

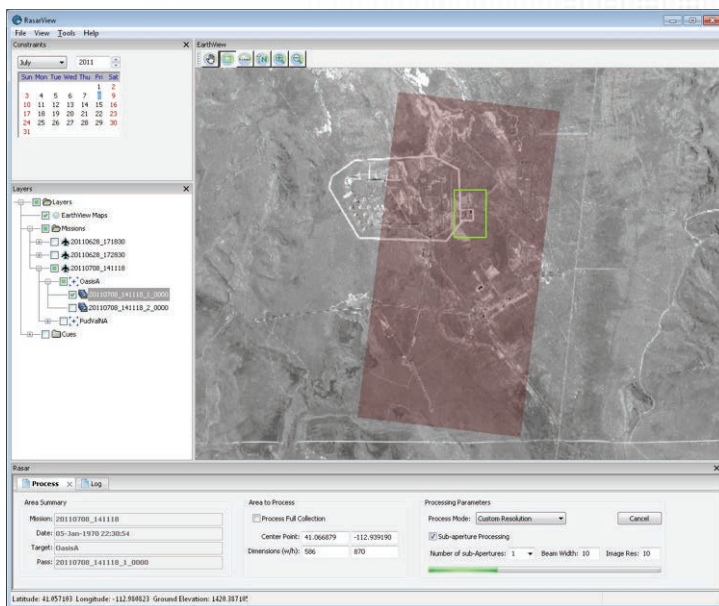
SPACE DYNAMICS LABORATORY

RASARVIEW

POWERFUL PROCESSING & DISPLAY SOFTWARE

Developed by the Space Dynamics Laboratory (SDL), RASARView is a processing and visualization screener built on SDL's EarthView screener framework. RASARView is designed for image analysts in their mission to collect and process data from a variety of sensors (radar, EO, IR, FMV, SIGINT, etc). Due to its powerful processing and fast display capabilities, the RASARView screener is a valuable tool for operations such as persistent surveillance. RASARView is highly intuitive to use and provides mission progress feedback in real time, enabling analysts to detect hazards in the field more effectively.

RASARView overlays geo-located imagery (EO, IR, SAR, video) on a globe, providing the analyst with valuable insight into the origin and destination of targets of interest. The screener displays cues, detections, and points of interest, both user- and auto-generated. Using algorithms developed in cooperation with the Navy, the software can also track multiple moving objects within the scene and display those tracks. In addition, analysts can post process SAR data to generate new images using a variety of processing algorithms.



Users can select a targeted area of the SAR collection and perform a more detailed post-processing algorithm

FEATURES

HIGH RESOLUTION, 3-D EARTH MODEL DISPLAY

- "Layers Tree" to show/hide/manipulate individual images or collections of images as layers on the globe
- Displays mission & status information
- Shows footprints for each synthetic aperture radar (SAR) collection
- Enables users to select regions to process within each footprint
- Flexible navigational controls (pan, tilt & zoom on a 3D globe)
- View maps, aircraft position (including elevation), beam footprint, etc. for situational awareness
- Real-time insight into radar data processing progress
- Measuring tool enables users to measure distances between points

REAL-TIME GEO-RECTIFICATION & CORRELATION OF IMAGERY

- Dynamic caching enables scaling up to any size focal plane array or to wide fields of view while keeping up with full data rates
- Seamless resolution set loading while zooming

SIMULTANEOUS MULTI-SENSOR, MULTI-INT SUPPORT

- Ability to receive data directly from surveillance sensors, compress it, store it locally & send it down an attached data link if present
- EO/IR, HSI, SAR, WAMI & FMV currently supported

EASE OF USE COUPLED WITH EXTENSIBLE FEATURES

- User-friendly, one-window display with dockable panels
- Ability to perform post-processing of raw SAR data from database
- Easy-to-use, customizable processing parameters, including options for advanced post-processing controls

RASARVIEW GROUNDSTATION

- Integrated into the Navy Sensor Management System (SMS)
- Ingests, processes & displays live RASAR missions in real time—can also ingest SAR data after a mission is completed
- Drapes image data over a WGS-84 globe with elevation
- Provides situational awareness with an all-in-one, intuitive interface
- Interactive sensors support:
 - RASAR data processing & display
 - AIS/SIGINT cue display
 - EO/IR video & still display
 - On-demand sensor tasking
- Shares server/database with SDL's VANTAGE™ software on DCGS systems
 - Can be used to expose RASAR data to the DCGS Integrated Backbone (DIB)
- Ability to integrate automatic tracking & detection algorithms