



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 , AI-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 in every ST-15R3D MIMO radar.

Computationally efficient Multiple Hypothesis Tracking.Tracker is used to convert single radar detection events into real targets and their motion models (tracks).

AI-powered target classification combined with traditional classification techniques.

OPERATIONS AND MAINTENANCE

Interface protocols	IEthernet
Input power	24 VDC
Power consumption	265 W
Dimensions (W x H x D, cm)	72 x 40 x 17.5
Weight	30 kg
Operation temperatures	-40°C - +85°C
Cooling method	passive
Ingress Protection	IP 66/IP 67
Enclosure	Rugged, milled aluminium, powder coated.
Mean Time Between Failure	50 000 hours
Operational availability	99%
Fault tolerant architecture	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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