

EchoShield®

Multi-Mission 4D Radar

Intelligent Search.
Best-in-class Performance.
Next-gen ESA.

Advanced pulse-Doppler cognitive radar.

Ultra-precise ESA beamforming combined with dynamic waveform synthesis to deliver half-degree tracking accuracy.

Micro-Doppler-based object screening enables long-range trustworthy classification.

Powerful cognitive control software allocates radar resources *when* and *where* most effective.

Leverages data from onboard (DTED, street maps, other) and offboard (customer-defined) knowledge repositories.

Full-featured software development kit enables data-rich C2 integration.

Low cost, size, weight, and power (C-SWaP).







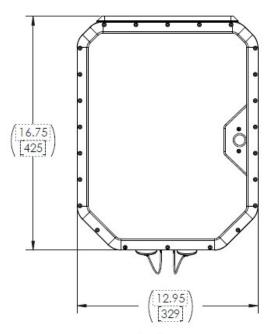


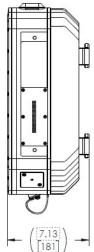




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Multi-Mission Cognitive 4D Radar





Ordering Information

TAN 686A CAMO

700025-200-200

Performance

Instrumented Range 20 km (mission defined)
Field of View 130° azimuth x 90° elevation
Track Accuracy <0.5° azimuth x <0.5° elevation

Frequency (Ku-band / 15.4 - 15.7 GHz Band 1 (RadioNavigation) multi-channel) 15.7 - 16.6 GHz Band 2 (RadioLocation)

Counter-UAS Mission Profile

Scan Volume User configurable

UAS mean tracking ranges

Group 1 (-20 to -10 dBsm) 2.7 km to 4.8 km Group 2 (-10 to -5 dBsm) 4.8 km to 6.4 km Group 3 (-5 to 5 dBsm) 6.4 km to 11.4 km

Maximum Active Tracks

High priority objects >40 Low priority objects >1,000

SWaP and Environmental

Size 42.5 cm x 33 cm x 18 cm

Weight 17.8 kg

Power DC +20 V to +48 V
Operating <250 W (Max duty cycle)

MIL-STD-1275 compatible

Operating Temp -40° C to +65° C Environmental MIL-STD-810 H

Ingress IP66

Integration and Data

Control I/O Gigabit Ethernet

Power I/O MIL-STD_38999 Style Bayonet

Data output ports:

10 Gbps Ethernet Range-Doppler spectrograms

1 Gbps Ethernet Detections

Measurements

Tracks RadarStatus

Mounting 4x M6 200 mm bolt pattern

FCC Identifier

This device has not yet been authorized by the FCC, and there are restrictions on its sale and use until authorization is obtained.