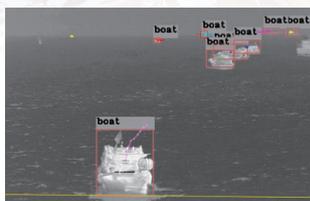




# SilentW-U12 Series

## Infrared Panoramic Camera

SilentW-U12 is a solution for large area monitoring by using a  $12\mu\text{m}$   $1280 \times 1024$  HD thermal detector and capturing  $360^\circ$  panoramic image. SilentW is able to detect multiple objects at same time and can be widely used in nature reserve area, oil/gas fields and mines to make a comprehensive security solution.



### Industry-Leading Infrared Detector

Adopts the latest  $12\mu\text{m}$  uncooled infrared detector or high-performance MWIR cooled detector, and advanced infrared image algorithms to ensure clear imaging at greater distances.

### Multi-Target Detection

Capable of simultaneously detecting&tracking up to 128 targets, detection range up to 8km.

### Intelligent Detection Algorithm

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

### $360^\circ$ Panoramic Monitoring

Detects a full circle in approximately 2 seconds and delivers real-time panoramic video images, enabling comprehensive visual monitoring without blind spots.

### 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.

### Low Power Consumption

Low power consumption, can be powered by solar, reduce the needs of infrastructure.

## Specifications

Technical Specifications		SilentW-U1255	SilentW-U1275
Detector Type		Uncooled	
Detector Resolution		1280×1024	
Focal Length		55mm	75mm
Panoramic Image Resolution		28792×1024	39200×1024
Frame Rate		180°/s	164°/s
Horizontal FOV Range		360°	
Vertical FOV		12.7°	9.4°
Tilt Range		-20°~+35°	
Protection		IP66	
Dimension (mm)		382×260×386	
Weight		20kg	
Work Environment		-40°C ~+ 70°C	
Power		DC 30V 5A	
Power Consumption		< 35W	
Detection Distance	UAV (450mm)	1km	1.5km
	Human(1.7m)	1.5km	2km
	Vehicle (4m)	3km	4km
	Ship (8m)	6km	8km

\*The target detection distance refers to the maximum distance in an ideal environment.

## Application Scenarios



Perimeter Surveillance



Nature Reserve



Oil and Gas Pipelines



Critical Infrastructure Protection

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▪ This manual is illustrative only. Technical specifications are subject to change without prior notice.