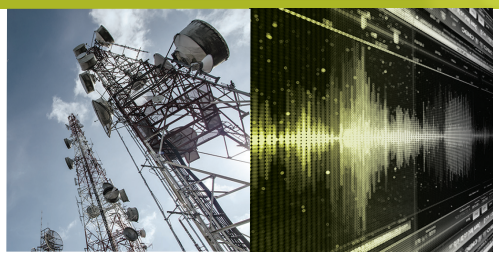
RF Studio™

Software Solution



Visualize, **capture** and **play back** the entire real-world **RF spectrum** to **accelerate receiver designs** and get to market fast.

Averna

RF Studio™
Software Solution

→ Need an all-in-one solution to record RF signals?

Today's RF experts, engineers and scientists need a comprehensive RF record-and-playback solution to accelerate their product design, validation and research projects. That's because there's no substitute for working with real-world RF signals and impairments. They provide the accuracy and repeatability that are impossible to achieve with drive tests or simulations.

RF Studio features smart RF-chain configuration, signal templates, and a handy noise figure to visualize signals and optimize gain. Within minutes you'll be recording and storing radio, video, connectivity and/or navigation signals for in-depth, repeatable analysis and testing.

→ Build a Complete Signal Library with RF Studio

By saving recording configurations, you can quickly setup and start recording immediately. With the **noise figure** feature you can record weak signals and optimize gain. The **spectrum**, **power**, and **histogram** views offer the ability to visualize all signals of interest.

Validate Your RF Receiver Designs Faster Than Ever

If you're doing traditional field testing of RF receivers, you know how time-consuming and costly that can be. Environmental conditions, satellite positions, solar events and interference are highly variable and almost impossible to reproduce.

With RF Studio on one of Averna's RF record and playback systems, capture hours of real-world RF signals. Accurately and consistently validate receiver design changes, and accelerate product-development. This saves the high costs and inconveniences of repeated trips to the field while providing reliable and repeatable data.

Visualize real-world signals with the noise figure, spectrum, power, and histogram views.

Perfect for capturing RF and impairments in urban canyons, tunnels, forest canopies and mountains.

Averna RF Instruments

RP-6500: Wideband Record and Playback

All-in-one RP Solution with Real-Time GNSS Simulation and SATCOM signal generator for advanced Satellite Navigation applications.

AST-1000: Infotainment Signal Source

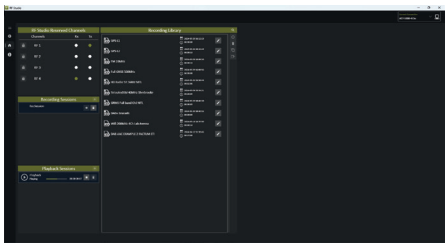
All-in-one RF signal source designed for flexible infotainment testing.

Key Features

Powerful RF record-and-playback software for capturing real-world RF spectrum, including GNSS, radio, video and location data; LabVIEW plug-in support, noise figure, spectrum, power and histogram views, available on Averna's AST-1000 and RP-6500. With a simple-to-use UI for easy workflow and efficient workload management, you can remotely control your hardware and share with your team to increase your ROI.

Powerful RF Workflow and Productivity Tools

Connections Panel: View of RF Studio's Connection Panel



Dashboard: Example of the simplified dashboard for record & playback.

Playback Panel: Easily monitor up to 4 channels of simultaneous playback.

Recorder Panel: Clear Visual Representation of each Recording

Recorder Panel: Clear View of the RF Signal Spectrum

Recorder Panel: Compare Signal Recordings Power vs Time

IMPORTANT LEGAL NOTE: Every country has different laws governing the transmission and reception and/or recording of radio signals. Users are solely responsible for using their R&P/URT in compliance with all local and applicable laws and regulations governing the transmission and reception and/or recording of radio signals. Averna Technologies Inc. does not accept liability for such use of our products. Averna recommends that you determine what licenses may be required and what restrictions may apply prior to use.

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