

ST-10R3D

Precise 3D tracking Radar up to 30km

It does all the heavy-lifting and has all capabilities which are expected from an innovative and effective 3D AESA/MIMO radar.

Features

- SOFTWARE DEFINED: Coverage prediction, Advanced tracking, Al-powered classification, API enabled.
- JOINT FORCES: Integration with: ECM/C-UAS, APS/VPS, Perimeter security.
- ST-10R3D 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

Minimum detection range

Maximum detection range

Nano UAVS, RCS 0.01 m2

Pedestrian, RCS 0.5 m2

Light vehicle, RCS 2.0 m2

Boat, RCS 5.0 m2

Low-level helicopter, RCS 5.0 m2

Range accuracy

Range resolution

Minimum/maximum target altitude

Coverage, azimuth/elevation

Frequency

Technologies

Tx output power (peak)

30 km

1 m

3 km

5 km

8 km

10 km

10 km

3 m

6 m

1 m/30 km

90°/60°

X-Band

AESA/MIMO

24 W

TRACKING AND CLASSIFICATION

Update rate

Technologies

4 Hz

MHT

Software features included in every ST-10R3D MIMO radar.

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

65 x 36 x 17.5

28 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

