

# **ST-15R3D** Precise 3D tracking Radar up to 50km

It is designed to detect Nano UAV from 5 km to helicopter from 15 km and pretty much all the rest in between. It's packed with innovative tech and protected according to MIL-STD-810

### Features

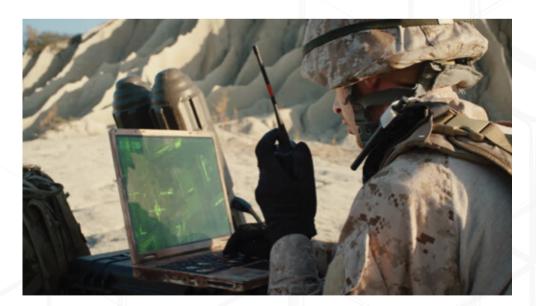
• **SOFTWARE DEFINED**: Coverage prediction , Advanced tracking , Al-powered classification , API enabled.

• JOINT FORCES: Integration with: ECM/C-UAS , APS/VPS , Perimeter security.

• **ST-15R3D Software Defined**: Hi-tech devices need proper software to enhance their capabilities - our 3D radars come equipped with dedicated tools that guarantee robustness, provide reliability and build trust.

The process starts with our Prediction Software which analyzes terrain and presents actionable information on optimum radar setup, locations and detection likelihood. Integrate through API with your C2 platform.

Improve your combat readiness and effectiveness thanks to advanced AI-based tracking and classification algorithms.



## **Technical Specifications**

### DETECTION

Instrumented range		50 km
Minimum detection range		1 m
Maximum detection range		
Nano UAVS,	RCS 0.01 m2	5 km
Pedestrian,	RCS 0.5 m2	7 km
Light vehicle,	RCS 2.0 m2	12 km
Boat,	RCS 5.0 m2	15 km
Low-level helicopter,	RCS 5.0 m2	15 km
Range accuracy		3 m
Range resolution		10 m
Minimum/maximum target altitude		1 m/50 km
Coverage, azimuth/elevation		90°/30°
Frequency		X-Band
Technologies		AESA/MIMO
Tx output power (peak)		24 W
TRACKING AND CLASSIFICATION		
Update rate		4 Hz
Technologies		MHT
Software features included ST-15R3D MIMO radar.	d in every	Computationally efficient Multiple Hypothesis Tracking.Tracker is used to convert single radar detection events into real targets and their motion models (tracks).
		Al-powered target classification combined with

traditional classification techniques.

#### **OPERATIONS AND MAINTENANCE**

Interface protocols
Input power
Power consumption
Dimensions (W x H x D, cm)
Weight
Operation temperatures
Cooling method
Ingress Protection
Enclosure
Mean Time Between Failure
Operational availability

Fault tolerant architecture

IEthernet 24 VDC 265 W

72 x 40 x 17.5 30 kg -40°C - +85°C passive IP 66/IP 67

Rugged, milled aluminium, powder coated.

50 000 hours

99%

Remote monitoring, operational parameters adjustment and restart.

ALL PICTURES SHOWN ARE FOR ILLUSTRATION PURPOSE ONLY. ACTUAL PRODUCT MAY VARY DUE TO PRODUCT ENHANCEMENT



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