

C4i **communication**

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YOUR SECURITY & SAFETY PRODUCTS

C4IWAVE S08-L PERIMETER SURVEILLANCE RADAR



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Perimeter Surveillance Radar

C4iwave S08-L is a Ku-band pulse doppler radar specially used in ground security monitoring. It has the ability to carry out large-area, long-lasting, high-density search and monitoring of ground targets and instantaneous multi-target tracking. It adopts a customized AI algorithm, not only it can monitor and classify ground personnel and vehicle targets, and it can also effectively warn low-altitude drone intrusion. With high detection accuracy and coverage wide, high installation flexibility, all-time, all-weather work and many other advantages.

AI intelligence

Electronic phase scanning, autonomous positioning and orientation, ground and low-altitude target classification, excellent ground clutter suppression signal processing algorithm

Environmental adaptability

Fully sealed design, excellent performance such as wind resistance, salt spray resistance, rain resistance, damp heat resistance, high reliability, and maintenance-free

Small target detection

Phased array rapid scanning, high data refresh rate, minimum detection speed 0.5m/s, effective identification and detection of low, small and slow targets

Easy to deploy

Using Ethernet communication interface, integrated design, easy to deploy, simple to configure, and easy to operate

Multi-target processing

Active phased array system, with 0~256 batches of multi-target tracking capabilities (optional processor to enhance target tracking capabilities)

Integration

It can be installed separately or integrated with multiple devices, supporting compatibility to various security monitoring platforms and alarm platforms

High precision

Distance accuracy is 3m, distance resolution is 10m; angle measurement accuracy is 0.8°, azimuth resolution is 6°

Expansibility

Support 360° scanning & detection by using multi-array mode or rotary table

APPLICATION SCENARIOS



Oil and gas field



Mine



Chemical industrial park



Infrastructure



TECHNICAL DATE

| Product type | | C4iwave S08-L |
|--------------------------------|---|---|
| Operating Frequency | | Ku |
| Power Transmitted | | 4.8-6.4W |
| Azimuth Range | | ±45° |
| Pitch Range | | 8° (machinery ±10°, adjustable) |
| Velocity Measurement Range | | 0.5m/s-80m/s(radial direction) |
| Min.Operating Distance | | 90m |
| Distance Precision | | 3m |
| Azimuth Angular Precision | | 0.8° |
| Typical Target Detection Range | UAV (RCS 0.01m ²) | 500m |
| | Walking person (RCS 0.5m ²) | 2km |
| | Small vehicle (RCS 4m ²) | 5-6km |
| Velocity Resolution | | 0.2m/s |
| Distance Resolution | | 10m |
| Azimuth resolution | | 6° |
| Data Refreshing Rate | | 10Hz(maximum) |
| Power Supply | | AC 220V±22V, 50Hz±5HzStorage batteryDC 24V±2.4V |
| Overall Power Consumption | | <105W |
| Dimension | | 575mm×282mm×84.5mm |
| Weight | | <15kg |
| Ingress protection | | IP66 |
| Communication Interface | | Network interface |
| Operating Temperature Range | | -40°C~+65°C |

