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ENVI® NITF MODULE

Industry-leading support to read, display, explore and process NITF and MIE4NITF data

NITF (National Imagery Transmission Format) is the preferred data standard for the US Department of Defense (DoD) and the Intelligence Community (IC). NITF combines imagery, vectors and metadata into a single file to maximize speed and utility.

The ENVI NITF module is used to process, exploit and disseminate NITF data in a timely and accurate manner. The module is integrated with ENVI, the industry standard image processing and analysis software, for a seamless imagery experience. The module's API makes it easy for users to automate and customize their workflows.

MIE4NITF SUPPORT AND RAPID VISUALIZATION

The Motion Imagery Extension for NITF (MIE4NITF) standard was developed to combine the rich metadata support in NITF images with time-series information provided by Wide Area Motion Imagery (WAMI) and Full Motion Video (FMV) systems. With integrated support for the latest MIE4NITF data files, the ENVI NITF module empowers users to go beyond simply "viewing" the contents of the file.

The ENVI NITF module includes the Xtreme Viewer, which allows users to view MIE4NITF data as it was collected, enabling more informed tactical decisions. The Xtreme viewer allows users to view data up to 30 frames per second (FPS) with video player-like controls and allows users to pan, zoom and adjust contrast of the display.

With the ENVI NITF module, this 1,000 frame MIE4NITF dataset is being played back at 30 frames per second.

BENEFITS

> Actively explore complex data sets and choose which information layers to visualize

> Quickly apply analytics to your NITF and MIE4NITF data to generate additional insights

> Customize and automate your workflows using an intuitive API

> Visualize MIE4NITF data with the fidelity of a still image and the performance of a video

VIEW, PROCESS AND EXPLOIT NITF AND MIE4NITF FILES

Since the ENVI NITF Module is integrated with ENVI you get the added benefit of image analysis tools and full NITF and MIE4NITF support in one package.
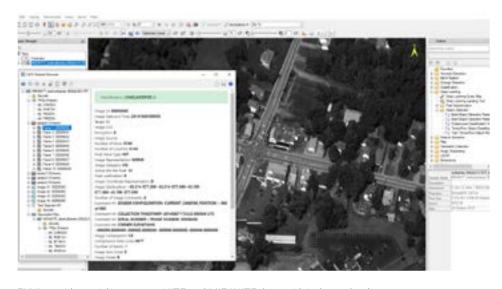
The ENVI NITF Module includes the features needed to read, edit and deliver NITF files, including:

> A dedicated browser for viewing the contents of multiple NITF and MIE4NITF files and metadata

> Fast performance for viewing MIE4NITF camera series

> File compression: NITF Preferred JPEG 2000 Encoding (NPJE) and Exploitation Preferred JPEG2000 Encoding (EPJE) for reading, writing and disseminating compressed data files

> Seamless conversion between NITF 2.0 and NITF 2.1 and NSIF 1.0 formats

> API routines to programmatically interact with NITF and MIE4NITF files

> Reading and writing the government standard for data from commercial satellites, NITF Commercial Datasets Requirements Document (NCDRD) and Secondary Image Format (NSIF) files

> Reading, parsing and processing Spectral NITF Implementation Profile (SNIP) files

> Extensive support for classified, unclassified and user-defined TREs

> Automatic data georeferencing using DIGEST TREs, Rapid Positioning (RPC00A and RPC00B) TREs, Replacement Sensor Model (RSM) and Community Sensor Model (CSM) plugins. RSM and CSM support require the ENVI Department of Defense (DoD) Plugin.

INTEGRATE SEAMLESSLY WITH YOUR WORKFLOW

Access, read, write, process and share imagery in the NITF format. The module seamlessly integrates with your current imagery workflow and allows you to customize your read/write interface and behavior to your needs.

ENVI provides quick access to NITF and MIE4NITF data, with industry-leading reading, writing and processing support for exploring large files.

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385 Interlocken Crescent, Ste 300
Broomfield, CO 80021
t 303 786 9900
GeospatialInfo@NV5.com