



# 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

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