



RX-Eagle Drone – RF Measurements from a Bird's Eye View

The RX-Eagle drone enables broadband and frequency selective measurement of the RF signal spectrum at predefined points or during manual flight. Thanks to the patented shielding, safe operation is possible at locations with increased field strengths with minimal influence of the drone on the measurement.

Through the high degree of integration of the overall system, measurements can be carried out efficiently by a single person. This is made possible by the software, which covers the entire workflow from preparation to execution to evaluation of the measurement results. The ground station software allows different live views, the creation of automated measurement and flight routines as well as the evaluation of the recorded data.

Typical areas of application for the drone are EMC, EMI, antenna measurement, signal mapping, signal localization, leakage search, inspection and troubleshooting of radio systems.

Technical Data

Equipment Variants:

- Selective measurement/ Spectrum Analysis in the range 1 MHz - 6 GHz
- Broadband measurement (Broadband Probe) in the range DC - 90 GHz

Spectrum Analysis:

- Frequency range: 1 MHz – 6 GHz
- Realtime bandwidth: 20 MHz
- Max. input level: +10 dBm
- DANL (RBW=1Hz): -145 dBm
- Level uncertainty: +/-3 dBm
- Resolution: 8 Bits

Broadband Probe:

- Isotropic measurement
- E- or H-Field
- Frequency range DC - 90 GHz

Antennas:

- Directional antenna 0.7 - 6 GHz
- Omnidirectional antenna 0.6 - 8 GHz

Drone:

- Electromagnetically shielded
- Take-off weight: < 2 kg
- Flight time: > 15 min
- Measurement points: 60/min
- Communication frequency: 2.4 GHz

Scope of Delivery:

- Drone
- Remote control
- Groundstation laptop
- Control software
- Transport case
- Accessories

Measurement Cockpit Software:

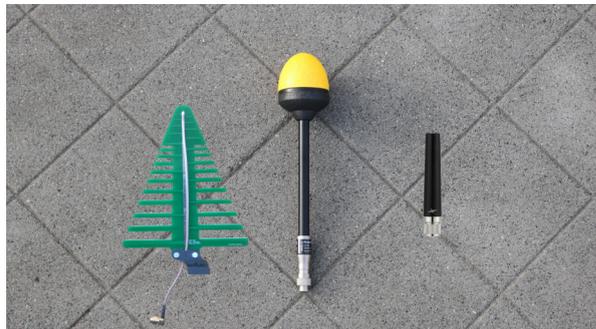
- Configuration of measurement
- Configuration of flight maneuver
- Camera, spectrum, fieldstrength and map view
- Analysis and display of recorded data

Product Images

Drone with Broadband Probe



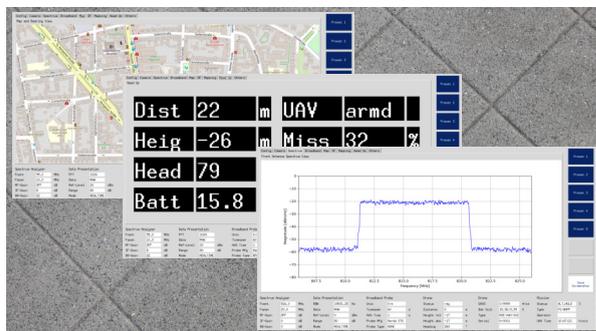
Antennas & Probes



Drone in Transport Case



Software

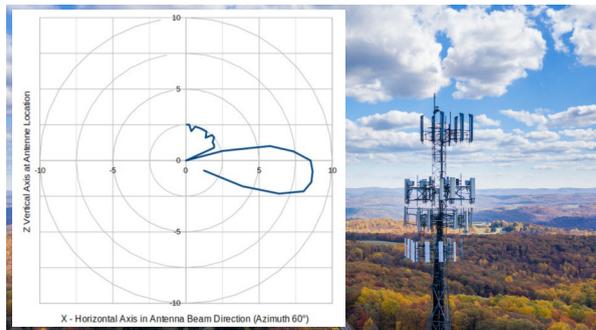


Applications

Signal Mapping



Antenna Characterization



EMC Measurements



Signal Localization

