



V-TRAC™
Motion Imagery Analysis

THE MOTION IMAGERY TOOLSET FOR INTELLIGENCE ANALYSIS



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TEXTRON Systems



A SOLUTION CUSTOMIZED FOR INTELLIGENCE ANALYSTS

The V-TRAC™ extension for RemoteView™ and ELT/Series™ geospatial analysis software enables analysts to exploit the valuable motion imagery intelligence collected through Unmanned Aircraft Systems (UAS). V-TRAC is ideal for individuals reviewing Motion Imagery (MI) for the purposes of military surveillance, coastal patrol, border monitoring, and law enforcement operations. The software has been specifically optimized to improve surveillance and reconnaissance intelligence operations.

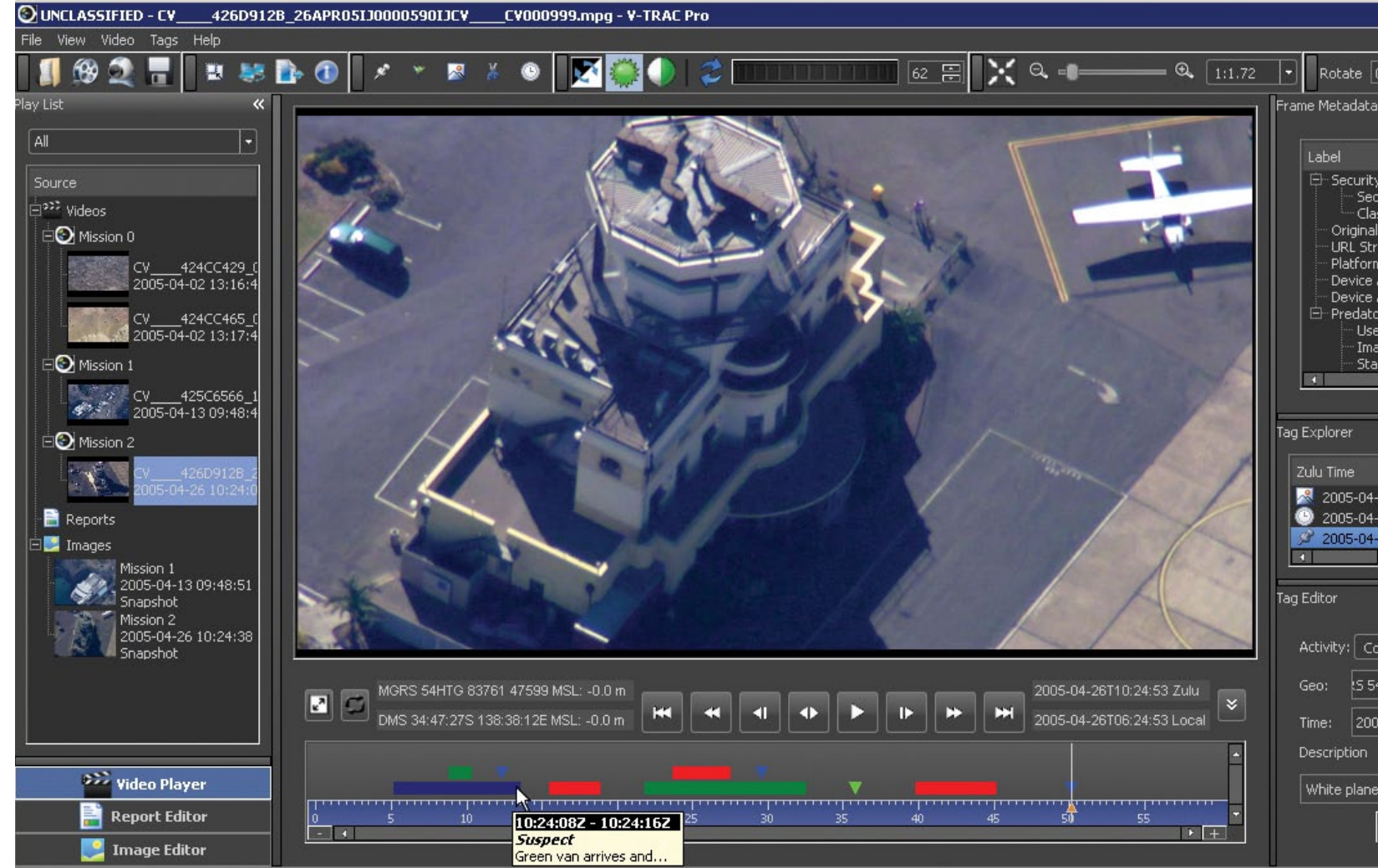
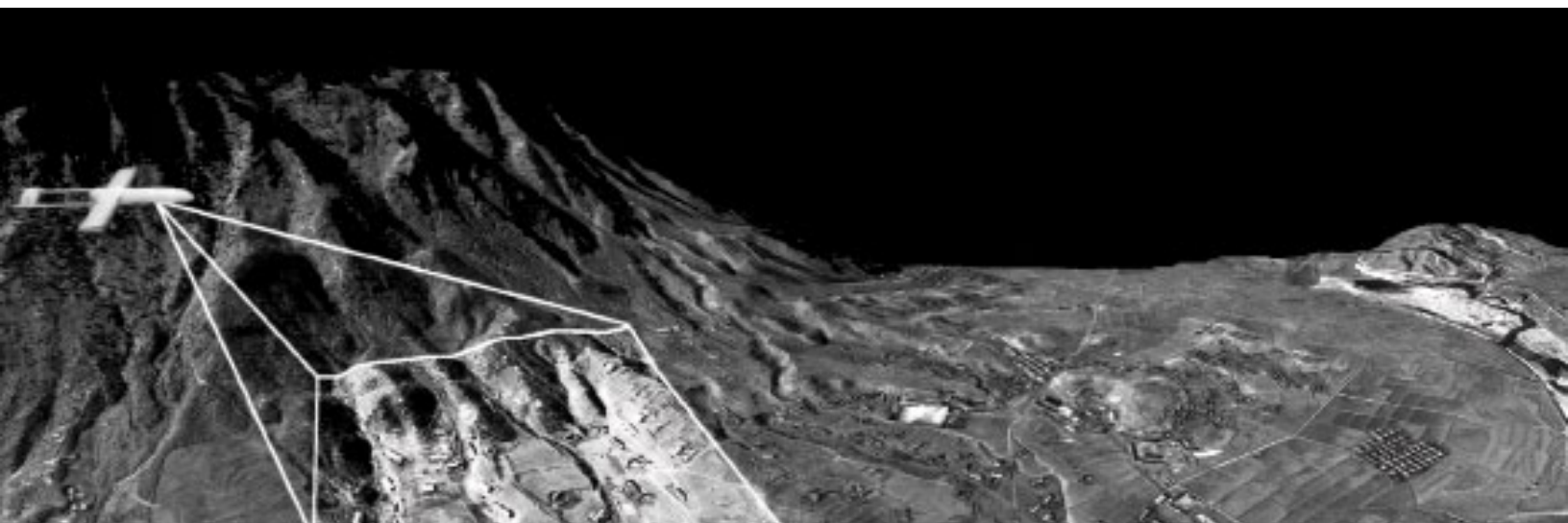
No need to juggle several software packages, rely upon a generic multimedia player, or purchase expensive video editing hardware systems. V-TRAC is easy to learn and brings video analysis capability to the laptop computer. Capture, review, exploit, and disseminate video intelligence from one easy-to-use interface. V-TRAC automatically interfaces with the RemoteView and ELT/Series software for in-depth motion imagery analysis.

BASIC VS. PRO VERSIONS

The V-TRAC extension is available in two versions: Basic and Pro.

The V-TRAC Basic extension is available at no additional cost for analysts who use RemoteView Pro or ELT/5500® software. V-TRAC Basic primarily enables review and tagging of archived video files through the user-friendly Video Player.

The V-TRAC Pro extension is a complete motion imagery exploitation tool designed to provide analysts with the ability to capture and save live video streams, review the streams, annotate frames of interest, and then quickly generate automated reports. As a result, V-TRAC Pro is useful for motion imagery exploitation across all phases of analysis. The integrated Player, Report Editor, and Image Editor tools automate and speed report creation.



PLAYER



ANALYZE VIDEO

Use GeoCatalog™ to search for motion imagery files and open as mission sets, with sequential videos automatically linked within the Player. Review the files while simultaneously tracking the flight path and footprint over a RemoteView™ or ELT/Series image. Add tags and notes using the Player's interactive timeline. The intuitive controls allow the analyst to play, forward, reverse, pause, and single step. Adjust display attributes to enhance detail.

IMAGE EDITOR



EXPLOIT IMAGES

Once items of interest are located and tagged, extract portions of motion imagery or single frames for analysis and inclusion in a report. Use the built-in Image Editor in V-TRAC Pro to manipulate and annotate frames with an assortment of graphics and text editing tools. Export frames as NITF snapshots complete with geo-referenced data and all associated metadata to RemoteView or ELT/Series for further exploitation.

REPORT EDITOR



GENERATE REPORTS

Use the built-in Report Editor in V-TRAC Pro to create a multi-page report using templates. Drag-and-drop annotated images into the report slides. The templates automatically populate with image metadata. Add and edit slide text as needed. Publish reports as PowerPoint® or PDF files for easy distribution. Customize your own templates to speed future work.

V-TRAC FEATURES

	BASIC	PRO
View live streaming and archived motion imagery	●	○
Navigate archived motion imagery using forward, reverse, pause, and single step	●	○
Adjust display brightness, contrast, zoom, pan, and rotation	●	○
Exploit archived motion imagery files with custom tagging on interactive timeline	●	○
Display metadata from live streaming or archived motion imagery	●	○
Ingest and query motion imagery data using RemoteView™ GeoCatalog™ software	●	○
Display footprint or flight path of motion imagery in RemoteView and 3D Pro™	●	○
Export NITF, JPG, BMP, GeoTIFF, and JPEG2000 snapshots	●	○
Extract sub-clips from motion video files	●	○
Capture one or two live streams		○
Navigate live motion video streams using forward, reverse, pause, and single step		○
Exploit live motion imagery streams with custom tagging and annotation tools		○
Display a frame's ground coverage and sensor view in Google Earth®		○
Annotate snapshots using the integrated Image Editor		○
Easily generate reports using the integrated Report Editor		○
Automatically populate report templates with metadata		○
Export reports to PowerPoint®, PDF, template, or image		○

DOD AND INTELLIGENCE COMMUNITY STANDARDS SUPPORTED

- ISO/IEC 13818-1:2007 Information technology – generic coding of moving pictures and associated audio information: Systems (MPEG-2 Transport Stream)
- ISO/IEC 13818-2 Information technology – generic coding of moving pictures and associated audio information: Video (MPEG-2)
- ISO/IEC 14496-10 Information technology – coding of audio-visual objects – Part 10: Advanced video coding (H.264)
- MIL-STD-2500C V2.1, National Imagery Transmission Format Standard, 01 May 2006
- SMPTE 336M-2007, Data Encoding Protocol Using Key-Length-Value
- MISB EG 0104.5, Predator UAV Basic Universal Metadata Set, 14 December 2006
- MISB 0102.6 Security Metadata Universal and Local Sets, 14 May 2009.
- MISB EG0601.4 UAS Datalink Local Metadata Set, 4 March 2010.

ITAR STATEMENT

V-TRAC Basic and Pro software is not included in the international version of RemoteView Pro. This software is controlled on the USML, its export or re-export is subject to the U.S. International Traffic in Arms Regulations (22 CFR 120-130), and it requires a license issued by the U.S. Department of State.

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