



Air Surveillance Radar

ASR 216R-1S5K-3D / S band

ASR 216R-1S5K-3D, working in S-band, adopting the digital technology of active phased array system, through the modular, fine design, the integrated use of adaptive moving target detection, digital T/R (transmit/receive), DBF (digital beam forming), analog to digital integration design, with a stable detection performance, high precision, and low cost, is an excellent ground moving target detection radar.

It can accurately give the target's azimuth, distance, altitude, speed and other track information.

It is used for detection, warning and target indication of micro / small civil UAV in key areas such as prison, exhibition and military base.

Features

- High data rate and high positioning accuracy
- Multi-Input Multi-Output (MIMO) system
- All-weather adaptability

Item	Specification
Working system/mode	Phased array system (Azimuth phase sweep)
Working frequency	S band (2.9GHz; 5 operating frequency points)
Detection range	5 km (DJI Phantom 3/4 RCS≈0.01m ²)
Minimum detection range	≤100m
Azimuth coverage	0° ~ 360°
Elevation coverage	0° ~ 40°
Distance accuracy	≤10m
Azimuth accuracy	≤1.0°
Elevation accuracy	≤1.0°
Data rate	Searching : ≤2s
Power Consumption	≤250W
Power supply	AC220V-AC240V
Net weight	≤60kg (with PTZ)
Interface	RJ45, UDP protocol)
Dimension	782mm X 695mm X T200 mm (Antenna) 365 mm X 365mm X H 312 mm (Turntable)
Working temperature & Storage Temperature	-40 °C ~ +55 °C -40 °C ~ +65 °C
Working Environment	Rain-proof; Dust Prevention; Sand-prevention; Moisture- proof, Mold-proof and Salt-proof

