

Compact, Tactical Through-Wall Vision System

Tactical teams conducting urban operations are constantly faced with stepping into the unknown - is anyone in the room, hidden behind the wall or lurking in the hallway? Mission plans must account for any contingency, adding complexity and increasing the chance of error often in life and death situations. Camero's Xaver™ suite of through-wall vision systems provides unprecedented situational awareness. The Xaver™ 400 allows quick location of people hidden by walls and barriers, enabling tactical teams to step into the known.

The Xaver™ 400 is a compact, lightweight and durable personal device, optimized for the speed of tactical entries. The Xaver™ 400 gives special ops and rescue forces critical information in real-time about the number of people and their location behind a wall. Simple to operate, the Xaver™ 400 provides mission-critical information when and where it is needed.

The Xaver™ 400 utilizes technology similar to that of the pioneering Xaver™ 800, implementing a smaller sensor. The result is a compact form factor, optimized for the use of tactical teams with a performance level that suits the requirements of tactical operations.



Xaver™ 400 Features

About the size of a laptop computer, the Xaver™ 400 allows maximum mobility and maneuverability in virtually any type of urban operation. The system is ready to go at the push of a button, requiring no warm-up time or complicated boot-up routines.

- Optimized design for tactical operations - compact, under 3kg
- Reliable detection of people behind most common wall materials
- 2D imaging capability for intuitive image interpretation
- Simultaneous detection of static and moving objects
- Provides information about room dimensions and major infrastructure elements
- Wireless video broadcast to remote display
- Only minimal training required
- Affordable and easy to use

Technical Specifications

Device type	Compact through-wall radar
Penetrable wall materials	Cement, plaster, brick, concrete, reinforced concrete, adobe, stucco, and drywall
Detection range	8m
Field of view	80° in both Azimuth and Elevation
Display modes	2D plain view, 1.5D (range with time history)
Frequency range	3GHz to 10GHz
Resolution	Less than 1m at the end of range
Dimensions	L: 37cm, W: 22.5cm, D: 12cm
Weight	2.95kg, including batteries
Power supply	Rechargeable and primary batteries, mains power source
Batteries operating time	Rechargeable: 2.5 hours Primary: 4.5 hours
Wireless video	Built-in wireless video transmitter with up to 100m range
Accessories	External battery charger, hard-shell carrying case, backpack, remote video monitor

Radiation Safety

The Xaver™ 400 is completely radiation safe. It is designed to provide superior performance while meeting the requirements of ICNIRP-1998 radiation exposure restriction and the FCC OET Bulletin 65 - Limits for General Population/ Uncontrolled Exposure.

Xaver™ 400 Technology

The Xaver™ 400 utilizes a state-of-the-art system architecture, encompassing multiple cutting edge technologies. A unique, multi-channel, Ultra-Wideband (UWB) sensor that operates at very high bandwidth enables reliable detection and industry leading object resolution. Patented image reconstruction algorithms are used to cope with cluttered environments resulting in a high quality and intuitive image. Simple operation and compact packaging are key features of the design.

The Xaver™ 400 has an internal wireless video transmitter for broadcasting screen images to remote users. Camero provides remote video receivers or can integrate the Xaver™ 400 with an existing image distribution system.



About Camero

Headquartered in Vienna, Virginia, Camero focuses on through-wall imaging and sensing devices. Our proprietary technology and extensive experience position Camero at the forefront of the rapidly emerging through-wall sensing and imaging market.

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