



PRODUCT SHEET

ELVIRA 2D 360° UAS DETECTION







DISCOVER OUR UNIQUE 2D DRONE RADAR

ELVIRA combines smart software with affordable hardware for exceptional awareness, detection, tracking and classification in 2D.

360° COVERAGE

The drone threat can develop in any direction, and that's precisely why this purpose-built 2D drone radar provides 360° coverage. You track all around you, all year round. Day or night.

CLASSIFY WITH CONVICTION

Our micro-doppler classification and deep neural networks (DNN) technology mean ELVIRA can distinguish blades and rotating parts instantly. It's not phased by birds, and even detects fixedwing and hovering drones.

INNOVATION THAT INTEGRATES

ELVIRA makes for simple deployment and integration. With an intuitive API ELVIRA integrates with C2 systems. Your first line of defence, this radar cues a multitude of sensors to verify threats.

PURPOSE-BUILT, AFFORDABLE HARDWARE AND SOFTWARE

ELVIRA combines purpose-built hardware and software for reliable detection and classification. It's built for accuracy, to negotiate any environment and deliver real-time updates in a fast and unpredictable world.

MISSION-PROVEN WORLDWIDE

We're proud to collaborate with 25+ experienced partners and integrators. ELVIRA is missionproven worldwide, supporting military and police forces, political summits, airports, large-scale events, oil rigs and powerplants to tackle the drone threat. \mathbf{O}

robin radar systems

BUILT TO INTEGRATE

With an interoperable interface, ELVIRA slots seamlessly into your tech stack to cue other sensors with precision. You can integrate ELVIRA's tracks and alarms as a layer in your existing security and Command and Control (C2) systems. ELVIRA can also be integrated with other sensors, including high-resolution pan-tilt-zoom (PTZ) cameras for visual confirmation of the target.

ELVIRA SPECIFICATIONS

Technology	FMCW
Frequency	X-Band, 8900 MHz (8800-9075)
	9650 MHz (9525-9775)
Power Output	(continuous) 4 Watt
Instrumented Range	5 km
Main Beam Width	
Azimuth Coverage	
Elevation Coverage	10 ° (-5 ° -to + 17 °, adjustable)
Angular Accuracy'	
Range Accuracy	
Track While Scan	Yes
Scan Speed	1.3s Update Rate
Classification Method	Micro-Doppler
Upmast Dimensions (DxH)	918mm x 1060mm
Upmast Weight (excluding	1 foot) 72kg (159 lb)
Power100-240VA	C, 50-60Hz, 70W nom, 150W max
Communication	Ethernet, 1000Base-T
Ambient Temperature	20°C to +55°C (-4° F - 131° F)
Data Interfaces Available In	cludeAsterix, Sapient
	and proprietary XML-API

DETECTION & CLASSIFICATION RANGES

Drone	Detect. Range*	Class. Range**
Inspire (3kg)	2.7km (1.7 mi)	1.8km <i>(1.1 mi)</i>
Phantom (1kg)	2.2km (1.4 mi)	1.5km (0.9 mi)

 These ranges are indicative of the observed ranges achievable under good sight conditions.

** These ranges are typically achieved under varying circumstances including moderate clutter.

*** ELVIRA requires a processing station and cable to operate. Items sold separately.

TALK TO OUR EXPERTS

DETECTION COVERAGE DIAGRAM

For medium target (3kg)



CLASSIFICATION COVERAGE DIAGRAM

For medium target (3kg)



DRONE VIEWER SOFTWARE





Tel: +31 8 8700 8700 | E-mail: info@robinradar.com | robinradar.com

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