

**SIGN4L**



**NAVCONTROL-G**

# **ATTACKS DISABLED. DEFENCE SECURED.**

Covert protection against GNSS-guided UAVs



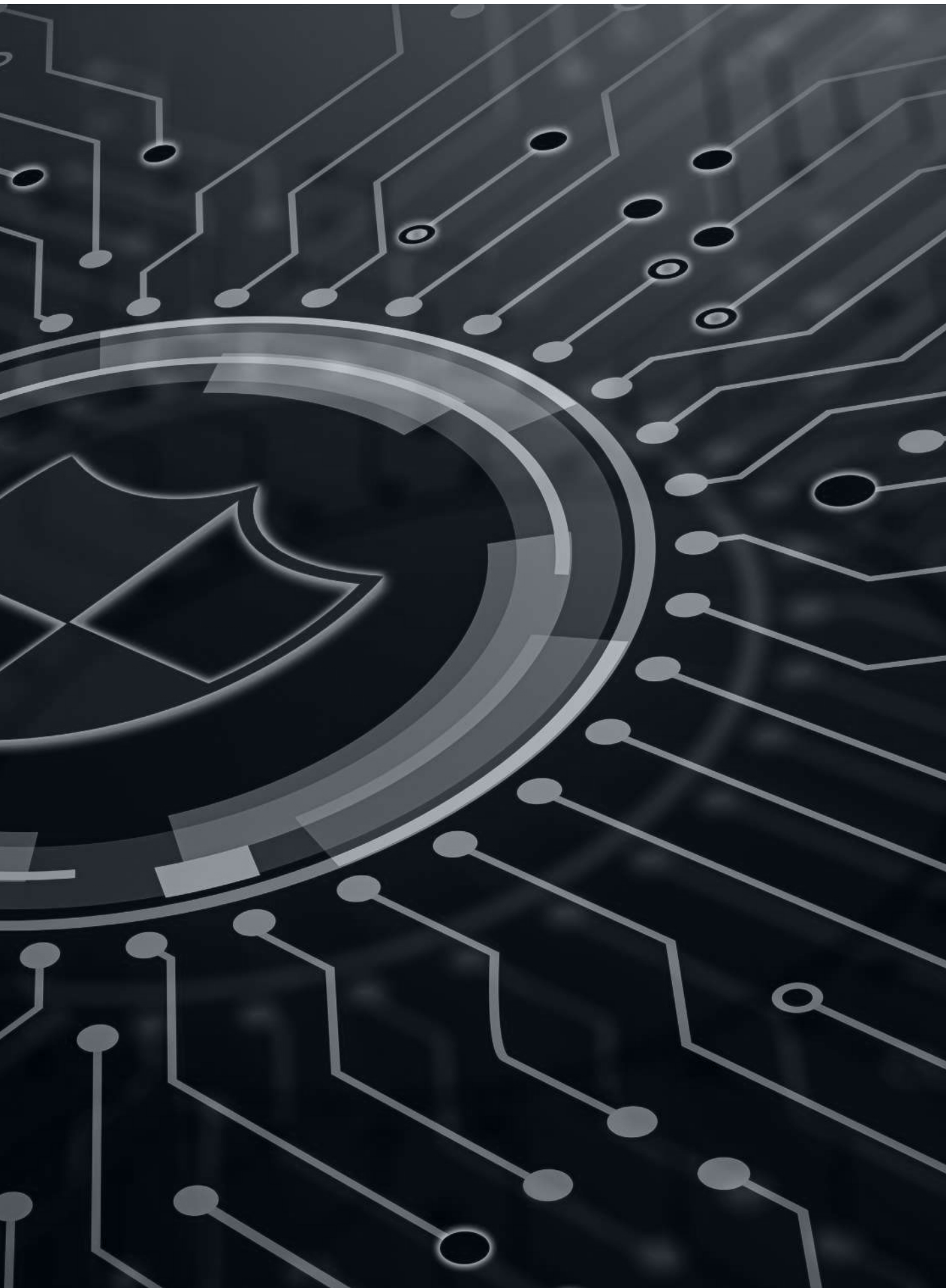
# SOPHISTICATED SPOOFING AND JAMMING TO SECURE AREAS OF INTEREST



The significant threat posed by unmanned aerial vehicles to ground forces, platforms and facilities requires an effective and reliable response. NAVCONTROL-G delivers robust protection from hostile UAVs by deploying sophisticated jamming and spoofing measures against guidance systems relying on global navigation satellite systems (GNSS).

Designed and built in the UAE, NAVCONTROL-G produces covert GNSS denial and emulation signals to safely distance unmanned vehicle threats. With a range of up to 50 km for both spoofing and jamming, the system provides static and dynamic spoofing modes that simulate a contradictory alternative path, thereby protecting areas of interest.





## KEY FEATURES

- Jams full range of GNSS spectrum.
- Spoofs the full range of GNSS spectrum to protect a specified area of interest.
- Combination of jamming and spoofing capability for maximum coverage range.

## SPECIFICATIONS

RF Jamming frequency	GPS L1/L2/L5, Glonass G1/G2, Galileo E1/E5, BeiDou B1/B2
RF Spoofing frequency	GPS L1/L2/L5, Glonass G1/G2, Galileo E1/E5, BeiDou B1/B2
Total Output Power	Up to 400W
Antenna	High gain directional antenna
RF Jamming frequency	Up to 50 km
RF Spoofing frequency	Up to 50 km
Safety	Alarms for VSWR and temperature
Environmental	Designed to meet MIL-STD 810G

# USE CASES

## FORWARD-BASE PROTECTION

By deploying NAVCONTROL-G, a forward military base is shielded from attack by unmanned aerial vehicles. The NAVCONTROL-G 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 NAVCONTROL-G 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 NAVCONTROL-G 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.

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