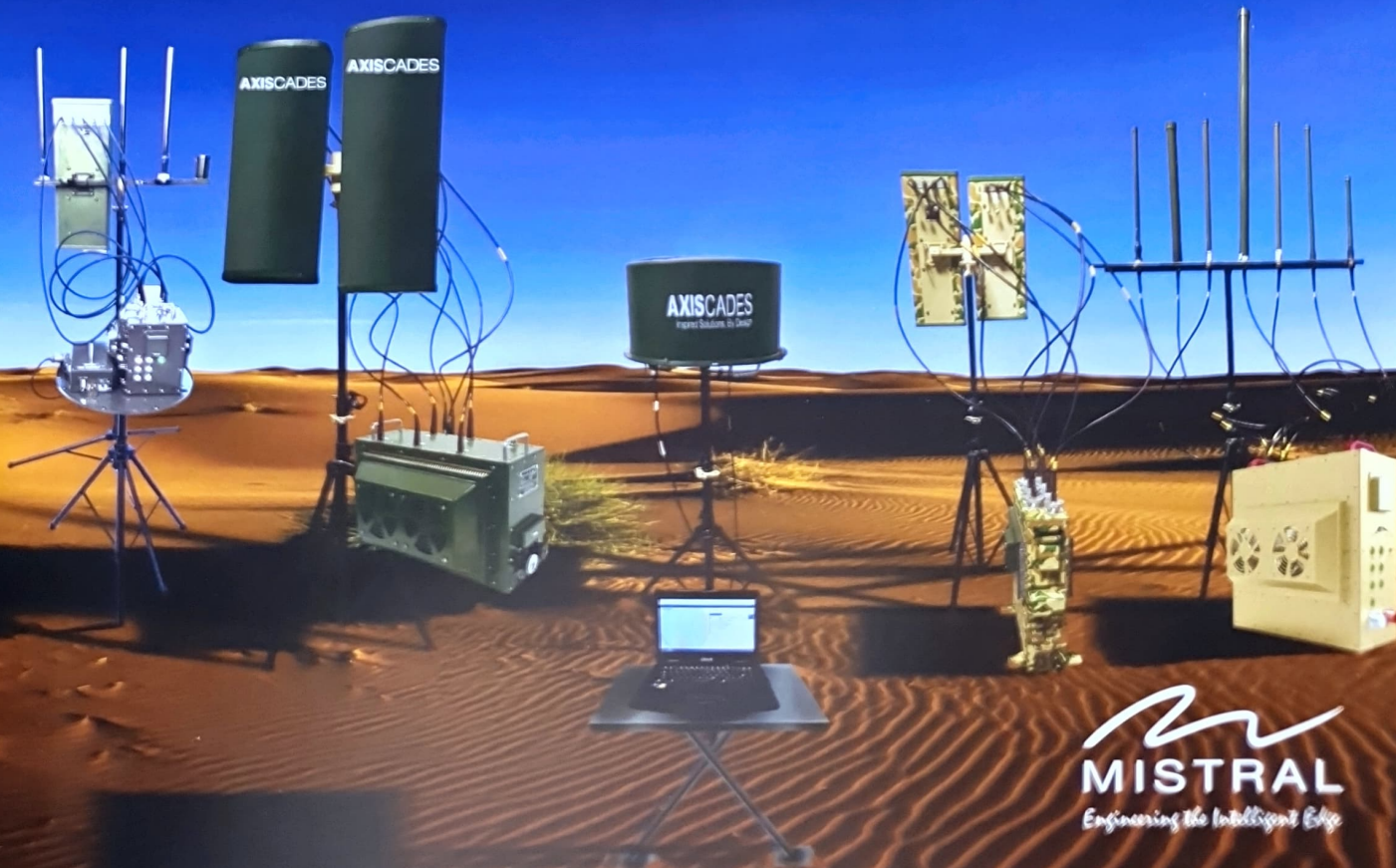




Counter-Drone Systems

Secure Your Airspace with Cutting-Edge
C-UAS Solutions



MISTRAL
Engineering the Intelligent Edge

OVERVIEW

Counter-Unmanned Aircraft Systems (C-UAS) or Counter-Drone Systems from AXISCADES Aerospace and Technologies are advanced solutions designed to detect, track, and neutralize unauthorized or hostile drones in real-time. These systems leverage cutting-edge technologies such as passive RF detection, AI-powered analysis, and multi-band jamming to provide comprehensive airspace security. From critical infrastructure and military installations to public events and urban environments, Counter-Drone Systems ensure protection against emerging drone threats, enhancing safety and operational efficiency across diverse scenarios.

C-UAS feature a robust RF detector and multiple variants of jammers, which can be configured to suit diverse environments and operational requirements. These systems are highly adaptable and can be customized for various applications, including man-portable, tripod-mounted, and vehicle-mounted configurations.

ACAT-3DEV-106 Drone Detection System

The ACAT-3DEV-106 is a cutting-edge passive RF detection system designed to identify and monitor drone activity within a 2 km radius. With 360-degree azimuth coverage and advanced software capabilities, it provides real-time detection, classification, and localization of commercial off-the-shelf (COTS) and custom drones. The system is ideal for securing airspace around critical infrastructures, borders, and public events.

Features

- ▶ Detection Method: Passive Detection of Radio Frequency signal
- ▶ Detection Range: 2 km radius
- ▶ Azimuth: 360° coverage
- ▶ Elevation: up to $\pm 30^\circ$
- ▶ Frequency Range: 400 MHz - 6 GHz
- ▶ Detection Sensitivity: -110 dBm
- ▶ Power Supply: Battery, AC 230V, DC
- ▶ Drone Positioning: Lat/Long up to 10m accuracy
- ▶ Identification: Drone ID with friend or foe listing
- ▶ Software: C2/C4 software integration
- ▶ Weight: Max 15 kg
- ▶ Operating Temperature: -10°C to +45°C



Man-Portable Drone Jamming System (MPDJS)

The MPDJS is a high-power, man-portable drone jamming system that neutralizes drones within a range of up to 3 km. Designed for versatility and portability, it provides effective jamming across seven frequency bands and offers frequency whitelisting capabilities. Rugged and reliable, it ensures uninterrupted protection in diverse operational scenarios.

Features

- ▶ Jamming Range: Up to 3 km
- ▶ Frequency Bands: Covers 430-5900 MHz
- ▶ Azimuth & Elevation: up to 70° & 30° respectively
- ▶ RF Power Output: 200W
- ▶ Power Supply: AC 230V
- ▶ Antenna Gain: 7 dBI
- ▶ Frequency Whitelisting: Yes
- ▶ Operating Modes: Manual, Software-defined
- ▶ Operating Temperature: -10°C to +45°C



Mini MPDJS

Compact and portable, the Mini MPDJS offers robust jamming capabilities within a 2 km range. It supports custom frequency configurations and features an energy-efficient design powered by DC supply, making it ideal for tactical applications.

Features

- ▶ Jamming Range: Up to 2 km
- ▶ Frequency Bands: Covers 430-5900 MHz
- ▶ Azimuth & Elevation: up to 70° & 30° respectively
- ▶ RF Power Output: 100W
- ▶ Power Supply: DC 24V-32V
- ▶ Antenna Gain: 7 dBI
- ▶ Operating Modes: Manual, Software-defined
- ▶ Frequency Whitelisting: Yes
- ▶ Operational Temp: -10°C to +45°C

Vehicle-Mount Jammer

The Vehicle-Mount Jammer is engineered for mobility and rapid deployment. With a 1 km jamming range and compatibility across multiple frequency bands, it ensures on-the-go drone countermeasures for vehicular platforms.

Features

- ▶ Jamming Range: Up to 1 km
- ▶ Frequency Bands: Covers 430-5900 MHz*
- ▶ Azimuth & Elevation: up to 70° & 30° respectively
- ▶ RF Power Output: 50W
- ▶ Power Supply: Battery, AC, DC
- ▶ Antenna Gain: 5-7 dBI
- ▶ Operational Temp: -10°C to +45°C



Benefits of our Counter-Drone Systems



Comprehensive threat detection across multiple frequency bands



Quick detection and jamming capabilities



Rugged and reliable systems designed for harsh environments



Enhanced operational flexibility with manual and software-based controls



360-degree airspace coverage



Highly scalable systems with flexible deployment options



Customizable frequency support for mission-specific needs



Portable and easy to deploy

Tailored Solutions for Diverse Needs

Our Counter-Drone Systems offer extensive customization options to meet specific operational requirements. From adjustable frequency bands and jamming ranges to modular deployment configurations like stationary, portable, or vehicle-mounted setups, these systems can be tailored for various applications. Customizable software integrations and frequency whitelisting further ensure seamless compatibility and secure operation in diverse environments.

For additional details, contact us to learn more about our advanced Counter-Drone Systems!



AXISCADES
Inspired Solutions. By Design

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