



SilentW-U6 Series

Infrared Panoramic Camera

SilentW-U6 is a solution for large area monitoring by using a $12\mu\text{m}$ 640×512 thermal detector and capturing 360° 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° Panoramic Surveillance

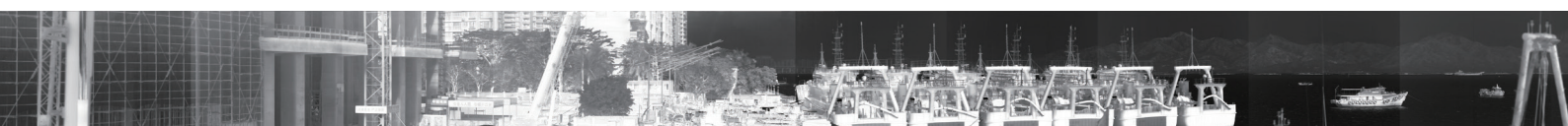
Detects a full circle in approximately 2 seconds and delivers real-time panoramic video images, enabling comprehensive visual monitoring without blind spots.

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-U655	SilentW-U675
Detector Type		Uncooled	
Detector Resolution		640×512	
Focal Length		55mm	75mm
Panoramic Image Resolution		28792×512	39200×512
Frame Rate		180°/s	133°/s
Horizontal FOV Range		360°	
Vertical FOV		6.4°	4.7°
Tilt Range		-20°~+35°	
Protection		IP66	
Dimension (mm)		327×260×377	382×260×386
Weight		17kg	20kg
Work Environment		-40°C ~+ 70°C	
Power		DC 30V 5A	
Power Consumption		< 30W	
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.

