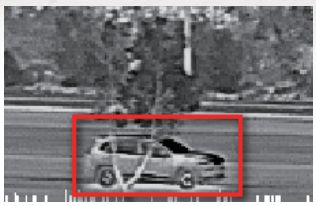
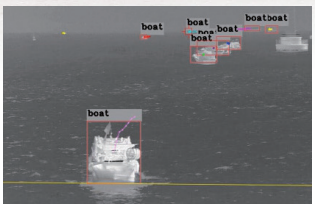
Raythink | Raytron Industrial

SilentW-UM6 Pro Series

Mini Infrared Panoramic Camera

SilentW-UM6 Pro is a compact electro-optical radar designed for passive detection. Featuring a 12 μm uncooled infrared detector with 640 × 512 resolution, it delivers 360° panoramic monitoring with powerful detection capabilities. Lightweight and quick to deploy, it is ideal for temporary security deployments across oil and gas fields, campus security, and critical-site perimeter monitoring.





Industry-Leading Infrared Detector

Powered by the latest 12 μm uncooled infrared detector and advanced infrared imaging algorithms, it delivers clearer images at longer ranges.

Multi-Target Detection

Able to detect and track multiple targets concurrently.

Link with PTZ Camera

Easy calibration, link with dual-spectrum PTZ camera to track the target. Using zoom lens to view more details from long distance.

Compact for Rapid Deployment

Only weighs 2.3kg, easy for deployment.

Intelligent Detection Algorithm

Deep learning AI algorithm to recognize human, vehicle, and ship.

Specifications

Model	SilentW-UM6 Pro	
	Imaging Parameters	
Detector Type	Uncooled VOx FPA	
Spectral Range	8~14μm	
NETD	⩽35mK(@25°C,F#1.0,25Hz)	
Maximum Image Resolution	640×512	
Pixel Pitch	12μm	
Focal Length	19mm	25mm
Image Resolution	9900×512	13000×512
FOV	360°×18.4°	360°×14°
Scanning Speed	2.3s/360°	2.85s/360°
Sector Scanning Speed	1.15s/180°	1.43s/180°
	Pan-Tilt Parameters	
Pan Range	360°	
Tilt Range	+10°~-10°	
Scanning Mode	360° Continuous Scanning / Sector Scanning	
	Network Functions	
Platform Integration	ONVIF/SDK/API	
	Video Parameters	
Image Format	JPEG	
Video Compression Standard	H.264/H.265	
	AI Functions	
AI Recognition	AI Analytics, Human/Vehicle Recognition, Intrusion Detection	
AI Alarm	Supports abnormality detection and alarm linkage for network disconnection, IP conflicts, storage errors, unauthorized access, and sensor burnout warnings	
Alarm Linkage	Recording / Snapshot / Email / PTZ Linkage	
	System Interfaces	
Power Interface	DC 18–36 V (24 V Typical)	
Communication Interface	1 × RJ45 10/100 Mbps Adaptive Ethernet Port	
Storage Interface	Supports MicroSD Card (up to 1 TB)	
	General Specifications	
Operating Temperature & Humidity	-20°C~+50°C	
Ingress Protection	IP66	
Power Consumption	⩽18W@25°C	
Dimensions (W × H × L)	112×116×189mm	
Mounting Method	Base Mount	
Weight	2.3kg	
	AI Detection Range	
Lens Configuration	19mm	25mm
Person (1.8 × 0.5 m)	0.2km	0.26km
Vehicle (1.4 × 4.0 m)	0.6km	0.8km

Applications

Land Perimeter Security

Coastline Perimeter Security

Oil & Gas Pipeline Monitoring

Critical Site Perimeter Security

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*The information is for illustrative purposes only. The pictures and technical specifications are subject to change without notice. Sample No.: G2026-SilentW-UM6-2P001