

## ED-GRS Series Integrated Surveillance Radar System

## Introduction

ntegrated Surveillance Radar System is designed to detect and track distant moving targets with a slew-to-cue of camera to radar. This fixed solution provides higher efficiency in target recognition, identification and alarm to threats. It is built to support border security, critical infrastructure protection, police & military mission in perimeter.

Operating in K-band with LFMCW signal and Mechanical Scanning System, it adopts advanced techniques like TWS, MTD, ATR, FD.

This multi-mission system is also built as a mobile defence solution when installed on a trailer, which combines surveillance radar, infrared/visible light camera, electric mast, encrypted communication equipment and battery supply. Outstanding performance with fast setup of warning area, enabling users to make strategic decisions.

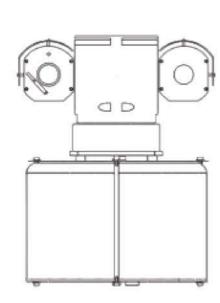




**Specifications** 

*Radar Unit		
Frequency Band	K-band	
Detection Range	≥ 3000m (vehicles)/≥ 1500m (humans)	
Modulation	Linear Frequency Modulation Continuous Wave (LFMC	
Minimum Detectable Velocity	0.3m/s	
False Alarm Rate	1×10 <sup>-6</sup> (or one/day)	
Ranging Accuracy	0.4m	
Angular Accuracy	0.4°	
Scan Rate	30rpm	
Refresh Rate	0.5Hz	
Covering	360°	
Operating Temperature	-40°C ~ +50°C	
Consumption	Typical≤30W/Maximum 50W	
Weight	≤8kg	
Size (D×H)	≤Ø360mm×250mm	
Output Format	TCP/IP Ethernet	
Data Rate	100Mb/s	
IP Rate	IP65	

IP Rate	IP65	
*Camera Option (reference only)		
Humans Readable Range	Daytime 800m/Night 420m	
Resolution	1920×1080 f60	
Minimum Illuminance	Color 0.05lux / Mono 0.01lux	
Field of View	65°~ 2.3°	
Lenses	4.3mm~129mm	
Horizontal Rotation Range	0°~ 360°	
Vertical Rotation Range	-90°~+90°	
Horizontal Rotation Speed	0°~ 80°/s	
Vertical Rotation Speed	0°~ 60°/s	
Working Temperature	-35°C ~ 55°C	
Power	AC24V/2.5A	
IP Rate	IP66	
Weight	≤8kg	
Wiper	Yes	



## **Features**

- Outstanding integrated solution with radar + infrared/visible camera
- User-friendly interface with touching screen
- Continuous 360° surveillance with the coverage
- Target number up to 256 during TWS
- Advanced real-time MTD/tracking algorithm
- Remote control capability based on Ethernet
- System networking available via multiple frequency design
- Easy installation and deployment with high reliability
- Affordable Technology

## **Applications**

- Border Security
- Critical Infrastructure Protection
- Anti-terrorism
- Special Service Guarantee
- Training and Surveillance
- Mobile and Emergency Surveillance