



MR360 Light Multifunctional Security Radar



Product Overview

MR360 Light Multifunctional Security Radar is primarily designed for:

Multi-Target Monitoring and Tracking: Capable of continuous wide-area search, identification, and stable tracking of various moving targets, including surface personnel, vehicles, and low-altitude slow-moving small aerial vehicles (e.g., drones).

Impact Point Measurement and Orientation Correction:

Automatically reports target data (position points, movement trajectories, object type). Accurately measures the impact coordinates of projected objects, providing high-precision data for exterior ballistic analysis.

Key Features

- ★ Portable, engineered with a multi-functional, integrated architecture.
- ★ Incorporates multi-modes, composite design.
- ★ Fixed-Area Situational Awareness and Coordinate Positioning.

Technology

This system integrates ground surveillance and low-altitude monitoring capabilities, operating in two modes: stationary stare mode and rotational scan mode. It enables simultaneous search (TWS), tracking (TAS in stare mode), and identification (TAS in stare mode) of ground and low-altitude objects including personnel, trucks, unmanned aerial vehicles, and other moving targets.

- ★ Planar Active Electronically Scanned Array (AESA) technology
- ★ 360° high-speed mechanical rotation with electronic elevation steering
- ★ Fully coherent pulse-Doppler processing
- ★ MTI + MTD + adaptive ground clutter cancellation technology
- ★ Linear Frequency Modulation (LFM) pulse compression
- ★ Composite target recognition technology combining signal and data-level features
- ★ RF Doppler-based simulated target generation
- ★ Real-time online fault detection and diagnostics

Application Advantages

Can be rapidly deployed from a vehicle and is designed to leverage natural terrain features for low-visibility setup, enabling quick commencement of operations in field environments.