

A vertical image on the left side of the page shows a city skyline at night. The Chrysler Building is prominent on the left, with its spire and many lit windows. Other skyscrapers are visible in the background. In the upper left corner of this image, a white quadcopter drone is shown in flight, surrounded by a glowing blue circular ring.

# Taking Control of the Drone Threat

---

**Next-gen cyber-driven, multilayer, AI-enhanced counter-drone solutions for sensitive environments**

## Enabling a Drone-Powered Society

Drones are reshaping how modern societies operate, enabling innovation but also creating new risks. As unmanned aerial vehicles (UAVs) become faster, quieter, and harder to detect, a small portion of bad actors and inexperienced operators misuse them to endanger people, facilities, and critical operations.

D-Fend Solutions mitigates this threat, enabling a safe, secure and uninterrupted drone-powered society.

## The Drone Threat

Drones are becoming faster, harder to detect and more durable. Many can fly long distances, carry heavy payloads, and are quite easy to operate, which poses safety and security risks to nearly every type of environment.

Affordable, easy to obtain drones can be used to conduct reconnaissance on soldiers and law enforcement, target critical facilities, smuggle drugs into a prison or across borders, disrupt major events and pose dangers to planes that are taking off and landing.

# Traditional Systems Struggle in Sensitive Scenarios

Traditional technologies have a role to play in a layered defense strategy, though they may be less effective in certain sensitive scenarios.

During detection and identification, radars can be valuable tools, but depending only on radar for detection may mean more false alarms as they can have trouble differentiating between small drones and other flying objects and can be complicated to operate. Acoustic solutions may be ineffective in noisy environments. Optical solutions are ineffective without clear line-of-sight. RF Directional finders have limited accuracy and precision.

For mitigation, jamming-only solutions may be more likely to affect nearby communications or broadcasts. While these approaches can disrupt a drone's control signals in some situations, they do not provide full and sustained control, as an operator may regain access once the jamming ceases. Kinetic counter-drone solutions, which involve shooting down the UAS, are risky in crowded situations, because they can cause collateral damage.

Sensitive environments require a surgical and innovative anti-drone defense, considering severe detection difficulties from tall buildings and other objects, potential collateral damage, fears of disrupting adjacent communication signals and the need to distinguish between authorized and adversarial drones.



False Positives



Requires Clear Line-of-Sight



Signal Disruption



Collateral Damage



Sound Dependency

# EnforceAir: Selected and Proven by the Top Tier

## Global Success

Thousands of successful deployments of EnforceAir counter-unmanned aerial system (C-UAS) performed by top-tier government agencies and at major global events.

## Selected and Proven

Selected as **best-in-class RF-cyber system** & deployed by high-level governmental agencies in defense, homeland security, and law enforcement. Entrusted to protect international airports, critical infrastructure, and large, complex events with tens of thousands of attendees at major stadiums, arenas and open-air venues.

## A Solution for Every Scenario

**D-Fend deals with different drone threats across different environments:**

- Military
- National security
- Law enforcement
- Airports
- Borders
- Ports and harbors
- VIP executive protection
- Maritime operations
- Critical infrastructure
- Enterprise business
- Events
- Stadiums
- Media
- Prisons
- Landmarks and government buildings
- First responders
- Local government
- Safe city

# D-Fend Solutions Counter-Drone Core Concepts



## Control

The best way to **control** the drone threat and ensure **continuity** is to **take control of the drone**



## Safety

A **safe landing** or fend off of the rogue drone is the best possible outcome for **safe airspace and continuity**



## Focus

Counter-drone measures must **focus on the real risk, the most dangerous drones and employ drone** risk analysis, assessment, and prioritization



## Future

The constantly changing and increasingly complex drone threat requires foreseeing the future and **always staying a drone threat ahead**

## EnforceAir Takes Control of the Drone and Takes Control of the Threat

### Safe Landings for Safe Outcomes

D-Fend Solutions' EnforceAir is a high-performance anti-drone system, delivering cyber-driven, non-kinetic, AI-enhanced counter-drone capabilities. Powered by the world's preeminent radio-frequency (RF) cyber takeover technology, EnforceAir overcomes rogue drone challenges across different sectors, environments and use cases. EnforceAir can act as a standalone, multilayer, or integrated system.

EnforceAir provides end-to-end detection and mitigation for situational awareness, operational continuity, and safe controlled outcomes. Operating autonomously or manually, the system detects, accurately locates and identifies rogue drones in protected airspace, then neutralizes threats by executing RF cyber-takeovers, for safe landings and controlled outcomes.

### Key Benefits & Advantages

- Unique capability to mitigate risk by **TAKING CONTROL** of drones
- Land rogue drones safely in a predefined zone
- Employs non-disruptive, non-kinetic technology that does not require line-of-sight
- Distinguishes between authorized and unauthorized drones
- Operates in noisy and sensitive environments
- Advanced, AI-enhanced, autonomous system
- Wide variety of deployment configurations for seamless operational flexibility
- End-to-end C-UAS capabilities for any scenario or environment
- Open API for integration with Command & Control systems and complementary detection and mitigation technologies



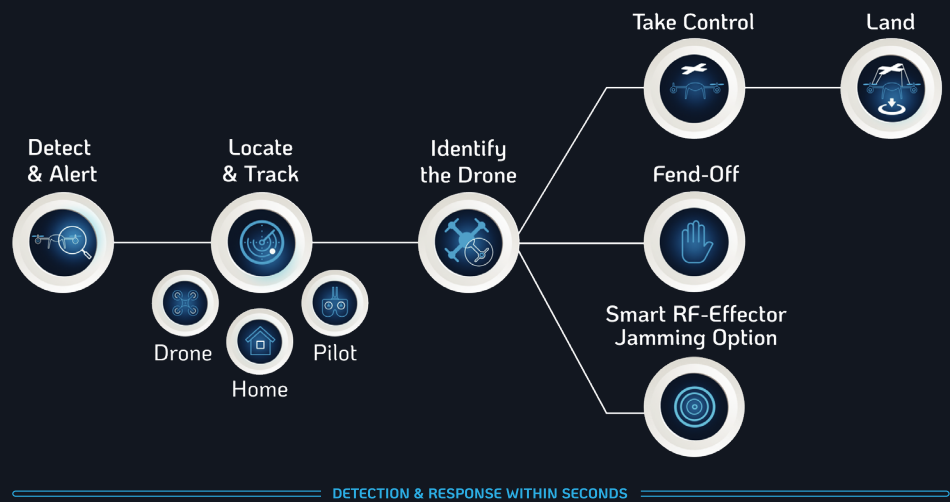
### Preserve Operational Continuity

EnforceAir passively and continuously scans and detects unique communication signals used by commercial drones across multiple frequencies and protocols. It distinguishes between authorized and unauthorized drones in real time and accurately locates and tracks the drone, its pilot/remote controller, and the takeoff position. Authorized drones continue to operate without disruption.

During mitigation, EnforceAir initiates a cyber takeover, ensuring the pilot loses all control of the drone and cannot regain it. The system can either fend off the drone by sending it back to its takeoff position or take full control to safely land it in a predefined safe zone, empowering operators with flexible, safe response options.

Building on the core EnforceAir technology, EnforceAir PLUS integrates auto-calibrated radar detection and an optional smart RF-effector jamming layer, managed by an AI-powered SmartAir fusion engine. This multi-layered approach enhances detection accuracy, expands airspace coverage with 360-degree perimeter security, and enables automated mitigation suggestions tailored to evolving threats.

# EnforceAir Capabilities & Benefits Across the **Drone** Incident Lifecycle



## Detect & Alert

### RF-Cyber

- No false alerts
- Long-distance
- Operates in noisy RF environments
- Passive

### Radar

- Additional coverage beyond cyber
- Optimized with cyber to decrease false positives

## Identify

- Obtains unique drone identifiers, including make, model and serial number
- Determines unique drone communication attributes
- Identifies modified/tampered drones
- Reads remote ID, but not dependent on it
- Distinguishes between authorized and unauthorized drones
- Passive

## Locate & Track

### RF-Cyber

- Real-time location tracking by accurately determining drone position
- Locate and track drone, pilot/remote controller and take-off position
- No need for clear line-of-sight
- Passive

### Radar

- Real-time location tracking for additional drone coverage beyond cyber
- Active

## Fend-Off

### RF-Cyber

- Disconnects drone signal from pilot remote control
- Causes drone to fly back to takeoff position or to act according to original fail-safe configuration
- Surgical fend-off through active RF-Cyber

## Take Control & Land

### RF-Cyber

- Sends drone via safe route, safe landing to pre-defined position
- Defines exact behavior of drone upon takeover
- Prevents pilot from regaining control of drone
- Surgical Takeover
- Active RF Cyber

## Smart RF-Effector Jamming Option

- Blocks signal from pilot remote control
- Causes drone to fly back to takeoff position or to act according to original fail-safe configuration
- Short-range smart RF-effector jamming option for drones in selected area



# Cyber Only or Cyber-Driven Multi-Layer with Radar and Optional Jamming

## EnforceAir2

- Field-proven, high-performance RF cyber takeover with non-kinetic, non-jamming mitigation
- Precise detection and real-time GPS-level location tracking
- Rapid mitigation through surgical cyber takeover and safe landing in predefined zones
- Compact, rugged, and portable with enhanced power and range
- Supports multiple simultaneous drone types including proprietary and DIY protocols
- Preserves operational continuity by avoiding disruption and collateral damage
- Flexible deployment options: tactical, vehicular, stationary, and man-portable
- Continuous software updates against emerging drone threats

## EnforceAir PLUS

- EnforceAir2 features, functions, and capabilities, PLUS
- Cyber-driven, multilayer, AI-enhanced counter-drone system
- Combines RF cyber takeover, auto-calibrated radar detection, and optional smart RF-effector jamming
- AI-powered SmartAir fusion engine for unified sensor data and minimized false positives
- 360-degree perimeter security with multi-drone and swarm detection
- Automated AI-based mitigation suggestions to adapt to evolving threats
- Rapid out-of-the-box deployment with automated calibration and intuitive UI
- Seamless upgrade path for existing EnforceAir2 users
- Designed for diverse operational environments including military, law enforcement, airports, and critical infrastructure

## EnforceAir PLUS Deployment



### Tactical

Tripod-mounted multilayer counter-UAS solution providing 360° omni-directional coverage for operations in urban, rural, and sensitive environments. Provides out-of-the-box integration and automated calibration for rapid, simplified setup and deployment. Cyber-driven, multilayer, AI-enhanced technology enables precise, escalating drone defense.

## EnforceAir2 Deployments & Kits



### Tactical

Suitable for urban and sensitive environments, a lightweight, portable, and easy to assemble system designed to provide 360° omni coverage. Ruggedized and robust, and capable of enduring the full spectrum of weather conditions for ground-level or high-altitude deployments. Complete support for ground forces and law enforcement personnel.



### Vehicle

For sensitive mobile scenarios, a discreet deployment, delivering a moving bubble of protection, without attracting undue attention. The system is easily mounted and transferred between different vehicles within minutes, and simply transitions from mobile to tactical or static deployment.



### Backpack

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.



### Long-Range Directional

Intended primarily for stationary, long-range coverage deployments protecting airports and border airspaces, this kit combines unique technology to enable not only detection, but also safe mitigation of these sensitive areas.



### Stationary

For stationary, 24/7 deployment settings, a dual-purpose setup kit, with an enhanced vertical aperture to detect and mitigate drones that take off from short distances, while also contending with UAVs that approach from above and below the horizon.



### Military Vehicle

Provides protection on the move, with a dual-use setup kit for mobile and static deployments, enabling military personnel to rapidly move EnforceAir onto a tripod when required.



### Maritime Version

Specialized, continuous protection for vessels, ports, and maritime infrastructure. Built for harsh marine conditions, the compact, rugged, salt-resistant system fits any vessel or upper-deck location, operates on low power without cooling, and ensures reliable performance at sea.

## Complex Challenges Require a Multi-Disciplinary Approach

D-Fend Solutions' talented team is comprised of experts with extensive experience in air defense, electronic warfare and cybersecurity, including personnel from elite military intelligence technology units. We attack the most difficult counter-drone challenges with a multi-disciplinary approach that encompasses a diverse set of technologies.

## Additional D-Fend Differentiators

### Cyber-driven C-UAS System

World's first cyber-driven, fully integrated system for a holistic, escalating multilayer C-UAS defense.

### Advanced Proprietary Protocols

EnforceAir supports the most advanced long-range drones, and commercial and proprietary radio (DIY) protocols, with unique ability to reprogram them to fly a new route and land them controllably and securely in a pre-defined safe zone. We target the real threat – the most dangerous drones.

### High Performance

- Ability to handle swarming and massing
- Long-range coverage with 360° perimeter security using omni antennas
- Advanced RF technology and compliance with radio regulations
- Support for both manual and pre-configured autopilot flight modes

### Easy Deployment & Operations

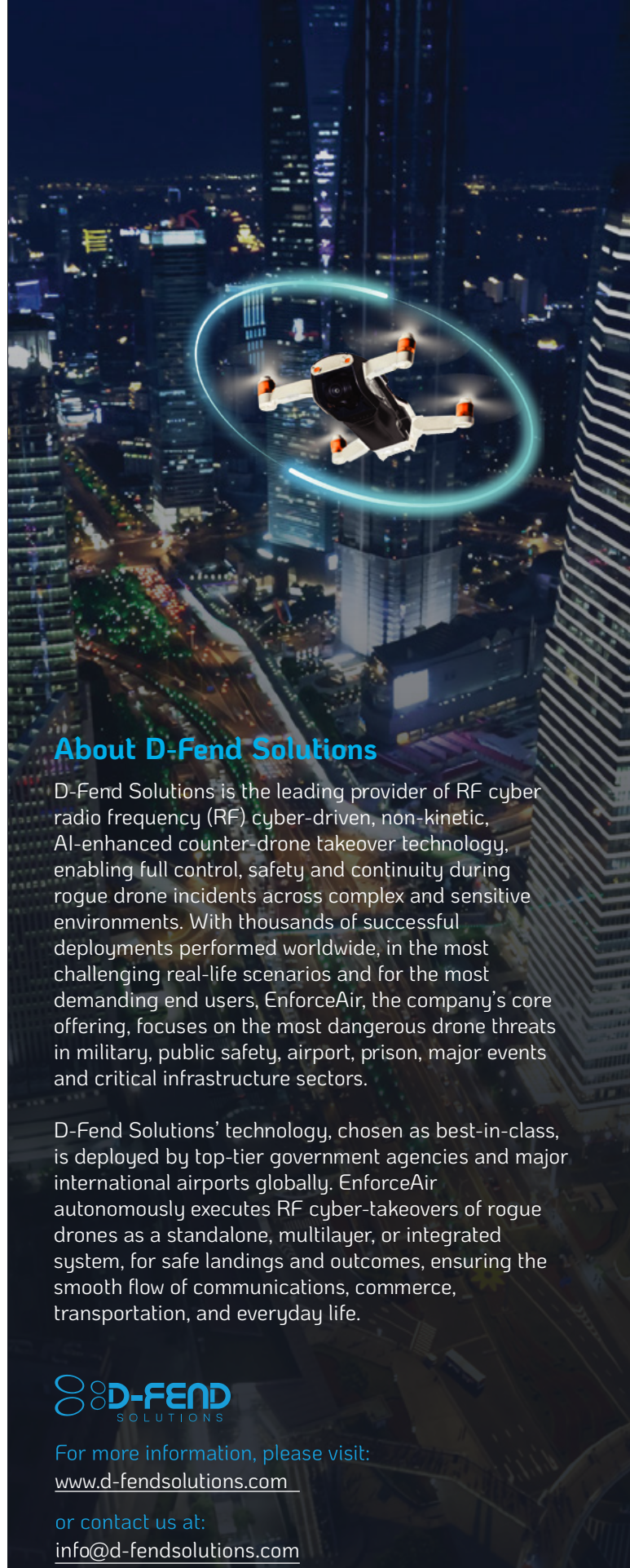
- Autonomous as standalone, multilayer or integrated system with multiple receivers and transmitters, and powerful real-time processing
- Configurable mitigation methods, fend-off, takeover control/land, smart RF-effector jamming option
- Low power and small footprint
- Easy transport, simple handling and set-up

## Future-Ready

### Always A Drone Threat Ahead

D-Fend Solutions is committed to foreseeing future drone threats. We relentlessly develop new capabilities to stay ahead and anticipate even the most unpredictable drone challenges, with an eye to proactively building next-generation, optimal for the coming dangers. Continuous software updates result in an up-to-date response to new drone models and DIY radio components.

D-Fend Solutions takes on this challenge by bringing together all the necessary competencies, employing a robust and experienced research and development group with extensive, cross-domain experience. Our experts possess advanced skillsets, knowledge of best practices and real-world trade craft for counter-drone threat reaction and response.



## About D-Fend Solutions

D-Fend Solutions is the leading provider of RF cyber radio frequency (RF) cyber-driven, non-kinetic, AI-enhanced counter-drone takeover technology, enabling full control, safety and continuity during rogue drone incidents across complex and sensitive environments. With thousands of successful deployments performed worldwide, in the most challenging real-life scenarios and for the most demanding end users, EnforceAir, the company's core offering, focuses on the most dangerous drone threats in military, public safety, airport, prison, major events and critical infrastructure sectors.

D-Fend Solutions' technology, chosen as best-in-class, is deployed by top-tier government agencies and major international airports globally. EnforceAir autonomously executes RF cyber-takeovers of rogue drones as a standalone, multilayer, or integrated system, for safe landings and outcomes, ensuring the smooth flow of communications, commerce, transportation, and everyday life.



For more information, please visit:  
[www.d-fendsolutions.com](http://www.d-fendsolutions.com)

or contact us at:  
[info@d-fendsolutions.com](mailto:info@d-fendsolutions.com)

© 2025 D-Fend Solutions AD Ltd., its logo, brand, EnforceAir product, service, and process names appearing in this issue are the trademarks or service marks of D-Fend Solutions AD Ltd., or its affiliated companies. All information in this document is for general information only, and may be changed without notice. This document contains proprietary information of D-Fend Solutions AD Ltd. or its affiliates.