



Antenna Measurement Spectrum

Recording and Analysis of the HF Spectrum

- Drive testing of car antennas
- Data recording of a connected spectrum analyser
- Standalone recording box without additional computer
- Georeferencing of the measurement points: GPS status, speed, altitude etc.
- 4 measurement points per second
- Subsequent processing and editing of the measurement point list in an user-friendly analysis software
- Handling of large amounts of measurement data
- Connection to a number of web map services

Options

- Live monitoring on PC or notebook
- CAN Bus interface
- Connection to an EMC field probe

maintech
GmbH

maintech GmbH
Max-Planck-Str. 8
D-97204 Höchberg
Germany

Tel +49-(0)931-4070690
Fax +49-(0)931-4070653

Mail info@maintech.de
Web www.maintech.de

Recording of the HF Spectrum

For testing the signal quality of car antennas under real life conditions, the mobile antenna measurement system AMS is a powerful and well-priced solution. With the spectrum measurement box, it is possible to drive along the relevant reception area and to search for reception interferences and analyse problems afterwards.

The spectrum box records the measurement values of a connected spectrum analyser up to four times per second. If necessary, an EMC field probe can be connected, too.

For simplified network configuration, the box includes a DHCP client. The built-in GPS receiver supplies several data for the georeferencing. It is not necessary, but possible to connect a control computer while driving.

Analysis Software Functions

- Live monitoring of the measured data
- Integration of streetmaps and satellite images that are available on the internet
- Consolidation of several measurement data sets
- Simultaneous representation of a number of measured variables as different dot sizes, colour gradient, shapes etc. or as bargraphs
- Time-distance plots with comparative function
- Multiple filter criteria to reduce the visualized data set

- Extraction of discrete frequencies from the recorded spectra
- Analysis settings can be stored in profiles for quick access
- Report generation, manually or automatically from templates: Spectra, measurement data diagrams, maps
- Statistical evaluation of the measurement data
- Analysis of spectrum level differences
- Computation of a 2D distribution function with interpolation
- Analysis of the energy integral
- Intermodulation products calculation
- CSV import and export
- Printing functions for map and plots, PDF export

Specifications

Spectrum Measurement Box	
Power input	13.8V, ~10W
Dimensions	204x130x55mm
GPS	built in
Spectrum analyser	WillTek 9102, R&S FSH-8 via Ethernet R&S FSH-3 via RS232
Recording	on built-in memory
Readout	via USB or ethernet

