

R&S®MMS COMPACT

Compact interference hunting on the move



Example deployment of the antenna on a sedan

Versatile mobile monitoring station for flexible deployment on commercial vehicles

The R&S®MMS COMPACT is a powerful yet incredibly simple mobile spectrum monitoring system designed to quickly locate and resolve interference, ensure regulatory compliance and perform vital coverage measurements – all while on the move. With automated geolocation and a straightforward setup, the R&S®MMS COMPACT empowers you to efficiently tackle challenges in public safety, telecommunications and beyond. Its compact design and robust performance enable rapid deployment in a variety of vehicles for fast results with minimal downtime. Whether you need to pinpoint rogue signals, verify spectrum usage or assess network coverage, the R&S®MMS COMPACT is your reliable solution for mobile spectrum monitoring.

Key facts

- ▶ **Automated geolocation:** rapidly pinpoint signal sources with automated location calculation
- ▶ **Wide frequency range from 9 MHz to 8 GHz:** monitor a broad spectrum for comprehensive analysis
- ▶ **Compact and portable design:** deploy easily in various vehicles and environments
- ▶ **Simplified operation:** ease of use through intuitive software and minimal setup time; packed neatly in a single transport case

Benefits

- ▶ **Faster interference resolution:** significantly reduces search time and minimizes downtime
- ▶ **Effortless deployment:** means simple setup and operation for a quick response in the field
- ▶ **Improved efficiency:** automates key tasks, freeing up operators to focus on critical analysis
- ▶ **Enhanced reliability:** through a robust design for dependable performance in challenging environments

Applications

- ▶ **Interference hunting:** locate and mitigate unwanted signals
- ▶ **Regulatory compliance:** verify spectrum usage and adhere to regulations
- ▶ **Coverage measurements:** assess network performance and identify coverage gaps
- ▶ **Signal intelligence:** analyze RF signals for situational awareness

Flyer
Version 01.00

ROHDE & SCHWARZ

Make ideas real



System configuration example

R&S®MMS COMPACT is a comprehensive setup consisting of the R&S®ADD507 compact VHF/UHF direction-finding (DF) antenna, a magnetic antenna mount, a monitoring receiver and all the accessories needed for flexible deployment. Either the R&S®PR200 portable monitoring receiver or the R&S®UMS400 universal monitoring system can be selected as the monitoring receiver. The R&S®ARGUS or R&S®CEPTOR based R&S®MobileLocator software packages are recommended for optimal operation and integration into the monitoring infrastructure.

R&S®ADD507 compact VHF/UHF DF antenna

- ▶ Compact direction finding antenna with a frequency range from 9 MHz to 8 GHz
- ▶ Innovative antenna design with excellent VHF sensitivity
- ▶ Active antenna elements with active/passive switches and passive elements

R&S®PR200 portable monitoring receiver

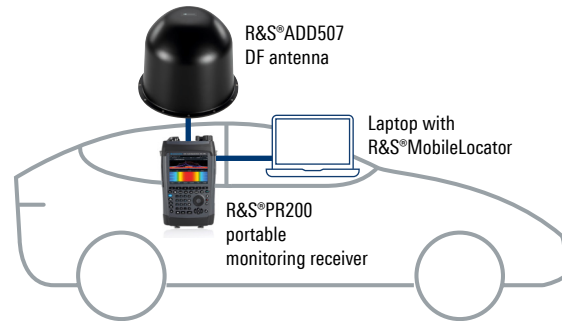
- ▶ Spectrum monitoring receiver in handheld format
- ▶ Detection, analysis and localization of RF signals from 8 kHz to 8 GHz, direction finding with R&S®ADD507 from 9 MHz to 8 GHz
- ▶ Comprehensive tool for frequency and time domain analysis with up to 40 MHz real-time bandwidth
- ▶ High speed panorama scan of up to 60 GHz/s across the entire frequency range

R&S®UMS400 universal monitoring system

- ▶ Universal monitoring system with integrated Windows PC for remote operation
- ▶ Also usable in transportable monitoring setups for temporary deployment on a tripod
- ▶ Same RF performance as R&S®PR200

Simple automatic direction finding system configuration

R&S®PR200 portable monitoring receiver, R&S®ADD507 DF antenna and laptop with installed R&S®MobileLocator software



R&S®CEPTOR with R&S®MobileLocator

- ▶ Modern GUI design for intuitive operation and quick results
- ▶ Job concept for executing applications and collecting results
- ▶ Remote control of systems over wide area networks
- ▶ Integrated system monitoring and management
- ▶ Automatic calculation on the move of transmitter location

R&S®ARGUS

- ▶ Geolocation of emitters using angle of arrival (AoA), time difference of arrival (TDOA) and hybrid methods
- ▶ Map based operation and system status display
- ▶ Integration of mobile monitoring stations in nationwide monitoring networks

System components



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