Chemical Agent Detection

Overview & Product Guide

In the Chemical Agent Detection scenario, we offer handheld, wearable, and mobile-platform products for rapid, high-sensitivity detection of chemical agents, hydrogen gas, and temperature.

Based on Surface Acoustic Wave (SAW) technology, all products provide passive, intrinsically safe detection and flexible deployment on drones, robots, vehicles, or by hand.

Standard API interfaces enable multi-node networking, remote data transmission, and quick integration with existing platforms, supporting collaborative, multi-point monitoring. This creates a comprehensive early-warning network for chemical safety, delivering rapid response and seamless system integration in complex environments.

LPS400Z:

- Ultra-long-range detection and identification: Maximum luminous intensity exceeds 400 million candelas, with an illumination distance up to 40 km, ensuring long-range detection and identification.
- Precision targeting support: Adjustable beam angle from 0.05°–2.86°; narrow beams enable precise positioning, while wide beams allow area scanning.
- Directional electro-optical suppression: High-brightness green laser interferes with UAV optical systems, suppressing image transmission and navigation capabilities.
- Acoustic-optical collaborative countermeasure: Supports integration with acoustic, RF, and other systems to build a unified detection–positioning–countermeasure framework.
- Lightweight and easy to deploy: Weighing only 2.5 kg with a compact design and low power consumption, it is easily integrated into UAVs, unmanned vehicles, and other platforms.

RU122X:

- Accurate detection and identification: Utilizes passive acoustic technology for covert detection with minimal exposure risk.
- Flexible deployment: Lightweight design supports tripod or portable use, adaptable to urban, rural, and field perception.
- Efficient integration: Equipped with Gigabit Ethernet, PoE, and optional wireless interfaces, supporting multi-node networking and integration with existing air defense systems.
- Intuitive situational perception: Generates real-time acoustic images and dynamically overlays sound source locations on optical or map backgrounds for enhanced situational awareness.

RU20X:

- Accurate detection and identification: Utilizes passive acoustic technology for covert detection with minimal exposure risk.
- Comprehensive coverage: Detection range up to 500 meters with full 360° monitoring and no blind spots.
- Flexible deployment and adaptability: Lightweight design supports tripod or vehicle-mounted deployment, adaptable to urban and field environments with excellent mobility and terrain adaptability.
- Efficient integration: Equipped with Gigabit Ethernet, PoE, and optional wireless interfaces, supporting multi-node networking and integration with existing air defense systems.

RD500

Type	4
Accuracy %	≥90
Duration s	≤20

RD500 is a chemical reagent detection device based on Surface Acoustic Wave (SAW) technology, integrating simultaneous detection of four typical chemical warfare agents.It features ultra-fast response speed and high sensitivity, suitable for handheld, wearable, and integrated deployment on UAVs, robots, and other platforms.

RD160

Scope vol.%	0～40
Type	PWM
weight kg	794

RD160 Hydrogen Detection Device adopts SAW technology, featuring high safety, maintenance-free design, and wide-range hydrogen concentration measurement.It provides PWM output signals for easy integration into terminal systems.

RD50

Range ℃	-25～125
Accuracy ℃	±2
Frequency s	1～10

RD50 is a passive wireless temperature measurement system based on SAW technology, characterized by ultra-high safety, long lifespan, and maintenance-free operation.The system supports flexible deployment, features wide temperature measurement range and high precision, and can be integrated into existing industrial automation systems.

Sound the Victory Horn

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