



Drone-Based Electronic Surveillance (ESM)

Airborne signal detection, direction finding, and triangulation for tactical information superiority

Modern deployment scenarios require precise, flexible and scalable solutions for electronic surveillance. Our airborne monitoring unit (AMU) enables the detection, direction finding and triangulation of electromagnetic signals and is suitable for military reconnaissance, signal detection and the evaluation of enemy and friendly emissions.

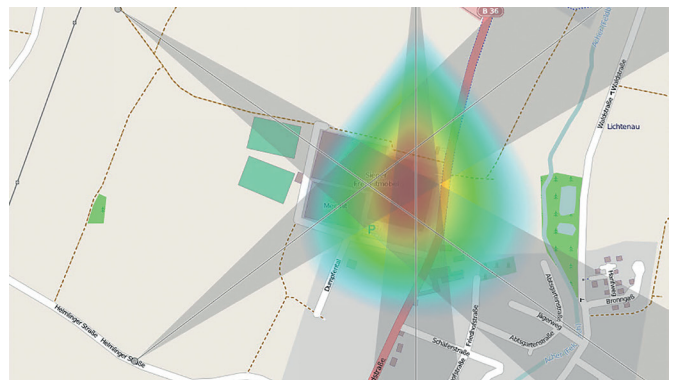
Airborne Monitoring Unit (AMU)

Characteristics & performance features

- **ESM functionality:** radio reconnaissance, direction finding and triangulation from the air
- **Integrated payload:** receiver, computer, memory, antennas (directional & omni), gimbal
- **Flexible connection:** Control via software, connection via WiFi, LTE or cable
- **Wide frequency range:** min. 9 kHz to max. 6 / 14 / 32 / 44 / 50 GHz
- **Specialised antennas:** Optimised for drone-based applications



Airborne Monitoring Unit (AMU)

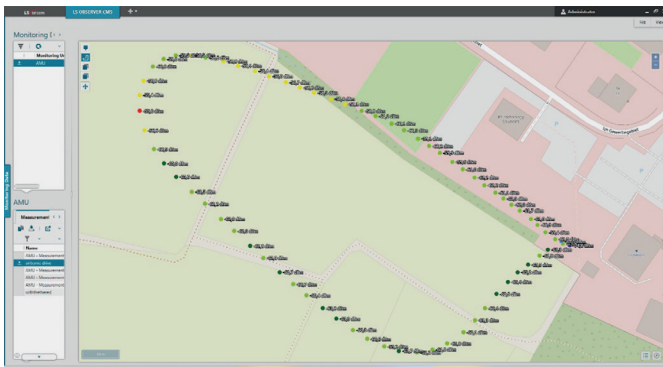


Triangulation

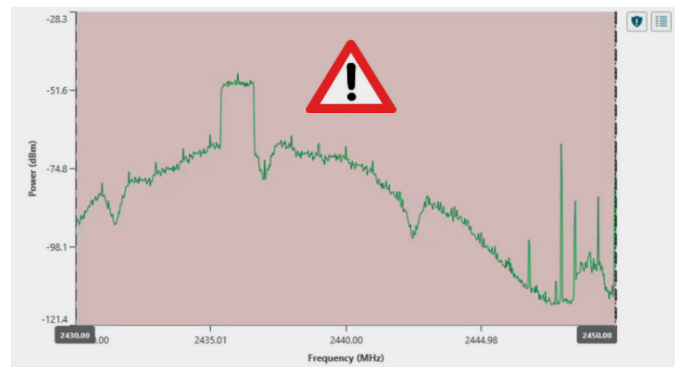
Software functions

Analysis, visualisation and automation

- Signal bearing and triangulation
- Automatic anomaly detection (AI-based)
- Comprehensive data recording: raw data, filtered data, statistics and IQ data
- Spectrum and waterfall analyses with comprehensive tools
- Detection of centre frequency, bandwidth and modulation parameters
- Map-based visualisation of signal strength along the flight route
- Automated measurements via predefined jobs and one-click applications
- Demodulation & decoding with stream for third-party tools



Airborne RF drive test



Automatic anomaly detection

Airborne RF drive test

Signal measurement along defined flight routes

- Recording of a frequency scan or defined carriers when flying a route
- Colour-coded display of measured levels on maps
- Individually customisable colour scales for precise evaluation
- Ideal for coverage measurement and range analysis of your own emissions
- Support for signal detection and location (e.g. satellite uplink such as Starlink)

GBA

Please contact us, we look forward to hearing from you:

LS telcom AG
Im Gewerbegebiet 31-33
77839 Lichtenau
Germany

+49 7227 9535 600
+49 7227 9535 605
Info@LStelcom.com
www.LStelcom.com

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