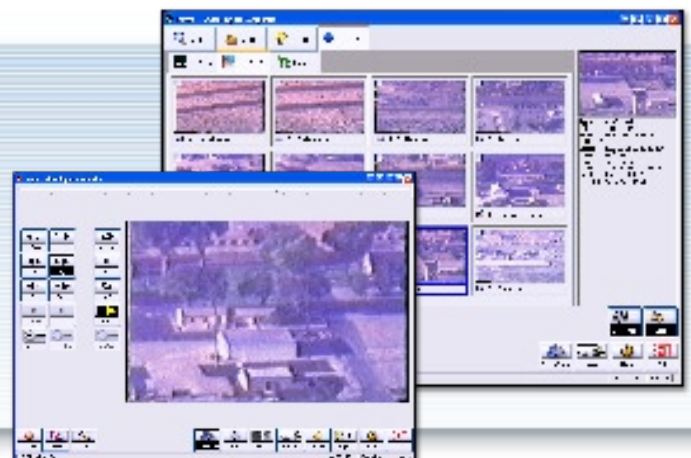
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Software Features

- **Receive** L/S or L/C band waveforms while on-the-move.
- **Capture** video and metadata (location, date/time, other flight data, etc.) and interface to FalconView or other mapping software in real-time.
- **Display** live incoming video and metadata or play back archived video and metadata. A convenient night mode option allows users to display video while operating in light-sensitive areas.
- **Pause, rewind and fast forward** (DVR capabilities) on live or previously recorded video to improve analysis in slow, normal or fast speed.
- **Enhance the video** by normalizing the light/dark content of video and images in live mode.
- **Create snapshots** of selected “frames of interest” in live mode or after the video has been captured.
- **Annotate** an entire video file, segment or snapshot with insightful notes.
- **Zoom** in on selected areas within an image or on motion video. Scrolling capabilities allow users to move across video while remaining in zoom mode.
- **Create shorter derivative video** (MPEG-2) by simply marking the start and stop points, then create a new, high value video segment for storage and transmission.
- **Search, retrieve and play** segments, snapshots and video by searching on file name, user-entered annotation or metadata, such as location. Video can then be played from the exact point you want.

Top: VideoScout Library View
Left: Live VideoScout Capture



- **Compound Search** on MGRS, lat/long, date/time, annotation, text, or any combination of these to quickly retrieve video, clips or snapshots for quick viewing, analysis and dissemination.
- **Storyboard** layout of snapshots, segments and video files for a more intuitive way to view data and manage video assets.
- **Schedule** automatic encoding of incoming video at designated “start and stop” times.
- **Transmit** entire captured video, segments and snapshots along with annotations across any computer network.
- **Store video**, snapshots and segments on network accessible drives and CDs or DVDs for alternative transport and storage.
- **Stream video** for automatic transmission in real-time. Frame rates, bit rates and resolutions are user selectable to allow for efficient low-bandwidth transmission.
- **Customize** the user interface to suit specific preferences and display set-ups. Simply select, drag and drop parts of an application and lay them out in a way that works best for you.
- **Operating System Support**
Microsoft Windows® XP

Compatibility with ROVER

VideoScout-MC extends the capabilities of mobile units equipped with L-3's eROVER Ku, L and C band receiver, providing powerful exploitation functionality to manage video while on the move. When required, VideoScout-MC can be used with, and easily detached from the eROVER for “over the hill” INTEL operations, providing forward personnel on foot with the ability to receive, exploit, manage and store video and metadata captured directly from tactical L, S and C-band SUAS (Small Unmanned Aerial Systems). Upon return, VideoScout-MC's interoperability allows personnel to hook back up to a mobile unit's eROVER for subsequent review and transmission of video and metadata to others in the field.

VideoScout-MC's seamless integration with eROVER and instant portability helps dismounted personnel better leverage both UAV, manned ISR and tactical SUAS video intelligence forward and back, improving real-time planning and decision-making for field INTEL operations.



VideoScout 130 Computer Specifications

Operating System	Windows XP PRO	
Laptop	CPU	Intel Pentium M Processor 1.6 GHz
	Memory	1 GB
	HDD	Removable 60 GB
	Display	12.1" Touch Screen, Hi Contrast Screen
	Keyboard	Waterproof keyboard, touch pad
	PCMCIA Card	1 Type II
	Battery	Li-Ion Primary Smart battery for 3.5 hours. Spare battery and battery charger with cigarette lighter power adapter
	Communication	10/100 Base-T LAN; 56K modem
	Dimensions	10.8" x 9.4" x 2.9"
	Weight	9.5 lbs
	Environmental Standard	Computer case certified to MIL-STD-810F
Video/Image Processing	Video Capture I/O	S-Video, NTSC, PAL, RS170, RS232, RGB(SVGA), TV Out; Ethernet; Audio
	Compression/Decompression	MPEG-2

Receiver Technical Specifications

	L and S Band Video Receiver	L and C Band Video Receiver
Frequency	L: 1710 MHz to 1850 MHz; S: 220 MHz to 2500 MHz; Two Data Subcarriers, with a choice of frequency ranging from 5.8 to 8.5 MHz.	L: 1710 MHz to 1850 MHz; C: 4400 MHz to 5000 MHz; Two Data Subcarriers, with a choice of frequency ranging from 5.8 to 8.5 MHz.
Frequency response	DC to 10kHz +/-1.5dB. (AC coupled and up to 2 audio subcarriers also available) Alternate side-band frequencies and data coupling formats are supported. Contact L-3 AP&D for details and specifications.	
Antennas	Portable and magnetic vehicle-mount antennas and SMC cables are included.	

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