D-Fend Solutions' Long-Range Directional Kit

Special Challenges Require a Long-Range Solution

D-Fend Solutions' flagship counter-drone offering, EnforceAir, is designed for sensitive environments. But certain environments are more challenging than most. For example, vast expanses that require long-distance coverage, such as **airports and borders**, demand specialized capabilities.

Fears of a drone colliding with a plane, or being used for a terror attack, have many airport security teams searching for suitable counter-drone technologies. Securing airports and controlling the risk of another drone-related closure, interruption or terror attack is crucial.

This is difficult, in part because most airports contain multiple airfields and large runways, making comprehensive and holistic counter-drone coverage difficult. Some mitigation methods – such as jamming or kinetic methods – are not suitable for airports, as they may disrupt necessary communication systems, or cause collateral damage.

International border surveillance and protection requires an effective and proven counter-drone solution to detect, track and take over unauthorized drones involved in smuggling contraband, or surveillance.

But protection is notoriously complex – borders are usually long and can be delineated by mountains, shorelines or densely populated urban areas. It is important to note that existing communication signals operating on the same frequency bands (Wi-Fi and point-to-point communications) could be compromised by some types of counter-drone measures.

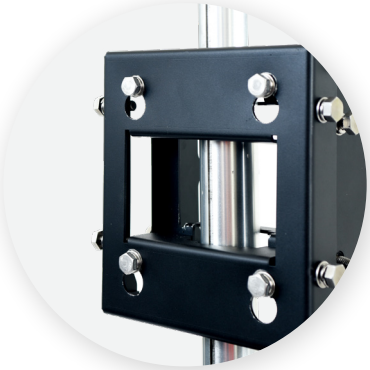
Effective Coverage For Large Area, Including Airports & Borders

Designed primarily for stationary, long-range coverage deployments, such as protecting airports' and borders' airspaces, the EnforceAir **Long-Range Directional kit** provides a unique dual-sensor solution. It protects spaces such as border lines and approaching and take-off air corridors – often referred to as obstacle limitation surfaces (OLS).

This deployment option combines unique technology to enable not only detection, but also safe mitigation of these sensitive areas. The Directional Sensor is secured to an easy deployment pole-installation bracket and designed to withstand extreme environmental conditions.

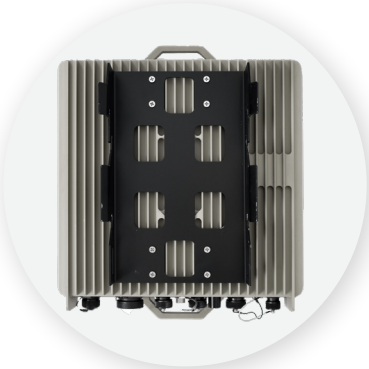
Stationary Antenna

Stationary deployment ultra-wide band antenna unit, designed for fixed deployment on a pole, providing 30° azimuth coverage and 30° elevation, **extending the directional coverage range to long distance.**



Pole Installation Brackets

Pole installation brackets for the SDR unit and stationary antenna. Supporting pole diameter of 50-120mm.



RF Cables Stationary Set

Multi-pin, wide frequency RF cable. It connects the SDR processing unit to the stationary antenna and GPS port.

Operational Flexibility For The Most Challenging Environments

Drone threats vary by mission, use case and environment, so D-Fend Solutions offers multiple deployment options, providing optimized coverage for a wide variety of scenarios, conditions and terrain types, with rapid and easy set-up. Our EnforceAir flagship system can be affixed to vehicles or ships, covertly if necessary, or set up as stationary deployments on low or high ground. The hardware is lightweight and compact, and can be rapidly taken apart, moved and reassembled in minutes.

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