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SRP210

Mid-range radar & electro-optic infrared detection solution

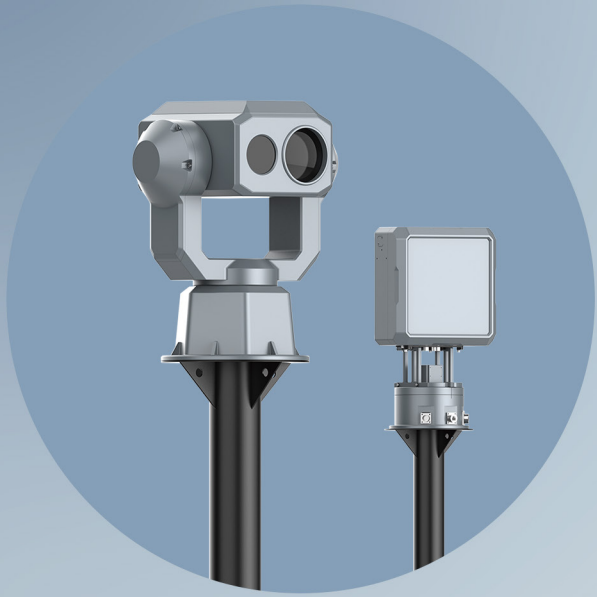
Tracker Eye Pro (SRP210) is an integrated medium-range, low-altitude counter-unmanned aerial vehicle (UAV) system, featuring a 360° mechanically scanned phased array radar and an electro-optical/infrared (EO/IR) device. It provides all-in-one “detection-guidance-identification-tracking” capabilities. The radar enables non-radio-frequency-based omnidirectional long-range target detection and guides the EO/IR module to accurately identify and continuously track targets. With support for visual threat image display, it can efficiently collaborate with various countermeasure systems to execute target neutralization tasks. The system is suitable for long-range low-altitude early warning and protection scenarios in critical areas such as airports, energy facilities, and border regions.



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KEY FEATURES

- **Long-range Detection**
Covers all types of low-altitude UAVs, including FPV drones, loitering munitions, and fiber-optic guided drones. Detection range: 3.5km for small FPV drones, 5km for Micro quadrotor drones.
- **Multi-dimensional Target Recognition**
Capable of identifying various types of targets, including UAV, bird, Commercial airliner, Human, and Vehicle.
- **360° Hemispherical Coverage**
Integrating the detection capabilities of radar and PTZ cameras, it achieves hemispherical airspace coverage with 360° azimuth and 90° elevation.
- **Rapid Target Lock-On**
Automatically locks onto incoming UAV threats within 4 seconds of detection.
- **AI-powered Identification**
Integrates deep learning algorithms with a UAV recognition accuracy of $\geq 98\%$.

PRODUCT FEATURES



**24/7
Continuous
Monitoring**

Combines radar and EO/IR optical detection technologies with complementary strengths, enabling 360° azimuth and 0°–90° elevation coverage for all-weather hemispherical surveillance.



**Intelligent
Threat Level
Assessment**

Based on an AI-powered database, the system evaluates threat levels by integrating alert severity, warning zones, and target attributes, providing reliable support for terminal decision-making.



**High-Precision
Countermeasure
Guidance**

The radar enables full-directional target detection and early warning, guiding the optical module to lock onto targets with angular positioning accuracy better than $<0.03^\circ$, supporting real-time tracking and countermeasure guidance.



**Multi-device
Collaborative
Networking**

Multiple integrated radar and electro-optic infrared detection systems can form a detection network within a C2 system, achieving comprehensive coverage, enhancing monitoring range and detection capabilities. This setup enables devices to collaborate, share information and resources, thereby improving overall monitoring efficiency and accuracy.



SPECIFICATIONS

Radar & EO/IR Specifications

Radar Detection Range	Small FPV drone: 3.5km Mini quadcopter: 5km Large multirotor: 7.3km Large fixed-wing UAV: 10km Commercial airliner: 15km (Full Range) Human: 9.5km Vehicle: 12~15 km	EO/IR Detection & Recognition Range	Small FPV drone: EO 3.5km, IR 1.8km Mini quadcopter: EO 4km, IR 1.8km Large multirotor: EO 6km, IR 2.6km Large fixed-wing UAV: EO 8km, IR 3km Commercial airliner: EO 25km, IR 18km Human: EO 7km, IR 4km Vehicle: EO 10km, IR 6km
Recognizable Targets	Drones, Commercial aircraft, Birds, Humans, Vehicles	Weight	Total weight < 104kg (Radar 14kg, Turntable 10kg, PTZ 80kg)
Field of View	Horizontal: 360°, Elevation: 0°~90°	Dimensions	650*650*900mm (Including the mast)
Speed Range	1~100m/s	Power Consumption	<1500W
Distance Accuracy	7m	Input Voltage	AC 220V
Angular Accuracy	0.03°	Operating Temperature	-35°C~+55°C
Target Lock-On Time	<4s	IP Rating	IP66
AI Target Recognition Accuracy (UAVs)	>98%		

Radar & EO/IR Specifications

Operating Frequency	X-Band, 9.2~9.8GHz	Field of View	Azimuth: 360°; Elevation: 30° (Up to 75° Supported)
Scanning Method	Active Electronically Scanned Array	Target Capacity	Detection(TWS): 500; Tracking(TAS): 6
Waveform Type	Pulse Doppler	Airspace Scan Time	3~6s(configurable)
Effective Signal Bandwidth	15MHz	Target Update Rate	3~6s
Max Antenna Power	128W	Accuracy	Distance: 10m; Speed: 1m/s; Azimuth: 0.5°; Elevation: 0.5°
Blind Zone	≤200m		

PTZ Specifications

DayLight Camera	Sensor	1/1.8"	Thermal Imaging	Detector Type	Uncooled LWIR
	Image resolution	1920*1080(FHD)		Image Resolution	640*512
	Field of view	31.14°*19.4°~-0.56°*0.34°		Field of View	20.56°*15.48°~4.12°*3.11°
	Lens Focal length	F12.3mm-800mm		Lens Focal Length	F30mm-150mm
	Sensitivity	0.002 Lux (Color), 0.0005 Lux (B/W)		NETD	≥40mK
	Continuous Optical Zoom	65X		Continuous Optical Zoom	5X

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AI performance	275 TOPS	Ethernet Interface	3*RJ45
CPU	12-core Arm Cortex-A78AE	Dimensions	371*335*152mm
GPU	2048-core NVIDIA Ampere GPU with 64 Tensor Cores	Weight	12.5kg
Memory	64GB 256-bit DDRS	IP Rating	IP67
Operating System	UBUNTU	Power Supply	220V AC
Supported Devices	1* Tracker Pro DPH100; 1* EO/IR Camera; 1* Hunter F SFL100; 1* Spoofers Pro SSH130		