

ROHDE & SCHWARZ

Make ideas real



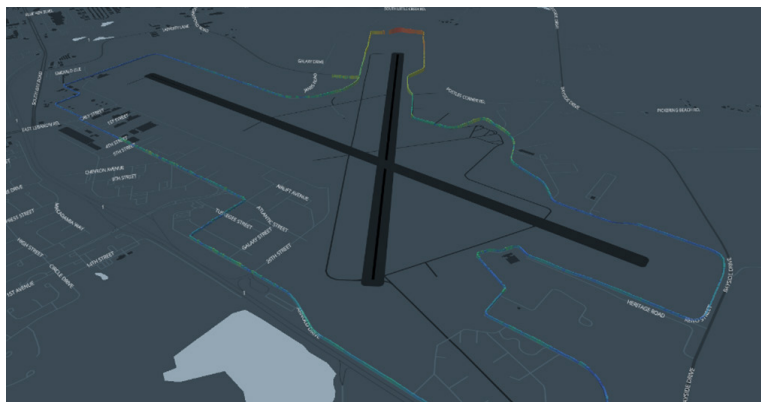
R&S®CEPTOR-ML

Reliable Geolocation with minimal footprint

Rohde & Schwarz (R&S) has been a staple in the U.S. Electromagnetic Spectrum community for more than 15 years with EMS solutions. R&S continues to invest in tools that provide a higher degree of versatility and usability for DoD Spectrum Operators. The EMS community require solutions which monitor the EME and provide actionable data in a short amount of time. For this reason, Rohde & Schwarz embarked on a significant development effort to aggregate key capabilities into one cohesive system called R&S®CEPTOR-ML. R&S®CEPTOR-ML's versatility enables an EMS operator to perform multiple unique mission sets in a small footprint and easy to use interface.

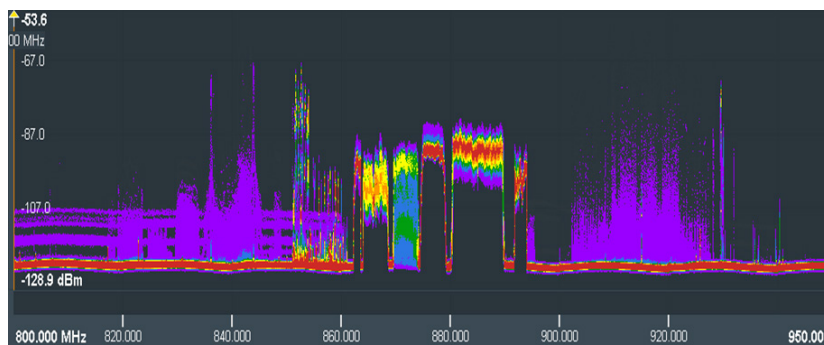
Versatile Antenna Suite

R&S®CEPTOR-ML provides operators with an omni-directional monitoring antenna, omni-directional direction finding antennas, and directional antennas. This suite allows for multiple EMS use cases from EMCON Condition Monitoring/Alarming, RF coverage mapping, radio "dead zone" identification, signal of interest geolocation, and EMS monitoring while utilizing the same receiver with the quick switch of an antenna.



R&S®CEPTOR Software Package

R&S®CEPTOR unifies the functions of R&S®CEPTOR-ML into a common application GUI that the operator can utilize regardless of their mission set. Recorded data is available to the operator for quick action reports, providing valuable visuals to support EMS decision makers. R&S®CEPTOR-ML enables operators to understand how the EMS can affect the spectrum-dependent operations in an area of responsibility.



One Receiver EMS Monitoring and Geolocation

R&S®CEPTOR-ML's adaptability means users get a full monitoring system and a full geolocation system with just one receiver instead of utilizing multiple receivers for individual missions. R&S®CEPTOR-ML performs several mission sets without the footprint of multiple receivers while still providing essential EMS operations required by the DoD.



R&S®CEPTOR-ML Key Facts:

- ▶ Existing CEPTOR systems can be upgraded
- ▶ Detect, Analyze, and Locate RF signals from 8 kHz to 20 GHz (extendable to 33 GHz)
- ▶ 47 GHz/s Scan speed
- ▶ Minimum Infrastructure requirements
- ▶ EMCON Condition Monitoring/Alarming
- ▶ Automatic Signal detection
- ▶ Signal Classification
- ▶ Built in GNSS including multiple constellations for use in GPS-denied environments
- ▶ High RF performance optimized for use in dense spectrum environments thanks to sub-octave preselection and automatic overload protection