RAGINE

Lo-altitude Surveillance Phased Array Radar

R-Eye-100A

R-Eye | R-Shield | R-Warder | R-Glow

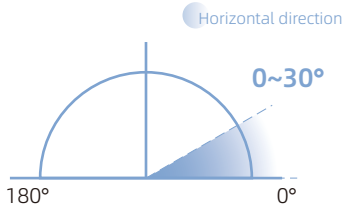
The product employs deep learning technology, exhibiting a reduced reliance on signal-to-noise ratio. It effectively addresses the challenge of detecting small targets in complex environments. It endows the radar with adaptive capabilities to various terrain environments, eliminating the need for parameter adjustments after relocation; it can be powered on directly for searching, ensuring user-friendly operation. Additionally, it breaks through traditional radar methods in particular MTI+MTD, CFAR, and conventional clutter map detection. It excels in high angular accuracy (azimuth and elevation), extremely low false alarm rates, stable trajectory tracking, and adaptability to the maneuvering flight of targets in complex environments like urban areas. The system can autonomously recognize rainy conditions, effectively suppress meteorological clutter, and operate around the clock.

『 KEY BENEFITS 』

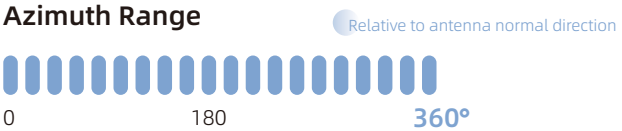
- Precision Detection
- Stable Tracking
- High Adaptability
- Deep Learning

『 TECHNICAL SPECIFICATIONS 』

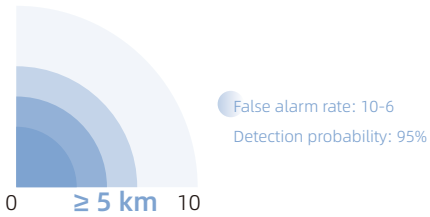
Elevation Range



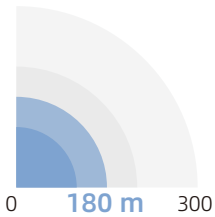
Azimuth Range



Early-warning Detection Range



Minimum Detection Range



Resolution	Azimuth: ≤2.8°; Elevation: ≤7.5°; Range: ≤17 m
Accuracy	Azimuth: ≤ 0.5° (3σ); Elevation: ≤ 0.5° (3σ); Range: ≤ 8 m (3σ)
Power Consumption	Radar Frontend ≤ 220 W Real-time data processing platform ≤ 200 W
Operating Temperature	-40℃ to 55℃
Weight	Radar Frontend ≤ 34 kg Real-time Data Processing Platform ≤ 15 kg
Product Dimensions	Array ≤ 600 mm × 550 mm (including turntable)
Ingress Protection Rating	IP65

『 INDUSTRY APPLICATIONS 』

Security & Counter-terrorism in the Oil & Petrochemical Industry

Security & Counter-terrorism in the Power Industry

Government & Security Agency

Civil Aviation Airport & Logistics Base

Large-Scale Event & Sport Competition

Urban No-Fly Zone Airspace Security

Business & Personal Privacy Protection

More Industry Solutions

MORE

* The data in the product specifications on this page may be subject to change.
Please contact your dedicated account manager for the latest product details.

RAGINE

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