OPTOSKY Spectroscopy Solutions

Datasheet

2D life detector radar	AT-TWR-2D-LD

Features

- Intelligent search, the AT-TWR-2D-LD radar life detector can quickly and accurately identify survivors and support search and rescue work.
- Simple to use, the user-selectable graphical interface uses icons to indicate detected motion and respiration. Search and rescue crews become proficient at operating radar life detectors within hours.
- Small and portable, the AT-TWR-2D-LD radar life detector is small and portable, and can be used by a single person.

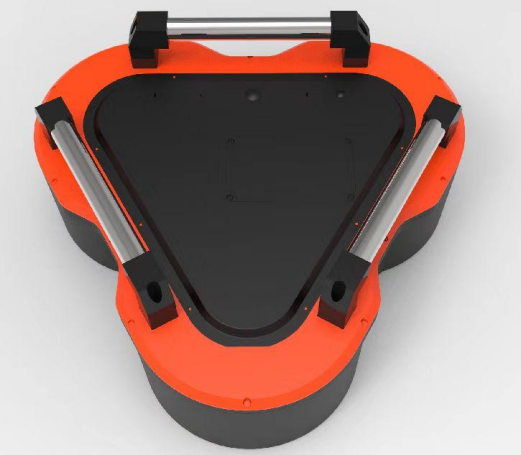
Application

- Earthquake relief
- Rescue after mine disaster
- Tunnel Disaster Rescue
- fire rescue

Description

The hours following a natural disaster are critical to deploying personnel to field work as quickly as possible. The first hour is especially critical for search and rescue teams tasked with locating survivors under the rubble.

AT-TWR-2D-LD is a radar life detector based on the most advanced technology. It is light, strong and durable.It is widely used in search and rescue operations of people trapped under natural or artificial ruins caused by structural collapse when disasters such as earthquakes, floods, and explosions occur.



1503 Bld. A04, 3rd Software Park, Jimei, Xiamen, 361005, China
Tel: +86-592-6102588

1.Technical advantages

AT-TWR-2D-LD radar life detector uses the most advanced ultra-wideband radar technology, special step frequency waveform synthesis technology, and efficient and robust signal processing algorithm, so it has excellent penetration and resolution capabilities, and can It is very reliable to detect the existence of the target and measure its distance in the dense and strong clutter environment, which greatly improves the possibility of saving lives under the ruins in natural disasters. The AT-TWR-2D-LD Radar Life Detector is an ideal search and rescue tool capable of locating survivors by sensing tiny movements caused by faint breathing. The host transmits the detected signal to the panel in real time. The detection information enables search and rescue personnel to quickly and accurately determine the distance of survivors. An important advantage of UWB technology is that it will not be misled by the wafting or weakening of the smell. It does not require line-of-sight or total silence, which poses serious challenges to video and audio search and rescue tools. Easy mobility and ease of release on hazardous surfaces further enhance the system's field effectiveness.

2.How to use

It is very simple and easy to use the AT-TWR-2D-LD radar life detector, the following is the basic method of use.

1. Establish the grid of the search area
2. Place the host on the ground/ruins
3. In the simple operation mode, if the host detects a life signal, a red circle or a black box will be displayed on the tablet
4. There are distance and angle indicators on the left side of the screen
5. If no life signal is found within 3 minutes, move to the next grid to continue searching

3.Technical indicators

Motion detection distance: 30m.
Breath detection distance: 25m.
Detection angle of view: ±500
Ranging error: ±0.5m
Angle measurement error: ±100
Wireless distance: 100 meters Wi-Fi.

sensor
Weight: less than 10kg
Size: 620×620×260mm
Battery continuous working time: not less than 8 hours

flat
Ultra-thin three-proof, IP-68 level, shock-proof and drop-proof
High-energy hard configuration, high-definition large screen, front and rear dual cameras, large-capacity battery, and OTG function
4G full Netcom, real-time intercom, POC public network cluster intercom
BDS+GPS precise dual-mode positioning

1503 Bld. A04, 3rd Software Park, Jimei, Xiamen, 361005, China
Tel: +86-592-6102588