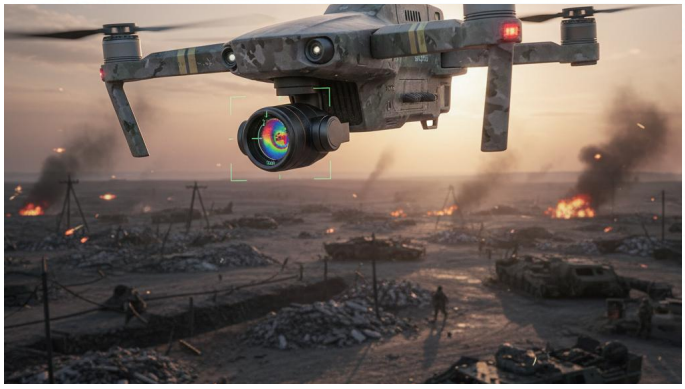
# C-UAS
## with Microphone Array

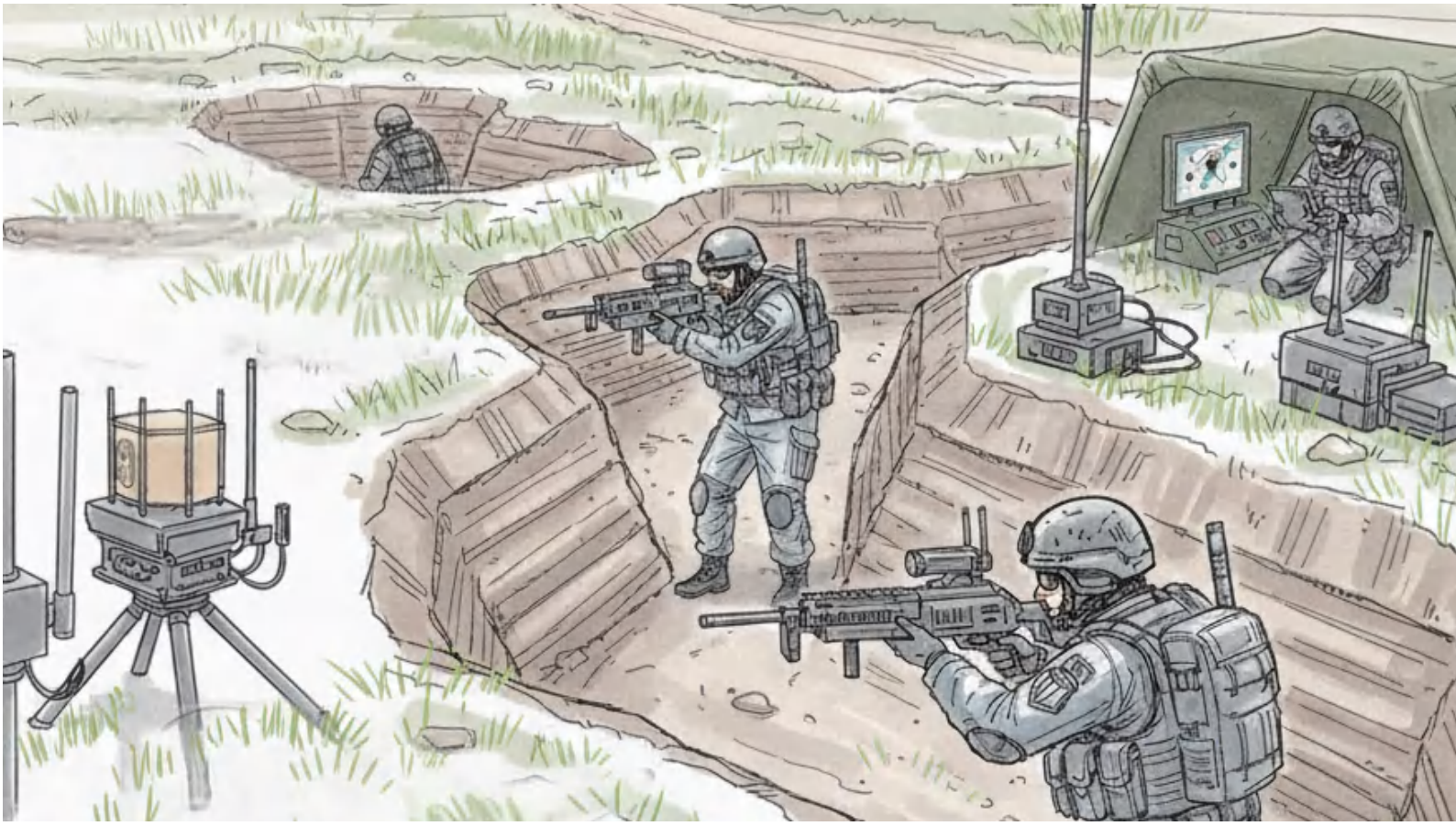
Overview & Product Guide



In the C-UAS with Microphone Array application scenario, we have developed a series of UAV detection and localization products in various configurations.

This system is based on passive acoustic detection technology, which captures the acoustic signatures of drones through a microphone array to achieve effective UAV detection. It demonstrates strong adaptability to complex environments such as urban areas and mountainous regions, and can operate effectively even in conditions with visual obstructions or severe radio-frequency interference.

All products in the series can be flexibly deployed regardless of terrain limitations. Through multi-node networking and data fusion, the system enables large-scale networked detection, and can be quickly integrated into existing air defense systems via standard API interfaces, building a multi-dimensional, comprehensive detection capability that delivers all-around, high-efficiency aerial situational awareness and early warning.



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:

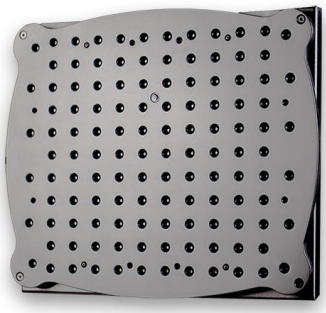
- Accurate detection and identification: Utilizes passive acoustic technology for covert detection with minimal exposure risk.
- Comprehensive coverage: Detection range up to 500 meters with full 360° monitoring and no blind spots.
- Flexible deployment and adaptability: Lightweight design supports tripod 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.

# RU122X

| | |
|---|---|
| Distance m | ≥500 |
| Probability % | 95 |
| FAR | ≤1 |

The RU122X UAV Detection System utilizes a high-performance microphone array to achieve passive detection, identification, classification, and localization of UAVs characterized by low-altitude, slow-spee flight, and small size.

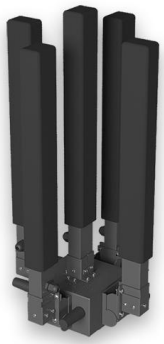
It supports real-time displa of the acoustic source position over optical or map backgroun in the control software interface.



# RU20X

| | |
|---|---|
| Distance m | ≥500 |
| Probability % | 95 |
| FAR | ≤1 |

RU20X UAV Detection System utilizes a high-performance microphone array, enabling 360° passive acoustic detection, recognition, classification, and localization of of UAVs characterized by low-altitude, slow-speed flight, and small size based on their acoustic signatures.



# LPS400Z

| | |
|---|---|
| Output cd | 405382616 |
| Angle ° | 0.5-2.86 |
| Range m | 40268 |

LPS400Z adopts a high-pov er semiconductor laser with maximum luminous intensi exceeding 400 million candela. It is designed for long-range ill mination warning, professior detection, airport bird dete rence, and ultra-long-distan green laser auxiliary lighti applications

Sound the Victory Horn

**Beijing Ribri Technology Co., Ltd.**

Add: 7-408, Federal International,
No. 5 Disheng Middle Road,
Yizhuang, Beijing, P.R.China

Tel: +86 13911896601

Email: market@ribri.com

Billy Whatsapp

www.ribri.com