



PENETRO-3D

PORTABLE THREE-DIMENSIONAL
BEHIND THE WALL IMAGING RADAR



3D BEHIND-WALL
VIEWING



REAL-TIME HIGH
PERFORMANCE



HIGH
RESOLUTION



ADVANCED SIGNAL
TECHNOLOGIES



STRONG COMPATIBILITY
WITH THE ENVIRONMENT



STRONG
PENETRATION

PENETRO-3D

PORTABLE THREE-DIMENSIONAL BEHIND THE WALL IMAGING RADAR

GENERAL FEATURES

Penetro-3D behind-the-wall radar is a vital sign detection device based on UWB radar technology and biomedical engineering technology. This product can penetrate obstacles such as building walls, and 3D imaging obtains real-time information such as location, posture and the number of human targets behind the wall. Featured with strong penetration, good portability, high positioning accuracy, long detection distance and intelligent posture recognition, Penetro-3D is widely used in reconnaissance scenarios such as search-and-rescue, anti-terrorism, hostage rescue, urban street conflict and border control.



TECHNICAL SPECIFICATIONS

Device Type	MIMO architecture 3D imaging via wall radar
Penetrable Materials	Concrete, reinforced concrete, cement, plaster, mixed brick, wood, adobe, plaster and other standard building materials
Detection Range	≥50m
Viewing Angle	120°
Detection Mode	Real-time 3D imaging, gesture recognition, positioning, target number display, indoor structure inversion, simultaneous detection of moving and static targets

Operating Method	Can be carried on the soldier's back or easily hand-held for detection
Remote Control via Tablet	Yes
Battery Life	≥4h
Control Distance with Tablet	≥100m
Charging Method	Type-C
Radar Dimensions	≤400mm×400mm×45mm