

ROHDE & SCHWARZ

Make ideas real



AUTOMATIC DRONE IDENTIFICATION AND DISRUPTION SOLUTION



DETECTION AND DISRUPTION OF REMOTE CONTROLLED DRONES

The ARDRONIS Effect solution provides immediate notification of the presence of radio signals from commercial drones and their remote controls. It leverages this information for smart disruption of communications between the drone and its remote control to prevent it from entering the protected area.

Collecting intelligence about the control link, the ARDRONIS Effect creates effector signals that are highly effective at disrupting the detected drone communications while minimizing the effect on non-drone signals in the same environment.

Benefits:

- ▶ Active threat defense through disruption of control links as a countermeasure
- ▶ Smart jamming disrupts only selected drones
- ▶ Minimal disturbance of the surrounding spectrum environment
- ▶ Robust, weatherproof design for missions of few hours up to several years

Displayed system based on:

- ▶ R&S®WSE wideband smart exciter
- ▶ R&S®SGT signal generator
- ▶ R&S®HL040E directional antenna



ARDRONIS Effect
▶ detect / identify
▶ disruption

Features:

- ▶ **Active countermeasures:** The ARDRONIS Effect has three jamming modes (smart hopper follower, smart wideband, multiband mode) to reliably stop single or multiple FHSS controlled drones with minimal disturbance of the surrounding spectrum environment.
- ▶ **Detection and identification:** ARDRONIS Effect detects and identifies signals from commercially available drones, remote controls and telemetry downlinks (FHSS signals, analog and digital video signals).
- ▶ **Early warning:** Early warning is the key to countering any threat. ARDRONIS Effect detects RC activity even before drones take off. Early warning alone often ensures an effective response such as pilot interception.

- ▶ **Weatherproof:** ARDRONIS Effect can be deployed across a wide variety of operating environments, with environmental ratings of IP67 and a temperature range from -30°C to 55°C.
- ▶ **Future-ready:** The solution supports future software upgrades and optional add-ons, including Wi-Fi drone detection, pan-tilt control and decoding functionalities. The signal database is frequently updated with service packs.
- ▶ **Open interface:** An open interface enables integration into multivendor and multisensor solutions, making ARDRONIS particularly attractive to system integrators. For interconnection of remote sensors, ARDRONIS Effect offers 3G and 4G connectivity.

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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- ▶ Local and personalized
- ▶ Customized and flexible
- ▶ Uncompromising quality
- ▶ Long-term dependability

Rohde & Schwarz

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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

Certified Environmental Management

ISO 14001

Information Security Management System

ISO/IEC 27001

Certified Quality Management

AQAP-2110

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Automatic drone identification and disruption solution

Data without tolerance limits is not binding | Subject to change

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