unival SPECTRUM GUARD
DroneWall cUAS SYSTEM

The unival USG cUAS system is an automatic radio monitoring system for TSCM and cUAS operations. The cUAS part is adopted to counter drone applications under the brand name "USG DroneWall. The unival cUAS DroneWall does not use conventional radio jamming techniques but sends channel-specific DoS and DoA attacks towards the drone and its access points without interfering with neighboring WiFi networks.

USG DroneWall CONSISTS OF:

The main USG hardware unit USG-6 (9 KHz – 6 GHz)/ USG-9 (9 KHz – 9 GHz)/ or USG 30 (9 KHz – 30 GHz) is a complex system of radio monitoring and digital signal analysis. It is designed for 24/7 continuous operations.

THE unival APPROACH TO cUAS

USG-6/ USG-9 and USG 30 are designed for TSCM (Technical surveillance counter measures) operations and tactical radio monitoring/ signal classification. The modular design of DroneWall enables for the integration of multiple sensors to upgrade the system for any kind of **signal detection, analysis, classification and for additional counter measures**.
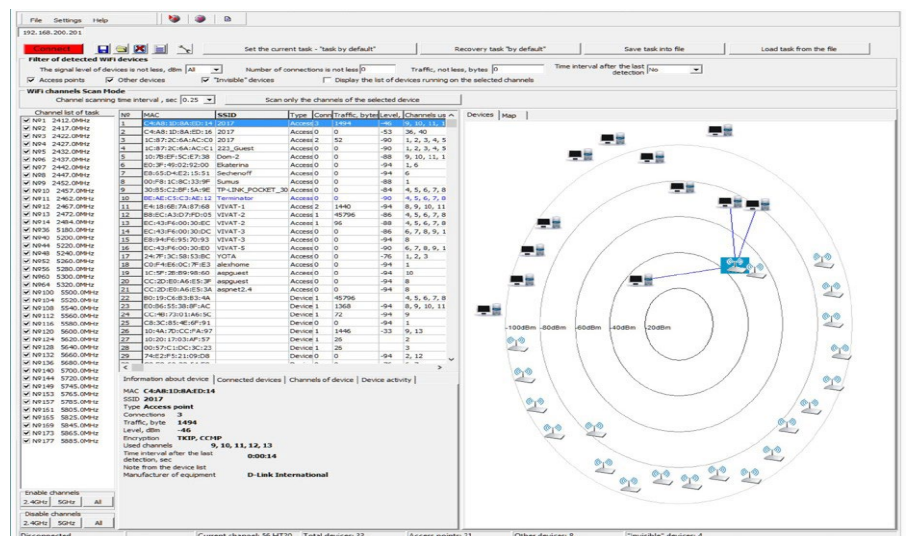
... MORE THAN cUAS

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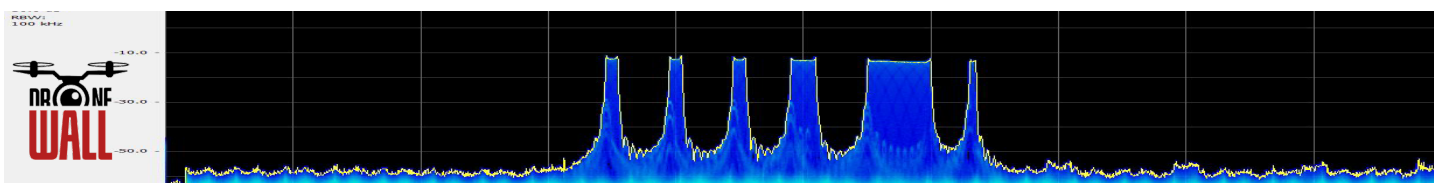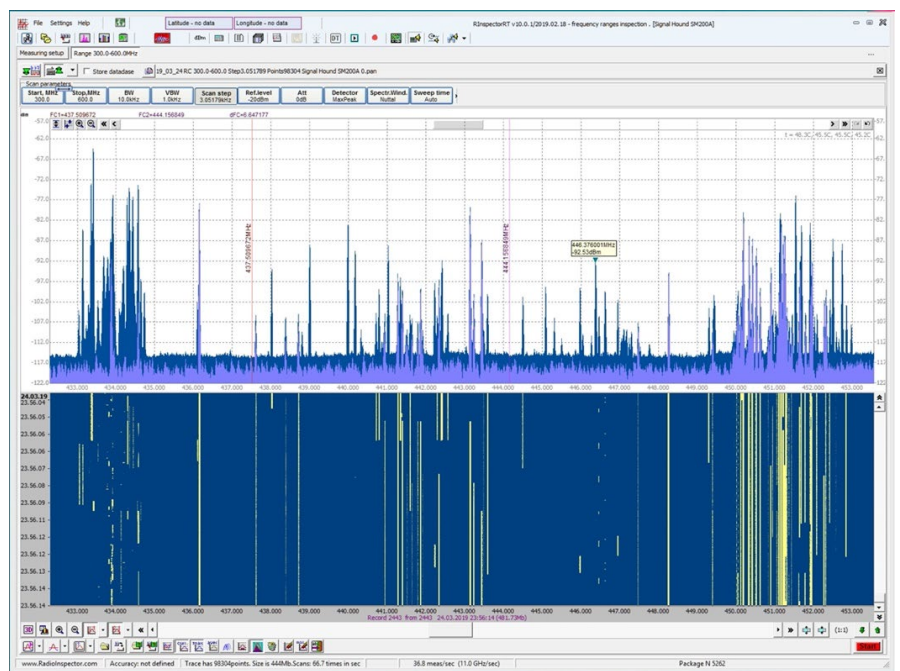## DroneWall cUAS SYSTEM

- Alternative drone defense system
- Modular object-based adaptation
- Radio monitoring
- Passive with and without radar
- Modular (integration of multiple and additional sensors)
- Signal analysis
- Radio monitoring in parallel to TSCM/ cUAS operations
- Signal classification
- TSCM-solution with digital signal analysis
- Counter surveillance
- Direction-finding of drones, jammers and IMSI catchers

To counter the threat of drones, USG series is completed with:

- **Detection:** WifiMonitor/ Radio-Monitoring System incl. RadioInspector Software.

- **WifiGuardian:** With unival Spectrum Guard Wifi Guardian, Wifi networks, Wifi devices and access points will be detected and monitored. The operator can start a "Denial of Access" attack on selected access points (drone ort others), so that existing connections will be stopped, and new connections will not be accepted. With a "Denial of Service" attack, DroneWall is flooding the targeted drone with superfluous requests and overloads the system.

- **WifiEffector:** 2.4, 5.8-5.9 GHz SDR. Channel-based DoS and DoA attack by filling the channels with data packets ensures high traffic. The data-traffic of the authority can be considered to avoid interference on individual channels.

- Our WifiEffector OPERATES BELOW THE SIGNAL LEVEL OF A WIFI FREQUENCY BAND.

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