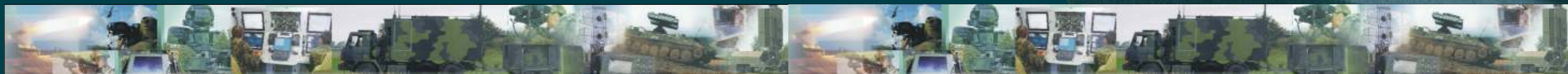




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**ReTWis**

**Look behind the walls**

# ReTWis®

ReTWis is a small handheld through wall radar system designed to detect and localize living entities through solid obstacles.

The unique implementation of ultra wide band technology allows such a high sensitivity to very small movements that detection of people is based on micro-movements performed by their life functions – breathing and heartbeat.

ReTWis is an invaluable tool in every case where accurate information about position of people behind obstacles helps to save lives.

Application of ReTWis by military, police and special forces saves lives of soldiers in urban environment as well as lives of hostages in counter-terrorist actions.

For fire and rescue brigades ReTWis is also a very helpful tool not only in case of fire but mainly after natural disasters.

## Users and applications



### Police special forces

During counter-terrorist intervention in urban area, lives of hostages and members of rescue team depends on the right decision of officer.

This knowledge of number and position of terrorists and hostages is crucial and helps him to adapt plans to a real situation in a real time.

ReTWis brings to officer accurate situation survey.



### Urban Search and Rescue teams

After a hurricane or an earthquake finding of survivors is a very difficult and important task.

Rescue teams often waste time and energy moving debris from places where nobody has survived and on the other hand places with survivors may be searched through later.

In this case, time factor is crucial for lives of sacrifices.

### Fire Brigades

Work of fire brigades is similar to USAR teams. Finding people in burning, fummy buildings is a dangerous activity also for firemen. Good knowledge of position of living entities behind walls or obstacles allows rescue team to enter only places with alive people and reduce risk of injury of firemen.



### Highlights:

- Range up to 20 m scalable in overlapping subranges
- Intuitive user interface
- Lightweight
- Breath detection
- Fast and long term investigation
- Stand-off capability
- Vertical (through wall) or horizontal (floor/ceiling) deployment
- Data recording
- Tripod and UGV mountable
- Remote control via LAN

### Product Specification:

Size	500 x 420 x 160 mm
Weight	7 kg
Display	2D and 3D color display
Field of view	130°horizontally, 100°vertically
Range	Up to 20 m, scalable
Detection ability	Stationary or moving people
Continuous operating time per battery	More than 3 hours
Wall materials	Wood, brick, block, gypsum, solid concrete

