

VERY SHORT-RANGE RADAR



Surveillance radar systems developed by Raddef are fully indigenous, based on state-of-the-art FMCW technology with latest generation e-scan antennas. Radars are designed to achieve high reliability under severe weather conditions with no mechanical wear and tear. These radars are all-in-one fully integrated units comprising power supply, passive electronically scanned array (PESA) antenna, RF front end, radar signal processing, radar data processor with plot extractor and multi-target tracking and user-friendly displays and GUIs. These radars are light weight, hand portable, compact, easy/fast deployable and operates 24/7 with Power-over-Ethernet (PoE) and battery backup. These radars can detect humans (crawling/walking/running), small/large ground vehicles, low altitude drones /aerial vehicles, boats. These are cost-effective solutions for perimeter surveillance of international borders, coasts, airports, large buildings, prisons, and industries to check and monitor intrusions.

FEATURES

- Detects crawlers, walkers and vehicles.
- Extremely low power consumption.
- Highly resistant in severe outdoor installations conditions, with an operation range of -35°C up to +65°C, IP67 rating, and UV resistant materials.
- Low communications bandwidth required (less than 100kbps).
- POE interface
- Durability
- Affordable Cost
- Easy Maintenance
- Flexible & Easy to use
- Lightweight and Low cost GSR suited to fixed installation on masts or towers.
- Improved suppression of ground clutter and low false alarm rates.
- PESA technology is used in fully electronic scanning (E-scan) for Ultra high reliability.
- AI Based target Classification

SPECIFICATION

Frequency of Operation:	Ku-Band
Waveform:	FMCW
Azimuth coverage:	90 deg (Extendable up to 360deg)
Elevation Beam width:	30 deg (Fixed)
Scan type:	Passive Electronically Scanned Array (PESA)
Range:	2.5 km
Transmit Power:	+24 dBm
Target type:	Crawling/Walking person, Small & Large Moving vehicles.
Display:	Sector Display
Number of targets:	Up to 100
Power Supply:	PoE/ AC Mains 230 V

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