



KURSAD-20A

GROUND SURVEILLANCE RADAR



AGILE AND PORTABLE



CLUTTER
SUPPRESSION



INTELLIGENT
PERCEPTION



TARGET
RECOGNITION



ACCURATE TARGET
LOCATE AND TRACK



REAL-TIME
SURVEILLANCE WITH
ZERO DELAY

KURSAD-20A

GROUND SURVEILLANCE RADAR

GENERAL FEATURES

KURSAD-20A is a Ku-band pulse Doppler radar specifically designed for ground security surveillance, capable of extensive, persistent, and high-sensitivity search and monitoring of ground targets, as well as instant multi-target tracking. It can not only monitor and classify ground personnel and vehicles but also effectively warn against low-altitude drone intrusions. It has many advantages, including high detection accuracy, wide coverage, flexible installation, and the ability to operate at all times and in all weather conditions. The system is lightweight, compact, has a simple structure, and can be quickly installed and dismantled.



- **Micro-target Detection:** Phased array rapid scanning, high data refresh rate, minimum detection speed of 0.2m/s, effectively identifying and detecting low, small, and slow targets.
- **Multi-target Handling:** Active phased array system, capable of tracking up to 256 targets (optional processor enhances target tracking capability).
- **High Precision:** Range accuracy of 3 meters, range resolution of 10 meters; angular measurement accuracy of 0.3°, azimuth resolution of 3°.
- **Environmental Adaptability:** Fully sealed design, excellent wind resistance, dustproof, sand proof, waterproof, and humidity-resistant performance, high reliability, maintenance-free.
- **Easy Deployment:** Uses Ethernet communication interface, integrated design for convenient deployment, simple configuration, and easy operation.
- **Integratability:** Can be set up independently or integrated with multiple devices, supports compatibility with various security monitoring platforms and alarm platforms.

TECHNICAL SPECIFICATIONS

Frequency band	Ku Band	Distance Accuracy/Resolution	3m/10m
Operating system	Azimuth Mechanical scanning, Pitch synchronization	Azimuth Resolution	3°
Azimuth Range	± 45°	Data Refrest Rate	> 10Hz
Pitch Range	8°	Dimensions	≤ 575mm × 282mm × 97mm
Detection range	Drone : > 3 km (RCS=0.01m ²) Human : > 7 km (RCS=0.5m ²) Vehicle : > 15 km (RCS=4m ²)	Weight	≤ 18kg
Speed Resolution	0.2m/s ~ 80m/s	Protection Level	IP66
Minimum Range	90 m	Power Supply	AC220V/50Hz, SC24VDC, ≤ 130W
		Operating temperature	-40°C ~ +65°C