



ACTIVE RADAR SYSTEM

JP-RD10C is an active phased array radar system with no mechanical antenna rotation, capable of 360-degree azimuth coverage for target detection and classification. The active radar system consists of one complete radar unit, it adopts a four sided array radar and a pitch digital beam-forming phase scanning system, which can be used for low altitude target detection and guidance; Capable of detecting multiple types of aircraft such as multi-rotor drones, fixed-wing drones and FPVs.

Real time acquisition of the target's location eg. distance, azimuth,

elevation, longitude, latitude, altitude, direction, speed, motion situation, motion trajectory using an X-Band Radar System capable of high-resolution detection, continuous tracking and accurate target classification under all operational conditions.

The system status and target trajectory information can be sent to 650optoelectronics, command and control through a predetermined output interface protocol to provide guidance for cameras, laser weapon and an anti-UAV aircraft such as an intercept drone. The active radar system is mounted on a vehicle.



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TECHNICAL SPECIFICATIONS

ACTIVE RADAR SYSTEM

System Attribute	Parameter
Frequency	X-band with Micro Doppler
Target Detection	≥ 10Km (RCS:0.01m ²) (Ex: DJI PHANTOM 4)
Azimuth Coverage	360°
Elevation Coverage	0°-90°
Velocity Coverage	0.5m/s-100m/s
Simultaneous Tracking	≥ 40 Targets (continuous and automatic)
Data Rate	Search: 5s, Tracking: 0.5s
Accuracy	Range: 10m, Azimuth: 0.3°, Elevation: 0.3°
Blind Zone	150m
Weight	120kg
Power Supply	24V/220V
Power Consumption	3500W
Dimensions	1032mm × 1032mm × 594mm
Protection Standard	IP65 equivalent to Military Standard (GJB 150A)
Frequency Compliance (EMC/EMI)	GJB151B (equivalent to MIL-STD-461G) (Certified by Manufacturer)
Operating Temperature	-40°C~60°C