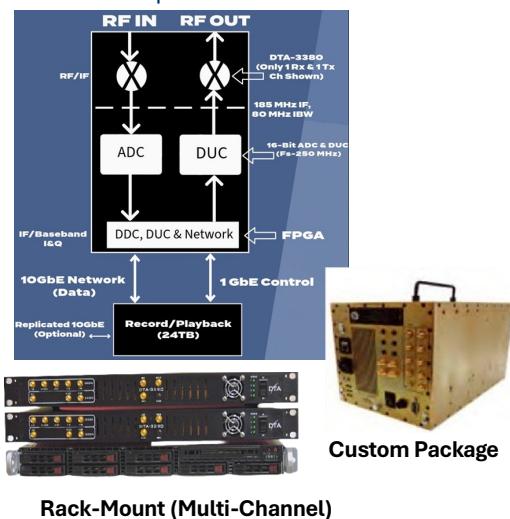


RFvision-Broadview for Comms Signals

Recording and Playing back RF signals are common requirement in most EMSO missions. D-TA has developed a software-based record/playback solution via 10/40/100 GbE UDP/IP optical data network using commercial off-the-shelf RAID servers.

RFvision-Broadview system supports multi-channel recording and playback of RF signals in the 30 MHz to 6 GHz frequency range with an IBW of up to 100 MHz.

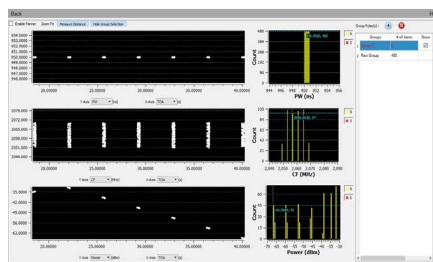
The system is customized to user defined requirements for number of receive and transmit channels, storage capacity (minimum 24 TB) and packaging (enclosure) for indoor and outdoor operations.



Signal Visualization & Analysis Software (SVAS) for Recorded I/Q Data

SVAS is a Windows compatible standalone executable which allows for the baseband data retrieval, visualization, and advanced signal processing for the recorded baseband I/Q data on the D-TA server. Derived from thousands of hours of signal analysis of D-TA recorded data, this software provides the user detailed analysis of the recorded digital data for ESM applications. The software architecture is fully flexible and open to user requirements in terms of providing support for advanced digital signal processing.

The software encompasses visualization of baseband I/Q data and its subsequent analysis including signal detection, classification and identification. I/Q data can be ingested by the software with any unclassified format. Standard format includes, dta, .csv, .txt, VITA49, etc.



Typical SVAS Output - Various Pulse Descriptor Words & Histogram Plots

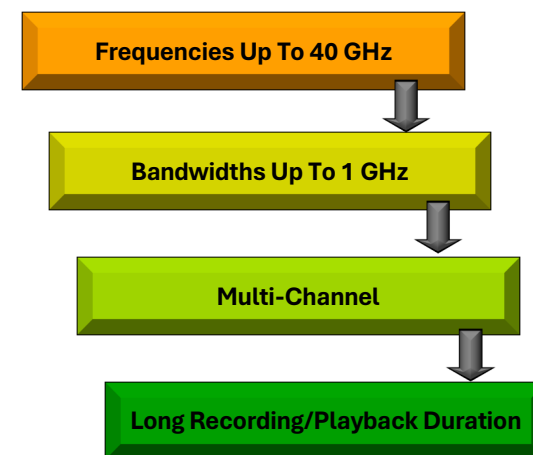
D-TA Systems Inc.

2500 Lancaster Rd.
Ottawa, ON, Canada
K1B 4S5

Phone: 613-745-8713
Fax: 613-745-1429
E-mail: sales@d-ta.com

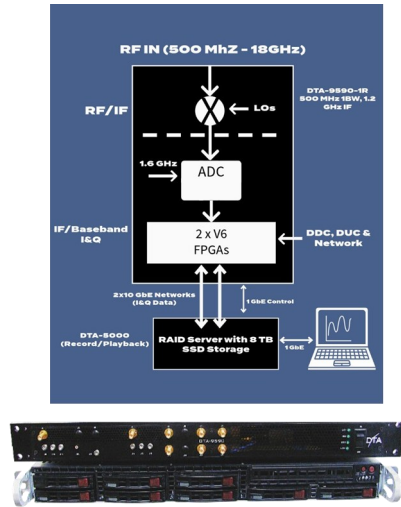


Wideband RF Recording & Playback



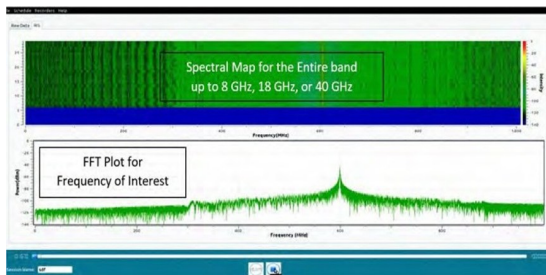
RFvision-2 for Radar Signals

The RFvision-2 record/playback solution supports frequency range up to 18 or 40 GHz. The operating BW can be up to 1 GHz.



Rack-mount RFvision-2

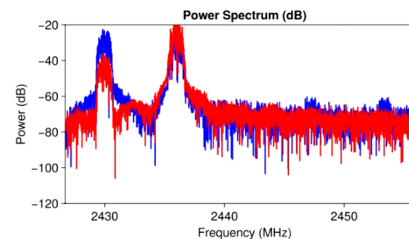
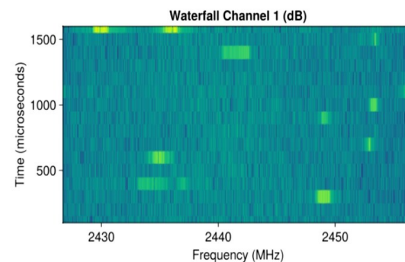
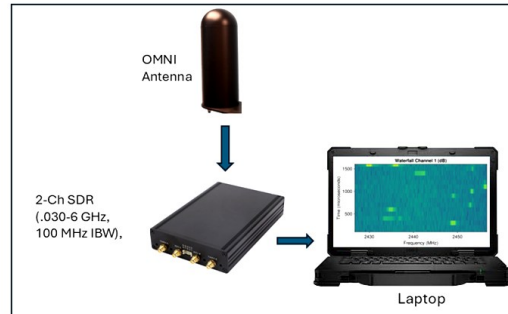
All RFvision family of products are supplied SigInspector software which allows the user to scan the spectrum, select the spectrum to record from waterfall display or occupancy chart, transfer recorded data files to the host and perform RF playback of pre-recorded data or host generated data.



SigInspector Software

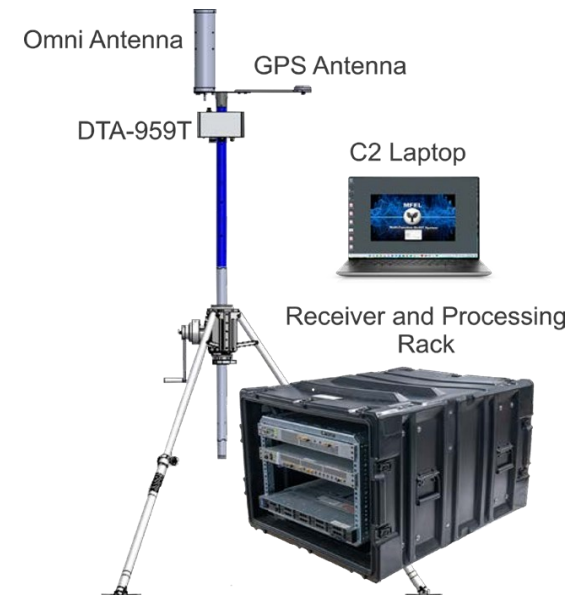
Spectrum Monitoring (30 MHz-6 GHz Comms Band)

Dual channel spectrum monitoring system allows one channel to continuously scan the spectrum and provide waterfall display or spectrum occupancy chart while the other channel can stare at the frequency band of interest and record the corresponding I/Q data until commanded to move to another frequency band of interest.



Spectrum Monitoring (500 MHz-18 GHz Radar Band)

The compact and low-cost RFvision-2000 (similar hardware as MFEL-1000) is designed to provide 360-degree spectrum view to detect and record radar emitters. The operating BW is programmable from 100 MHz to up to 500 MHz/1 GHz. The system is designed to operate with minimal operator training. Once the system is set up with appropriate frequency scan parameters (selected frequency bands and dwell times), the system starts providing situational awareness with signal activity in each scanned band. The operator can select the frequency band to record for post analysis.



RFvision-2000 Spectrum Monitoring System