



Ultra Wave Plus

Mobile Rapid Deployment Alarm System

Introduction and Technical Information

September, 2023

1. Mobile Rapid Deployment Alarm System Introduction



Transmitter, Receiver and Tripod



Portable wireless remote sensing control terminal

Ultra Wave Plus mobile rapid deployment system is used for radar vehicles, special vehicles performing missions in the field, or other areas where temporary warnings need to be established. The mobile rapid deployment guard system can be used for rapid intrusion protection deployment, and the alarm information can be transmitted to the local or remote control center to realize the detection of intruders. real-time detection.

Ultra Wave Plus mobile rapid deployment system comes with its own power supply and signals are transmitted wirelessly. The entire system is small in size and weight and can be quickly deployed in harsh environments without wiring. Multiple sets of equipment can be combined to form a three-dimensional, closed protective area.

Each rapid deployment security system mainly consists of Senstar's UltraWave, a pair of tripods, the lithium battery pack, and an integrated wireless transmission module. Each system's microwave transmission consists of one transmitter device and one receiver device, forming an invisible spindle-shaped microwave detection field. The system's built-in algorithm can detect intruders from the background environment when they are walking, running or crawling. It can effectively detect intruders no matter day or night, and is not affected by weather conditions, and can effectively distinguish intrusion targets and environmental influences.



Each device is powered by a separate battery pack and can run stably for 30 hours. The alarm signal of the system can not only control the sound and light alarm of the device itself, but also transmit the alarm signal to the central control room (unobstructed 2000m) through the integrated wireless transmission module, and integrate with the perimeter intrusion alarm system to link cameras, alarms, lights and warning speakers.

System Advantages

➤ **Rapid Deployment**

When performing tasks in the field, you only need to unpack the tripod, install the microwave and camera (optional), turn on the power, and visually align it. The system can be quickly deployed without further tuning.

➤ **Quick Disarm**

Contrary to the rapid deployment sequence, when quickly disarming, you only need to power off the device and pack it into the box.

➤ **System Maintenance**

The system itself does not require excessive maintenance. You only need to charge the lithium battery pack (and backup battery pack) regularly to ensure the normal operation of the system.

2. Mobile Rapid Deployment Alarm System Technical Specification

Main Features

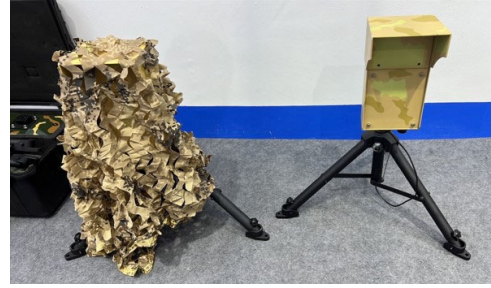
Detection Range :

- Walking Target : 5 to 200 m
- Crawling Target : 5 to 150 m
- Crawling Forward : 5 to 100 m

Detection Performance: Greater than 99% when installed correctly

Wireless Control Terminal: Receiving distance in open area \geq 2000m

Clearance requirements: Clearance width is 4% of the space between the transmitter and receiver, clear of all grass, plants and other obstacles



Physical Specification:

- Weight: Both the transmitting unit and the receiving unit are 0.9kg
- Installation: A tripod mounting kit is provided with the device
- Detector shell: high-density ABS plastic
- Tripod: aluminum alloy

Environment Specification:

- Temperature : -40 to 70°C
- Humidity : 0 至 95% No Condensation
- Conformal Coating: PCB

Electrical Specification:

- System standby time: 30 hours
- Detector power supply: 12V lithium battery pack
- Wireless control terminal power supply: 5VDC~24VDC
- Standby: 30 hours
- Power supply: 12V or 24V lithium battery pack

Wireless control terminal relay output:

- 4-way C-type relay output, 1.0A, 30VDC

Microwave detector frequency:

- 24.075 to 24.175GHz band, a total of 10 optional channels

Wireless transmission module frequency:

- 2.4 GHz band