



Detection Range



8 km

System Parameters

Mode	Pulse-Doppler
Azimuth scan	Phase array control
Elevation scan	Phase array control
Frequency	C Band
Duty Cycle	10.5%
Data Rate	≥ 2 Hz
Interface	RJ45 Ethernet
Power	≤ 45 W
Working temp.	$-40^{\circ}\text{C} \sim +55^{\circ}\text{C}$
Net weight	≤ 5.5 kg
IP Level	IP65
Communication Bandwidth	10 MHz
Pulse Compression	8 μ s long pulse with NLFM waveform

XW/SR237-8500C

The **XW/SR237-8500C** radar system comprises a radar array and a dedicated power adapter. Utilizing advanced **MIMO** and **DBF** technologies, it effectively suppresses false alarms caused by clutter. This system is primarily designed for the **detection**, **early warning**, and **target indication** of maritime vessels in both coastal and inland waters. It delivers accurate target tracking data to support situational awareness and decision-making.

Features

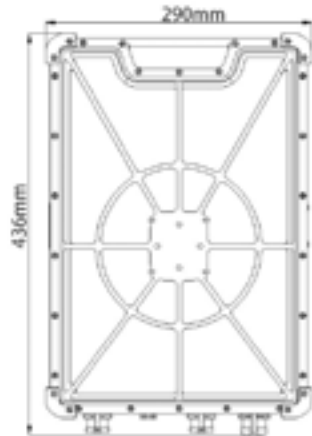
- Real-Time Monitoring**
 Continuously monitors the surrounding environment to promptly detect and respond to abnormal or unexpected activities.
- Fast-Moving Target Tracking**
 Features a high data refresh rate, enabling stable and continuous tracking of rapidly moving targets with high accuracy.
- Wide Area Coverage**
 Capable of monitoring large regions. Multiple radar units can be deployed in array formations to further extend the coverage, ensuring seamless surveillance of both offshore and inland zones.
- Simple Installation**
 Designed for easy deployment on existing infrastructure such as lamp posts or other standard mounting structures, reducing installation complexity and cost.
- All-Weather Operation**
 Engineered for 24/7 performance under harsh environmental conditions, including nighttime, rain, snow, fog, haze, and dust.

Coverage and Accuracy

	Coverage	Accuracy
Azimuth ($^{\circ}$)	90	0.5
Elevation ($^{\circ}$)	9	-
Distance (m)	100-8,500 ¹	8
Speed (m/s)	0.5-30.0	0.2

¹ Default setting, can be adjusted based on user requirements.

Dimension



User Case



Secure your perimeter with Lakeda Radar.

Contact us today for customized solutions.

You can reach us by [Email](mailto:po@lakedaradar.com) or on [WhatsApp](https://lakedaradar.com) — we'd love to hear from you.

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