



PENETRO-2D

PORTABLE TWO-DIMENSIONAL
BEHIND THE WALL IMAGING RADAR



2D BEHIND-WALL
VIEWING



REAL-TIME HIGH
PERFORMANCE



HIGH
RESOLUTION



ADVANCED SIGNAL
TECHNOLOGIES



STRONG COMPATIBILITY
WITH THE ENVIRONMENT



STRONG
PENETRATION

PENETRO-2D

PORTABLE TWO-DIMENSIONAL BEHIND THE WALL IMAGING RADAR

GENERAL FEATURES

The hand-held 2D Through Wall Radar PENETRO-2D is a vital sign detection device that integrates UWB radar and biomedical engineering technology. This product can penetrate obstacles such as building walls and detect the location and number of human targets behind them in real-time. It features strong penetration capability, a small and portable design, and can be easily controlled with one hand. PENETRO-2D is widely used in through-wall reconnaissance scenarios such as counter-terrorism, hostage rescue, urban street fighting, and border control.



TECHNICAL SPECIFICATIONS

Device Type	Hand-held 2D through wall radar
Penetrable Materials	Bricks, floor slabs, stone slabs, doors and concrete walls, etc., non-metallic, low moisture content objects
Detection Information	Target two-dimensional coordinates, target number, dynamic/static state, one dimensional waveform and interior structure layout
Display Mode	Supports 1.5D, 2D
Detection Range	40m
FOV	$\geq 120^{\circ}$

Multi-target Detection	≥ 3
Durable Working Time	≥ 4 h (two battery)
Power Supply	Type-C interface for charging and supports internal or external battery charging
Dimension	$\leq 255\text{mm} \times 105\text{mm} \times 38\text{mm}$
Weight	≤ 0.8 kg (including battery)
Optional Accessory	Bracket, handheld display and control terminal, wired