



PRODUCT SHEET

IRIS C-UAS RADAR

CONTACT US



robin
radar systems



DISCOVER OUR SMALL BUT MIGHTY DRONE RADAR

PORTABLE 3D DRONE RADAR WITH 360° COVERAGE
AND AI CLASSIFICATION.

DEPLOY IN UNDER 15 MINUTES

We know, when the stakes are high, every moment counts. That's why we've made it our business to make the setup simple. IRIS can be deployed by a single hands-on operator on tripods, buildings or vehicles in under 15 minutes.

360° COVERAGE IN 3D

IRIS combines 360° coverage with 3D insight to deliver situational awareness and early threat detection. Leading detection meets accurate tracking and classification in a lightweight system of 29kg (64lb) that deploys rapidly. Mission-proven worldwide, expect seamless C2 integration and minimal, autonomous operation.

BUILT TO INTEGRATE

Countering the drone threat takes a system of sensors. We're proud to collaborate with 25+ experienced partners and integrators. IRIS integrates fast, feeding reliable real-time intelligence into C2 command-and-control platforms and multi-layered C-UAS systems.

SMALL RADAR, BIG COVERAGE

With mightily low SWaP (Size, Weight and Power), IRIS combines 360° azimuth, 60° elevation, and a 5km (3.1 mi) instrumented range to give you a 78km² (30.1 mi²) coverage area. In addition, IRIS Long-Range Mode (LRM) offers the option to switch between 5km (3.1 miles) and 12km (7.45 miles) instrumented ranges in minutes.



CLASSIFY WITH CONVICTION

IRIS classifies with precision in real-time. We do it by combining advanced micro-Doppler capability with Deep Neural Network (DNN) technology and proprietary based rules. It results in formidable accuracy and false alarm rates brought to an all-time low. Our model enables users to fine-tune classification sensitivity between range and false alarms.

DRONE RADAR ON-THE-MOVE

Move with the target with our on-the-move (OTM) feature. Mounted to a vehicle, IRIS detects, tracks and classifies while moving at speeds of up to 100 km/h (60 mph). The drone threat can shift rapidly in any direction. Unlike traditional static radars, IRIS keeps up — from hovering to high-speed (100 m/s) drones.



Back-to-back radars allow for 1 second update rate and micro-Doppler classification technology

Choose from four colours:

- White
- Sand Beige
- Bronze Green
- Brun terre de France

IRIS PERFORMANCE SPECIFICATIONS

Technology	FMCW	Instrumented range	5km (3.1mi) / 12km (7.45mi)
Frequency	X-Band, 8900 MHz (8775-9100), 9250 MHz (8975-9300), 9650 MHz (9500-9800)	Power Rating	253W (nominal) / 600W (max.)
Power output	12W	Rotation / Scan Speed	30 rpm / 1s
Classification method	Micro-Doppler, DNN	Elevation coverage	60°
		Elevation accuracy	1°
		Range accuracy	0.6m (2ft)
		Angular accuracy	0.6° - 0.75°

IRIS ENVIRONMENT SPECIFICATIONS

Upmast Size (Dia.xHeight)	550mmx630mm (22 x 25 inch)	Operating temperature	-46°C to +50°C (-51° F to 122° F)
Weight (excl. tripod)	29kg (64lb)	Environmental Testing	STANAG 4370, MIL-STD-810H, NPSA Rated
IP Rating	IP66		

IRIS INTEGRATION SPECIFICATIONS

Package	IRIS Sensor, Robin Processing unit, Interconnect cable, Transportation box (rugged)	Data Interfaces	SAPIENT, XML, ASTERIX, CoT
		Military Grade	C2 systems integration

IRIS DETECTION AND CLASSIFICATION RANGES

NATO	EASA	Weight	Detection Range	Classification Range (Standard)
Class 1 Nano	C0	0.249 kg (0.55 lb)	1,100 m (3,600 ft)	600 m (1,970 ft)
Class 1 Micro	C1	0.9 kg (2.0 lb)	3,100 m (10,170 ft)	1,600 m (5,250 ft)
Class 1 Mini	C2	2.9 kg (6.4 lb)	4,000 m (13,200 ft)	2,700 m (8,860 ft)
Class 1 Small *	NA	52 kg (114.6 lb)	7,600 m (24,940 ft)	5,400 m (17,720 ft)

These ranges are based on real-life testing results and are indicative of performance under typical sight, clutter and weather conditions.

* Fixed Wing, Shahed drone types and others.

TALK TO OUR EXPERTS



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