

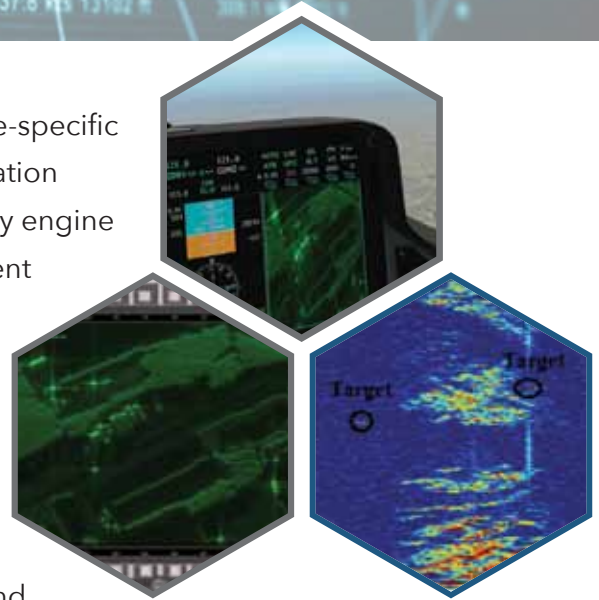


RFview® for Modeling & Sim

The most advanced commercially available site-specific radio frequency (RF) phenomenology analysis tools that provide an accurate characterization of complex real-world RF environments

RFView® MODSIM is an advanced client and/or cloud-based site-specific radio frequency simulation and analysis environment. The simulation environment is built on ISL's industry-leading RF phenomenology engine that has successfully supported numerous advanced development projects for DARPA, Army, Navy, Air Force and other private customers since 1989.

RFView® CLOUD allows users to enter the simulation parameters in a web interface and then submit a job which is run remotely on a high-performance computer cluster to ensure timely simulation results. Thus, no special computing software and hardware is required. When the simulation is completed, the user receives an email notification and can view the data on the RFView® website. The data is also available for download in both Matlab binary format as well as KML format for easy display and analysis using Google Earth.



For more information on this product, please contact *Peter Skangos*

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Features and Benefits

- Vetted at VHF through X-band
- Fully polarimetric
- Multichannel/MIMO/AESA radar
- Bi/Multistatic clutter and multipath (land and/or sea)
- Web-browser user friendly interface (cloud version)
- Real-world RF hardware effects (e.g., channel miss-match, VSWR, etc.)
- Ships with global terrain and land cover data base
- Flexible/open interfaces support integration of end-user customized models
- Fully compatible with Matlab
- Ships with dozens of built-in quick-start examples for GMTI, SAR, ELINT, passive radar, and many others
- Standalone version available for on-site installation (ideal for classified/sensitive applications)

Modeling & Sim Specs.

- Uses of the model include all aspects of digital engineering, including RF system modeling and testing
- Flexibility to support multi-mode radar development and testing including GMTI, AMTI, SAR, ISAR, electronic protection (EP) and Cognitive Radar
- Fully bistatic simulation environment supports simulation of ELINT, SIGINT, ESM, RWR, and other passive RF systems
- Supports advanced R&D activities including high-fidelity synthetic data generation, algorithm development, and testing.
- Ideal for site-specific mission planning
- Ideal virtual RF environment for training and testing AI algorithms and systems

“Fly your Radar Anywhere”

Approximate statistical methods (“sigma-naught”) have run their course! ISL’s Fine-Grained RF Systems Modeling literally allows a user to simulate virtually any RF system anywhere in the world and under any environmental conditions.

Hi-Fidelity RF/Radar Sim

Need for high-fidelity, physics-based, mod & sim to faithfully reproduce, in a controlled environment, all real-world effect.

ZERO DOWNTIME / TURNKEY SOLUTIONS

RFView® MODSIM can be licensed as a Standalone Client or as a SAAS solutions Via RFView® Cloud.

Note: Client version can be run in parallel on a high-performance computer cluster to significantly reduce simulation time

TECHNICAL SUPPORT

- Training
- Starter Data sets
- Advanced support available for specific system and scenario generation, model integration, etc.

Services Available:

Technical Support

Training and tutorial in-class and/or distant learning sessions

Installation and Setup

Maintenance

Application Support

Hardware Support

System Requirements:

Windows workstation with high performance GPU