D-FEND SOLUTIONS

EnforceAir C-UAS Deployment Options

RF Cyber-Takeover with Seamless Operational Flexibility

Operational Flexibility for the Most Challenging Environments

Drone threats vary by mission, use case and environment, so D-Fend Solutions' EnforceAir RF cyber takeover-based counter-drone system offers multiple deployment options, providing optimized coverage for a wide variety of scenarios, conditions, and terrains.

EnforceAir provides end-to-end detection and mitigation for situational awareness, operational continuity, and safe controlled outcomes. The system, in autonomous or manual mode, detects, locates and identifies rogue drones in protected airspace and then neutralizes the threat by taking control over the drone and landing it safely in a predefined zone.

EnforceAir2 brings enhanced, expanded, and extended C-UAS capabilities, with even more **power**, **performance**, **portability**, and **range**, all in a **compact footprint**. The system is lightweight and compact, and can be rapidly taken apart, moved, and reassembled in minutes.

EnforceAir Takes Control of the Drone to Take Control of the Threat

- Autonomous system with long-range coverage
- Compact, ruggedized, purpose-built, C-UAS cyber-SDR (Software-Defined Radio) hardware with high-performance antennas and intuitive graphical user interface
- Combined RF detection and decoding technologies with no false alerts
- Operates in noisy and sensitive environments
- Distinguishes between authorized and unauthorized drones
- Lands rogue drones safely at a predefined safe zone, facilitating continuity
- Employs non-jamming, non-kinetic technology that does not require line-of-sight, prioritizing safety end-to-end C-UAS capabilities for any scenario or environment
- Open API for integration with Command & Control systems and complementary detection and mitigation systems within a multi-layer defense
- Best-in-class SWAP (size, weight, and power)
- Quick set-up, locking and release mechanisms for rapid conversion between deployments
- Easy transport with small and light cases

EnforceAir has been tested and proven, with hundreds of deployments worldwide, and thousands of ongoing operational hours.

EnforceAir Deployment Configurations

Military Vehicle

Covert Vehicle

Tactical

Backpack

Stationary

Long-Range Directional

ENFORCEAIR MILITARY VEHICLE

D-Fend Solutions' EnforceAir2 Military Vehicle Kit offers uncompromised mobility and protection on the move for all classes of military vehicles with non-jamming mitigation technology that does not interfere with the vehicle's GPS signals or communications systems.

- Omnidirectional antenna for 360° coverage, for wide area coverage and protection from all directions
- Optional autonomous operations, enabling forces to focus more on their operations while driving in vulnerable areas
- Ruggedized and certified, designed to withstand broad range of environmental conditions
- MIL-STD-810H, MIL-STD-461, IP66 compliant

ENFORCEAIR VEHICLE

D-Fend Solutions' EnforceAir2 Vehicle Kit is a covert mission-critical C-UAS for mobile scenarios, delivering a MOVING BUBBLE OF PROTECTION with fast and accurate detection and controlled, safe mitigation technology that does not interfere with vehicle GPS reception or communications systems nor cause collateral damage.

- Comprehensive coverage with set of five small footprint omnidirectional, magnetic antennas for installation on vehicle's roof, with 360° coverage on the move
- Easily mounted and transferred between different vehicles within minutes, with no need for any tools or vehicle modifications
- Maximum stealth without compromising performance, with seamless transition to tactical, stationary, and man-portable deployments

ENFORCEAIR TACTICAL

D-Fend Solutions' tripod-mounted EnforceAir2 Tactical Kit provides 360° omni coverage for ground forces in urban, rural and sensitive environments. The system can be deployed at ground level, rooftops or elevated terrains to protect against drones flying at both low and high altitudes.

- Long-range coverage, with up to 4.5km detection range and between 1.2-4km mitigation range, with 360° omni coverage
- High-performance antennas, with compact footprint, lightweight, small form factor implementation, and maximum RF coverage (-30°, +30°), above and below the horizon
- Quick and easy set-up, with easy transport
- MIL-STD-810H, MIL-ST-461G, Ingress Protection Rating 66 (IP66)

ENFORCEAIR BACKPACK

D-Fend Solutions' covert Backpack Deployment Kit enables flexible, man-portable, on-the-move protection to support military, law enforcement, and security agencies during tactical and stealth operations, particularly in difficult, hard-to-reach terrains.

- Compact-footprint, ultra-mobile solution, providing the full suite of detection, tracking, identification, and RF-cyber takeover mitigation capabilities
- Optimized range and processing power, no compromise on drone protocols or operator workflow
- Omnidirectional coverage
- Concealed covert antennas for stealth 'under the radar' operations
- SAR standard compliant

ENFORCEAIR STATIONARY

D-Fend Solutions' EnforceAir2 Stationary Kit can be either permanently installed or quickly and effortlessly disassembled and transported to another location for re-installation with full operational flexibility. The Stationary Kit delivers high performance in low and high-altitude installations to detect and mitigate drones.

- Quick and easy installation onto pole mounting, with up to 4.5km detection range and 1.2-4km mitigation range, and 360° omni coverage
- Designed to withstand extreme weather and up to 240km/h wind
- Suitable for Urban and High-Altitude Deployments, covering drones flying in both high and low altitudes
- MIL-STD-810G, MIL-ST-461G, IP66

ENFORCEAIR LONG-RANGE DIRECTIONAL

Certain environments, such as vast expanses that require long-distance coverage like airports and borders, are more challenging and demand specialized capabilities. EnforceAir Long-Range Directional Kit was designed primarily for stationary, long-range coverage deployments.

- Unique sensor solution, protecting spaces such as border lines and approaching and take-off air corridors, often referred to as obstacle limitation surfaces (OLS)
- Ultra-wide band antenna unit, designed for fixed, stationary deployment on a pole, providing 30°- 60° azimuth coverage (RF-band dependent) and 30° elevation, extending the directional coverage range to long distance
- Directional sensor secured to an easy deployment pole installation bracket for the SDR unit and stationary antenna, supporting pole diameter of 60-120mm
- Multi-pin, wide frequency RF cable, connecting the SDR processing unit to the stationary antenna and GPS port
- IP65-compliant ultra-wide band antenna, IP67-compliant WiFi antenna

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For more information, please visit: www.d-fendsolutions.com or contact us at: info@d-fendsolutions.com

REV 01