

STELLA

Tracking Radar



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Specifications

- Automatic Target Handover and Tracking
- Detect Multiple Targets Simultaneously
- Flexible Target Handover from 2D/3D Search Radars
- Automatic Target Acquisition, Detection and Tracking
- Detection/Tracking Algorithms Adjustable According to Target Type
- Tracking Algorithms Required for High Hit Accuracy
- Operating Frequency Band X-Band
- Instrumental Range 200 m to 10 km
- Target Velocity 3 m/s – 300 m/s
- Range Accuracy ≤ 1 m
- Elevation Accuracy $< 0,5^\circ$
- Velocity Accuracy ≤ 1 m/s
- Azimuth Coverage 360°
- Elavation Coverage -10° to 80°
- Scanning Rate 120 deg/s
- Standards Compliance MIL-STD-810G
- Target Measurement Update Rate 10 Hz

Detection Range

- UAV (RCS ≤ 0.01 m²) ≤ 6 km
- Small UAV (RCS ≤ 0.001 m²) ≤ 5 km
- Bullets (RCS ≤ 0.0001 m²) ≤ 2.5 km

- Advanced digital signal processing
- Innovative antenna technology
- High-accuracy target position and velocity detection
- Search and tracking modes detects and locks onto targets for precise monitoring
- Integrated with RST Doruk 3D Surveillance Radar, electronic countermeasure systems, electro-optical and weapon systems

