

**SIGN4L**



# D-PROTECT

ATTACKS DISABLED | DEFENCE SECURED

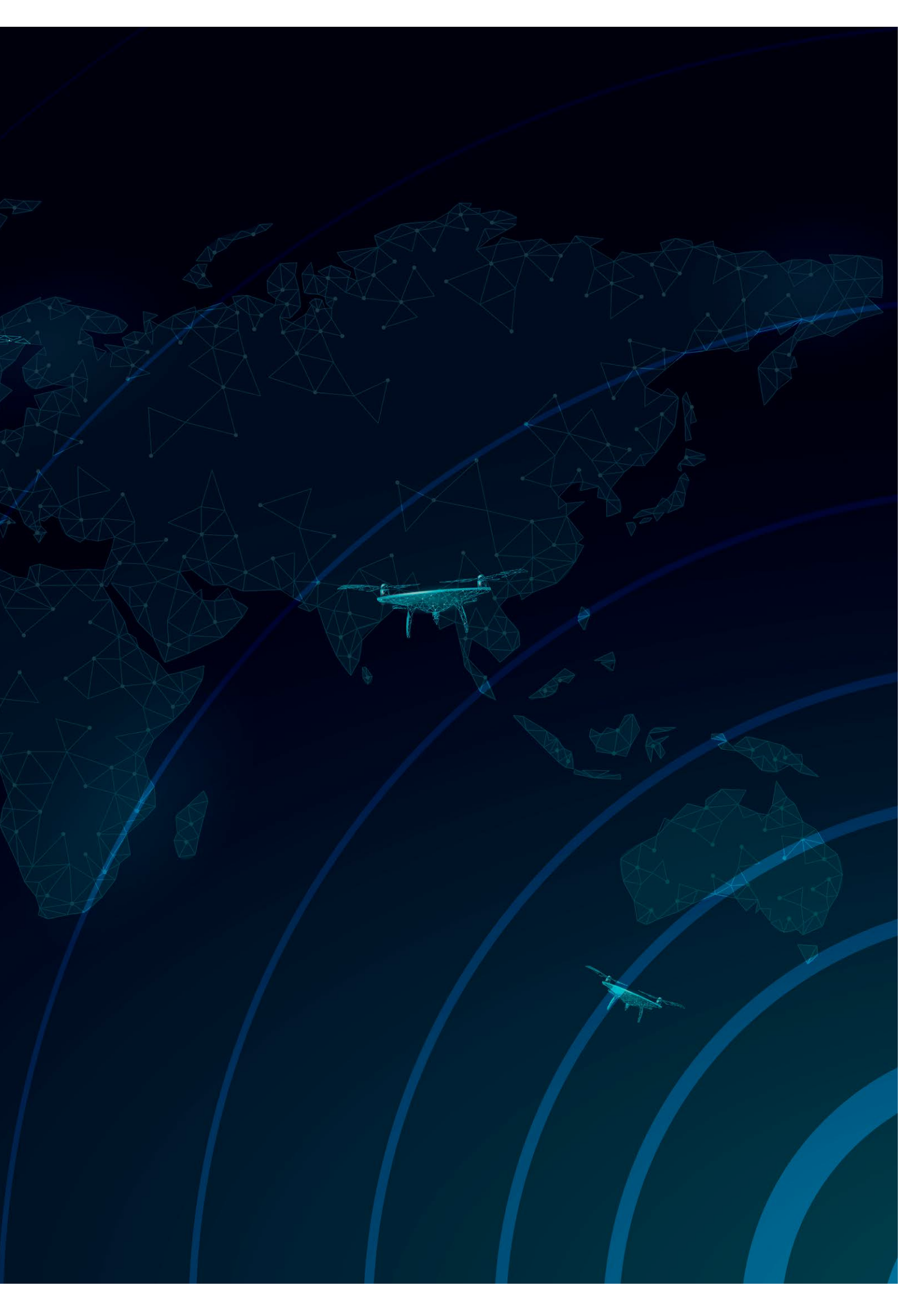


# OVERVIEW



The D-PROTECT is a ruggedised, outdoor counter-UAS system for extended-range operations. Designed and built by SIGN4L in the UAE, the D-PROTECT produces powerful RF signals that interfere and jam GNSS and C2 signals transmitted to a UAS.





## KEY FEATURES

- Jams full range of GNSS spectrum.
- Jams UAS C2 channels.
- Option to spoof a range within the GNSS spectrum to protect an area of interest.

## SPECIFICATIONS

<b>Operational Bandwidth</b>	400 to 6000 MHz
	ISM 433MHz-435MHz
	ISM 865-933MHz
	GNSS 1170-1610MHz
<b>Common Threat Bands and Ranges</b>	GNSS 1220-1260MHz
	GNSS 1570-1620MHz
	ISM/WIFI 2400-2485MHz
	ISM/WIFI 5725-5875MHz
<b>Jamming Ratio</b>	1:2 (typical) for C2 signals
	Up to 10km for GNSS signals.
<b>Spoofing Frequency (optional)</b>	GPS L1C/A, L2C/A. Glonass G1, G2,
<b>Typical Spoofing Range</b>	Up to 10km
<b>Total Power Output</b>	Up to 350W
<b>Antennas</b>	High-gain directional antennas
<b>Capabilities</b>	Pre-defined active waveforms to efficiently counter UAS C2 and GNSS signals
<b>Safety</b>	Alarms for VSWR and temperature
<b>Environmental</b>	Design to meet MIL-STD 810G

## COMPONENTS

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

# USE CASES

## FORWARD OPERATING BASE PROTECTION

The D-PROTECT, deployed at the perimeter of the forward operating base, overpowers and jams GNSS and C2 signals received by a UAS, protecting personnel, assets, and logistical facilities from hostile UAS operations within a 10km radius.



## CRITICAL INFRASTRUCTURE

Critical infrastructure such as remote oil and gas facilities, are at risk of hostile UAS attacks. With D-PROTECT systems positioned on the perimeter, the airspace and facilities are secured from any disruption in operations caused by a UAS.



## VIP RESIDENCE

ISR operations conducted by a UAS collect data that is crucial to planning attacks. With the D-PROTECT deployed on the perimeter of a VIP residence, a hostile UAS is unable to approach or fly over the property, preventing the collection of this valuable data.





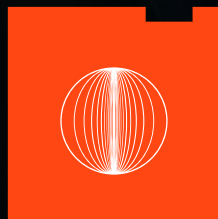
## ABOUT SIGN4L

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**



# EDGE

## 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**

EDGE HQ  
Channel Street  
P.O.Box: 43221  
Abu Dhabi, UAE

[www.sign4l.ae](http://www.sign4l.ae)

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