DESTROY THE KILL CHAIN.

At the human, not the hardware.

Real-time RF targeting from any UAV.

HELICON DEFENSE

A NuvoNexus, LLC company

HOW IT WORKS

Passive RF front-end on the airframe captures emissions across a tunable 5–6 GHz window. **On-board DSP** separates drone-control links and active jammers from clutter. **Direction-of-arrival** is computed in real time and pushed to the autopilot over MAVLink — the operator sees a live bearing cue plus signal strength. UAV stays passive: no emissions to triangulate against.

SYSTEM SPECIFICATIONS

Frequency	5–6 GHz tunable	Power	<6W
Targets	drone-control + jammer emitters	Interface	UART, MAVLink/ArduPilot
Platform	UAV (Group 1–3)	Sensor	passive
Mass	~200g	TRL	8 (field), 6 (US-stack integration)

MISSION USE CASES

UAV-MOUNTED

Primary airborne capability

Group 1–3 UAV host. MAVLink integration over UART. Pilot sees live bearing + signal cue.

VEHICLE-ORGANIC

Tethered or follow drone

HMMWV-class host. Jam-immune fiber tether option. Persistent organic RF DF for ground forces in maneuvering posture.

FOB / DEPOT

Mast-mounted variant

Materiel storage and base perimeter surveillance. Pseudo-altitude via 30–50ft mast. Persistent at lower cost than UAV ops.

TEAM

Founded by US-citizen co-founders, both Nuvotronics alumni. 125+ patents, deep DoD acquisition experience.

COMPLIANCE & CONTROL

ITAR-aware. SAM.gov registration in process; CAGE pending. US-coordinated access through NuvoNexus, LLC. Compliance-aligned with DoD acquisition frameworks.

ENGAGEMENT ASK

NEAR-TERM (2026): Seeking USMC / Army test partnership for UAV-integrated and vehicle-organic RF targeting eval, co-funded at sponsor facility.

STRUCTURAL (FY27): SBIR Phase II / TACFI sponsor for full integration into US UAV stacks.

BATTLEFIELD-PROVEN RF LOCALIZATION · US-COORDINATED VIA NUVONEXUS · DOD-ALIGNED

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