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# **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).











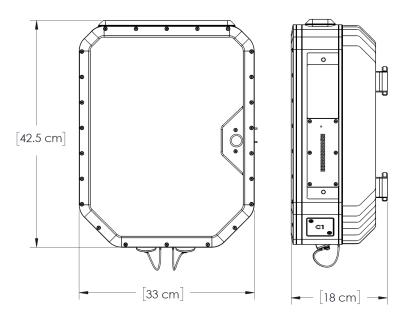


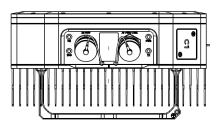


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## **EchoShield**

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 >1,000 Low priority objects

#### SWaP and Environmental

42.5 cm x 33 cm x 18 cm Size

Weight 17.8 kg

Power DC +20 V to +48 V Operating <250 W (Max duty cycle) MIL-STD-1275 compatible

-40° C to +65° C

Operating Temp MIL-STD-810 H Environmental

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

Tracks

1 Gbps Ethernet

Measurements

Detections

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.

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