



COUNTER-DRONE SOLUTIONS FOR CRITICAL INFRASTRUCTURE SECURITY

PROTECTING CRITICAL INFRASTRUCTURE IS CRITICAL

Critical infrastructure assets—including nuclear power plants, power grids, water treatment facilities, transportation networks, communication systems, oil & gas refineries, chemical plants, and manufacturing facilities—are increasingly targeted by hostile drones. These drones can deliver payloads and maneuver with agility within complex or confined environments, making detection and mitigation both urgent and challenging.

Unauthorized drones pose serious risks to critical infrastructure:

- Physical damage to vital assets
- Disruption of essential services and operations
- Loss of public trust and confidence
- Cascading societal and economic impacts, such as widespread power outages, transportation paralysis, and communication failures

THREATS TO CRITICAL INFRASTRUCTURE

- Malicious payload delivery and sabotage
- Covert surveillance and intelligence gathering
- Interference with authorized drone operations and communication networks
- Coordinated drone swarm attacks that overwhelm defenses

THE RF-CYBER ADVANTAGE

D-Fend Solutions' EnforceAir systems deliver a cyber-driven, non-disruptive, and non-kinetic counter-drone defense designed to protect critical infrastructure with surgical precision. This advanced RF cyber-takeover technology prevents collateral damage and avoids interference with vital industrial communications and control networks.

EnforceAir enables infrastructure operators to decisively neutralize unauthorized drones, including those potentially carrying malicious payloads—while precisely detecting and tracking drone takeoff points and remote operators. The system allows authorized drones to continue uninterrupted lawful operations critical for inspections, maintenance, and other essential facility activities.

Building on this foundation, D-Fend Solutions offers purpose-built counter-drone solutions for critical infrastructure protection.

MISSION-CRITICAL SOLUTIONS

EnforceAir2:

- Delivers enhanced, expanded, and extended C-UAS capabilities, offering increased power, performance, portability, and range, all within a compact footprint
- Provides precise detection and mitigation of unauthorized drones through core RF cyber- takeover technology
- Supports flexible deployment options including tactical kits, vehicle-mounted systems, stationary installations, and man-portable backpacks, ideal for dynamic and diverse facility environments
- Enables non-disruptive mitigation that preserves critical communications and authorized drone activities
- Features compact, lightweight, and rapidly deployable hardware optimized for fast reaction in dynamic operational scenarios

EnforceAir PLUS:

- Utilizes the same proven SDR core as EnforceAir2, ensuring consistent, proven RF-cyber takeover capabilities
- Employs a cyber-driven mitigation strategy, prioritizing non-disruptive RF cyber takeover for mitigation
- Integrates radar detection for expanded coverage and improved situational awareness of multiple threat across large, complex, critical infrastructure sites
- Includes optional smart RF-effector jamming for escalated defense beyond cyber
- Features AI-enhanced SmartAir fusion technology for optimized drone identification, tracking, and coordinated layered defense orchestration

MAINTAINING SAFE AND CONTINUOUS OPERATIONS

Unique EnforceAir benefits empower critical infrastructure security teams to:

- Detect and mitigate rogue drones across varied terrain and complex environments
- Take control of unauthorized drones even in dense RF conditions
- Specify authorized drones to ensure uninterrupted site operations
- Deploy flexibly via tactical kits, vehicle mounts, stationary setups, or man-portable backpacks
- Utilize an intuitive, easy-to-use tablet interface designed for rapid operator adoption without specialized technical expertise
- Leverage Multi-Sensor Command & Control (MSC2) for centralized, scalable management, expanded situational awareness, and coordinated multi-site drone defense
- Safeguard communications and infrastructure with cyber-driven, non-disruptive technology
- Maintain operational continuity, safety, and public trust while intercepting evolving drone threats

EnforceAir delivers advanced counter-drone capabilities, empowering critical infrastructure operators with operational continuity, adaptability, and a high capability level in mitigating evolving drone threats without compromising vital communications or essential services.



For more information, please visit: www.d-fendsolutions.com
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