

RTW05

# ReTWIS 5<sup>+</sup>

Detection of persons situated behind a solid barrier

Radar range up to 40 m

Extremely light and portable

Intuitive control

The ReTWIS 5<sup>+</sup> (RETIA Through-Wall Imaging System) is a unique small portable radar designed for detecting living entities behind a wall or a non-metallic barrier. Thanks to its technology, the radar can detect living entities both in motion and at rest.

Small dimensions, low weight and a long operation period makes ReTWIS 5<sup>+</sup> a highly portable device suitable for multi-purpose usage for special police and military units.

The signal processing of the ReTWIS 5<sup>+</sup> radar, optimized for the detection of small changes triggered by human or animal movement, enables localization, for example, of a human being based only on breathing.

It also visualizes wall positions, enabling detection of hidden rooms and improving situational awareness.



## TECHNOLOGY

The ReTWIS 5+ radar uses UWB (UltraWide-Band) radio localization technology. The Ultra-Wideband technology is specific by its high resolution, high immunity to noise and practically no interference with other radio systems. Another benefit is easy penetration of its signal through the walls or other non-metallic barriers. Visual outputs of entities hidden behind the walls are displayed on the basis of processing the pulses reflected from them.

The system provides advanced visualization of walls along the radar's line of sight. It can determine the distance to additional barriers, enabling the identification of hidden rooms, voids, or passages. This capability significantly enhances situational awareness and operational effectiveness during search, reconnaissance, and tactical missions.

## KEY FEATURES

- Radar range up to 40 m
- Extremely light
- Highly portable
- Intuitive control
- Multilingual
- 2D or 3D imaging
- Start up time 15 sec.
- Powerful battery
- Up to 2 hours of record can be saved
- Water and dust-proof
- Walls visualization



## TECHNICAL SPECIFICATION

Dimensions	35 × 28 × 12 cm
Weight (including battery)	3,2 kg
Radar range	up to 40 m
Battery life	5 hours
Launching time	15 sec.
Displaying	2D – 3D
Display	7"
Remote control	LAN, WIFI
Technology	UWB – SFCW
Operation frequency	1,9 to 3,7 GHz
Transmitting power	~ 10 mW
Displaying angle	both horizontally and in elevation

