Military Sales Army - Naval - Air Force

Registered Address: Suite G31 Genesis Centre, Innovation Way Stoke on Trent ST6 4BF, UK

Email: info@borecleaningsystems.com Web: https://borecleaningsystems.com Tele: +44 7464 727015





BCS07 radar is a low-altitude surveillance and reconnaissance device operating in the Ku-band frequency range, capable of detecting small, slow-moving targets. This radar employs an Active Electronically Scanned Array (AESA) configuration. It uses a phase-scanning mode in the elevation scan, while mechanical scanning mode in the azimuth to achieve 360° azimuth coverage. The entire system is designed with a modular, all-solid-state approach to ensure equipment reliability. It can replace high cost phase array radar. With 360° mechanical scanning technology, BCS07 can perform all-weather detection of high and low speed

objects. With highly accurate azimuth data, combined with EO/IR cameras, it can automatically track and identify UAVs day and night, and selectively interrupt the downlinks of UAVs with operators. Moreover, adopting CW technology, BCS07 has higher detection efficiency with lower transmission power and less vulnerable to interception.

Features:

360° azimuth mechanical scan, 0-60° elevation frequency scan
All weather detection of mini, low altitude, high/low speed targets
Can detect distance, azimuth, elevation angle and speed
GIS and sea chart fusion into the display interface
Can detect and identify multiple targets selectively and precisely in noise backgrounds
Can work with EO/IR system cameras for visual identification of drones
Can work with RF jammer to neutralize various drones manually or automatically
Multi-beam scan and CW technology, higher detection efficiency, lower power and less interception

Specifications:

Frequency band: Ku Detection range: (Pd=0.9 Pt=10⁻⁶): Mini drone (RCS=0.01m²) 6km RCS=1m² 10km RCS=10m² 14km Range and scope: 0.075 to 30km Detection Azimuth: 0-360° Detection Elevation: 0-60° Scan speed: low/medium/high, adjustable (Sector scanning) 30°, 60°, 90°/s (Omnidirectional scanning)

Antenna

Antenna size: 380*220*0.5mm Antenna gain: >28.5dB E beam width: <14 deg E sidelobe level: <-20dB H beam width: <2° H sidelobe level: <-24dB

Accuracy

Distance accuracy: ≤10m Azimuth accuracy: ≤0.3deg Elevation accuracy: ≤0.5deg

Resolution Distance resolution: ≤15m Azimuth resolution: ≤2deg Elevation resolution: ≤8deg Track mode: TWS Target number: 200 MTBF: ≥2000 hours MTTR: ≤0.36 hours

Continuous work time: 24 hours Power consumption: 280W Radar: 880*510*240mm Weight: 35 kg



Low Altitude

Small RCS

Target

Ultra Slow

Moving Target

