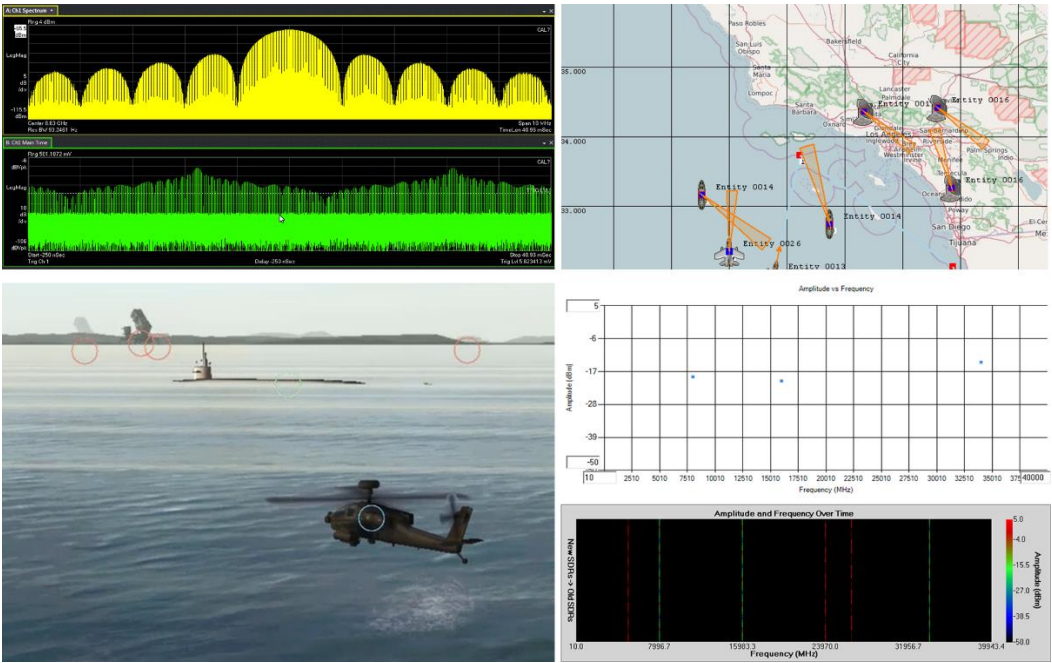


# Z9500A Keysight EW Threat Simulation View

From Desktop to Battlefield... see what you are missing



## Full Spectrum Real-Time RF Modeling with Dynamic Scenario Control and High-Fidelity Visualization

Z9500A Simulation View<sup>1</sup> software enables the rapid development, integration, and test of sophisticated Electronic Warfare Systems by allowing users to incrementally build out an RF System Development Environment (SDE) specialized to their needs and budget.

<sup>1</sup> Z9500A Simulation View is subject to US ITAR export controls, contact your Keysight representative



## Build: Real RF simulation of a theater environment for a system under test (SUT)

- Different depth of pulse on pulse cases
- TDOA, FDOA, Amplitude, and Phase Interferometry DF/Geolocation
- High Density Environments (millions of pulses per second)
- Import emitter definition from legacy threat databases

## Visualize: See every level of detail

- EW Gameboard to view complex entity laydowns and dynamic mission scenarios
- Multi-channel oscilloscope to capture time domain response with automatic entity tracking
- Spectrum analyzer to verify frequency response with automatic entity tracking
- PPI display that can switch between different simulated radars for jamming response

## Output: Flexible scenario options for different types of tests

- Real-time streaming RF scenarios to UXG Agile Signal Generators
- Real-time digital injection of signals to SUT when hardware is not available
- Real-world signal input via IQ data playback

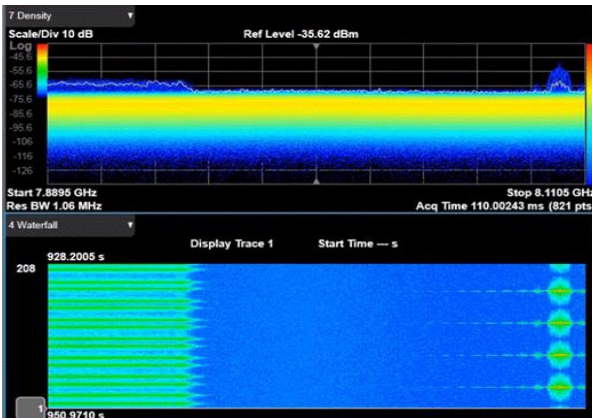


Figure 1. Real-time RF Output Tracking with RTSA

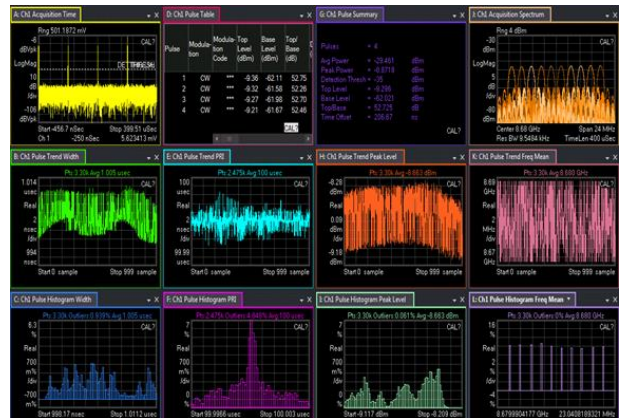


Figure 2. Automatic Pulse Analysis with Keysight 89600 VSA

## Test the Way You Fly

Z9500A Simulation View's scalable framework allows the incremental build out of both software and hardware to support a program's requirements. Initially, Z9500A Simulation View can be used to create a software-only RF environment to test operational code, allowing software development to proceed without dependencies on hardware. Use of the Interface Modeling Language (IML) enables rapid implementation and test of device interfaces.

As program development progresses, and more sophisticated environments are required, additional components can be added with ease. Hardware-in-the-Loop can be introduced as needed and when available. Using high fidelity generators like the UXG Agile Signal Generator and a scalable, plug-in software architecture, a program can assemble its RF SDE early with low entry cost. The capabilities and architecture of Z9500A Simulation View:

- enable iterative and incremental development
- improve a program's ability to adapt to change
- allow early detection of deficiencies
- help produce a higher quality product, meeting your objectives in less time

## License and Configuration

Keysight EW Simulation View offers flexible licensing options with different terms, support subscriptions, and types of licensing shown below. However, two model numbers are required:

- Z9500A Keysight EW Simulation View Bundle includes:
  - Y9500EMBC UXG Based license Keysight Simulation View for each UXG output
  - Y9500APPC PC Based license for Keysight EW Simulation View

License Term	
<b>Perpetual</b>	License is perpetual. However, a support subscription includes software updates and support for a chosen duration (i.e., from 12 months to 60 months). Can be renewed annually.
<b>Time-based</b>	Support subscription includes software updates and support through the license duration.

License Type	Description	Use Case
<b>Node Locked</b>	License may be used on one specified instrument/PC.	Locked to one instrument/PC
<b>Transportable</b>	License may be used on one instrument at a time, but can be transferred to another.	Flexibility to move from instrument to instrument

Z9500A Keysight EW Simulation View Bundle		
Software License Type	Software License	Support Subscription <sup>2</sup>
Z9500A Node-locked perpetual license bundle (includes the Node-locked licenses below)	R-Y5B-001-A	R-Y6B-001-x

PC Based License (Y9500APPC)		
Software License Type	Software License	Support Subscription <sup>2</sup>
Node-locked perpetual included in Z9500A bundle	R-Y5B-001-A	R-Y6B-001-x
Transportable	R-Y5B-004-D	R-Y6B-004-L

UXG Based License (Y9500EMBC)		
Software License Type	Software License	Support Subscription <sup>2</sup>
Node-locked perpetual included in Z9500A bundle	R-Y5B-001-A	R-Y6B-001-x
Transportable	R-Y5B-004-D	R-Y6B-004-L

<sup>2</sup> x means different support subscription duration. L for 12 months (as default), X for 24 months, Y for 36 months, and Z for 60-months. Support subscription must be purchased for all perpetual licenses with 12-months as the default. All software upgrades and KeysightCare support are provided for software licenses with valid support subscription.

## Hardware Configurations

To learn more about the UXG Agile Signal Generator family, please visit:

[www.keysight.com/find/uxg](http://www.keysight.com/find/uxg)

## Additional Information

Keysight EW Test and Evaluation Solutions Brochure, [5992-3476EN](#)

Learn more at: [www.keysight.com](http://www.keysight.com)

For more information on Keysight Technologies' products, applications or services, please contact your local Keysight office. The complete list is available at: [www.keysight.com/find/contactus](http://www.keysight.com/find/contactus)

