

2D Handheld through-wall life detection radar

AT-TWR-2D-H

Features

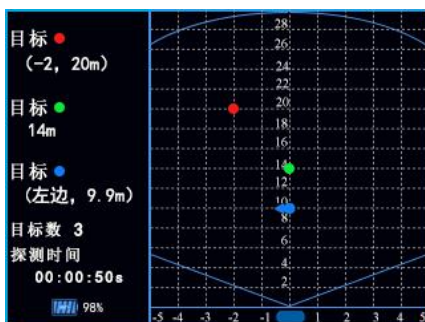
- Precise positioning, providing distance and bearing information.
- Small and light, only 1.7 kg.
- Strong penetrability, can penetrate 50 cm brick wall.
- The detection distance is far, up to 30 meters.
- Good detection performance and low false alarm rate.
- Can work without sticking to the wall.
- Multiple devices can work simultaneously without interfering with each other.
- It can be controlled wirelessly.

Application

- hostage rescue
- Action against Terrorism
- urban warfare
- intelligence gathering
- Reconnaissance and surveillance
- dangerous catch
- Anti-drug operation
- search and rescue operations

Description

The two-dimensional positioning through-wall radar life detector is a hand-held through-wall life detection radar, which can penetrate non-metallic obstacles such as walls, display key information such as whether there are people behind the wall, their distance and orientation, and monitor their movement in real time, thereby helping military, law enforcement, and search and rescue personnel make better operational decisions.



1. Technical indicators

penetrable wall material	Various common non-metallic walls
Maximum Penetration Thickness	Brick wall $\geq 50\text{cm}$
Number of walls that can be penetrated	no less than 2 walls
Maximum detection distance	Stationary target $\geq 25\text{m}$
target quantity	Sports target $\geq 30\text{m}$
Maximum number of targets	3
Detection angle	Azimuth and elevation not less than 100°
Display screen	Color LCD
Display mode	graphics + text + value
Target information	Target presence or absence, target number, target distance and azimuth, detection time
Resolution	Better than 0.3m
Size	Length 332mm, width 108mm, thickness 102mm
Weight	1.7kg
Power supply	rechargeable lithium battery

2. Technical advantages

The two-dimensional positioning through-wall 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 Very reliably detects the presence of targets and measures range and azimuth information in strong clutter environments.

3. Radiation safety

The two-dimensional positioning through-wall radar life detector is completely radiation safe, which is equivalent to the radiation of mobile phones.