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Make ideas real



AUTOMATIC DRONE IDENTIFICATION AND DISRUPTION SOLUTION



DETECTION AND DISRUPTION OF REMOTE CONTROLLED DRONES

The ARDRONIS Effect solution targets radio signals from remote controlled drones. By analyzing the control link, it intelligently generates optimized jamming signals to disrupt drone communications and prevent unauthorized drones from entering protected areas.

ARDRONIS Effect delivers powerful performance across a wide frequency range with high output power. It can jam multiple bands simultaneously and allows the use of custom waveforms to effectively address evolving threats, while minimizing interference with non-drone signals in the environment.

Benefits:

- ▶ Effective defense through disruption of drone signals
- ▶ Highest output power across the full frequency range
- ▶ Simultaneous jamming of multiple bands in arbitrary combinations
- ▶ Active and reactive jamming modes

Displayed system based on:

- ▶ R&S®BBA300 high-power wideband amplifier
- ▶ R&S®SGT100A signal generators
- ▶ R&S®HL040AX directional antenna



ARDRONIS Effect
▶ detect / identify
▶ disrupt

Features:

- ▶ **Active countermeasures:** The three ARDRONIS Effect jamming modes (Programmable Wideband jamming, Smart Wideband jamming, Smart Follower jamming) can reliably stop single or multiple FHSS-controlled drones, with as much disruption of the surrounding spectrum environment as necessary but as little as possible.
- ▶ **Detection and identification:** ARDRONIS Effect can detect and identify signals of commercially available drones, remote-controls and telemetry downlinks (FHSS signals, analog and digital video signals)
- ▶ **High output power:** ARDRONIS Effect delivers powerful performance across the entire frequency range from 400 MHz to 6 GHz (gapless), with up to 250W output power. Thus, the solution also effectively tackles the problem of FPV drones operating on non-ISM bands.
- ▶ **Adjustable waveforms:** ARDRONIS Effect allows the operator to jam with arbitrary waveforms to remain effective even against future signals

becoming modified to optimize drone range and jamming resistance. Ensure to stay ahead of the threat, with a solution that adapts to every situation.

- ▶ **Multiband capability:** To address the growing threat of coordinated drone attacks across different frequencies, ARDRONIS Effect can jam multiple bands simultaneously, even in arbitrary combinations.
- ▶ **Independency from encryption:** Drone communications are often heavily encrypted - ARDRONIS Effect detection and disruption is not effected by encryption, ensuring effective jamming no matter the level of security.
- ▶ **Operational flexibility:** Whether for preventive or reactive jamming, ARDRONIS Effect excels in a wide range of scenarios. It can be deployed in different configurations, such as for the protection of mobile assets or large areas. Additionally, with up to 24/7 active jamming, it provides continuous, reliable protection. Jammer settings can be easily adjusted manually or automated for smooth operation.

The complete ARDRONIS family



ARDRONIS Detect
▶ detect / identify



ARDRONIS Locate Compact
▶ detect / identify
▶ locate / track drone



ARDRONIS Locate Advanced
▶ detect / identify
▶ locate / track drone and pilot

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Sustainable product design

- ▶ Environmental compatibility and eco-footprint
- ▶ Energy efficiency and low emissions
- ▶ Longevity and optimized total cost of ownership

Certified Quality Management
ISO 9001

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ISO 14001

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Automatic drone identification and disruption solution

Data without tolerance limits is not binding | Subject to change

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