

SIGN4L

D - P R O T E C T



D-Protect is RF Jamming system for counter drone technologies. Ruggedized outdoor system is capable of jamming control and GNSS (global navigation satellite system) signals to neutralize hostile drones.

Designed and built by SIGN4L in the UAE, D-Protect produces powerful RF jamming signals for extended range operations.







KEY FEATURES

- Jams full range of GNSS spectrum.
- Jams drone's command & control channels.
- Option: Spoofs full range of GNSS spectrum to protect a specified area of interest.

SPECIFICATIONS

Operational Bandwidth	400 to 6000 MHz,
	ISM 433MHz-435MHz
	ISM 865-933MHz
	GNSS 1170-1610MHz
Common Threats for Jammer	GNSS 1220-1260MHz
	GNSS 1570-1620MHz
	ISM/WIFI 2400-2485MHz
	ISM/WIFI 5725-5875MHz
Jamming Ratio	2:1 (typical) for command and control signals.
	>10km for GNSS signals
Spoofing Frequency (optional)	GPS L1/L2/L5, Glonass G1/G2, Galileo E1/E5, BeiDou B1/B2
Typical Spoofing Range (optional)	>10km
Total output power	350W
Antennas	High gain directional antennas
Capabilities	Pre-defined active waveforms to efficiently counter drones communication and GNSS signal
Safety	Alarms for VSWR and temperature
Environmental	Design to meet MIL-STD 810G

COMPONENTS

- Indoor equipment installed in 42U rack.
- Outdoor directional antennas installed on a motorized pedestal.

USE CASES

FORWARD-BASE PROTECTION

By deploying D-PROTECT, a forward military base is shielded from attack by unmanned aerial vehicles. The D-PROTECT located at the periphery of the camp provides a dome of protection covering personnel, assets and facilities in a defined area of interest.



CRITICAL INFRASTRUCTURE

UAVs can degrade or destroy critical infrastructure such as power plants, oil & gas facilities, and airports. With D-PROTECT antennas positioned at the boundaries of these facilities, a secure air perimeter is established to prevent UAV disruption of operations.



VIP RESIDENCE

Many attacks begin with aerial reconnaissance conducted by UAVs. By deploying D-PROTECT to protect a VIP residence, security personnel create a wide safety perimeter that prevents surveillance UAVs from collecting valuable data by approaching or overflying the property.





ABOUT SIGN4L

Electronic warfare (EW) systems have become an essential element of the modern battlefield, and SIGN4L is pioneering advanced technologies to secure the electromagnetic spectrum and is developing disruptive solutions to outpace adversaries.

Based in Abu Dhabi, SIGN4L is the leading provider of EW solutions in the UAE and one of only a few in the region with such capabilities.

SIGN4L is part of the Electronic Warfare & Cyber Technologies cluster at EDGE Group.

OUR CAPABILITIES



Electronic deception and concealment



Electronic Protection



Signal and Communication Intelligence



Electronic Support Measures



Intelligence, Surveillance, Target Acquisition and Reconnaissance (ISTAR) sensors



ABOUT EDGE

We live in an accelerating world. Characterised by uncharted frontiers, the future is empowered by advanced technology that is galvanising a new breed of players. At the edge of these frontiers exist no limits – where boundless opportunities await.

Transforming how we live, and ensuring a more secure future, is what we do. We are EDGE; and our mission is simple. To disrupt complacency. To move with speed. And to counter threats.

We will not only revolutionise the defence industry, but we will change its fundamentals. We are the vanguard of the next-generation, of a reimagined sector. We prioritise technology in a non-binary world and seek universal solutions. We work with everyone: big or small, start-up or established, local or global.

We are EDGE. We enable a secure future.

SIGN4L

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