

# DORUK | 3D

3D Surveillance Radar



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### Specifications

#### X-Band Pulse Doppler Radar with Pulse Compression

- Multi-target tracking up to 300 targets
- Simultaneous detection & classification
- Track-while-scan capability
- High accuracy and resolution
- Velocity Detection 2 m/sec to 160 m/sec
- Azimuth Coverage 360°
- Elevation Coverage 55°
- Antenna Technology Slotted Waveguide Antenna with 21 Elevation Beams
- Scanning Rate Up to 30 rpm
- Standards Compliance MIL-STD-810

#### Detection Range

- Small UAV (RCS = 0.01 m<sup>2</sup>) ≤ 6 km
- UAV (RCS = 0.1 m<sup>2</sup>) ≤ 10 km
- Pedestrian ≤ 5 km
- Glider (RCS = 1 m<sup>2</sup>) ≤ 20 km
- Big vehicle (RCS = 1 m<sup>2</sup>) ≤ 20 km
- Aircraft ≤ 28 km

#### Mobile & Flexible

Doruk radars can be installed and used very easily in every environment. Doruk radars can be integrated to any type of vehicle such as car, truck, trailer fast and easy, as their software and hardware interfaces are industry standard.

#### Coastal & Land Border Surveillance

Coastal and Land Border Surveillance Radar Software and Radar Navigation Display is compatible with all map formats, from naval and air traffic control maps to all military and free maps. All inland sea areas and coastal regions will be shown with friend/foe details on map.

Doruk 3D radar detects low RCS slow-moving targets even in strong clutter environments such as rain, snow, desert sand storms and even urban environments.

Doruk 3D is both fully compliant to Vessel Traffic Service (VTS) system radar requirements as defined in IALA Guidelines and also being adapted to ATC (Air Traffic Control) requirements as a mobile air traffic control system with its integrated ADS-B receiver.

Capability to connect thermal/low light cameras, soft kill jammers and hard kill weapons.

