



High Performance, ISR Through-Wall Vision System

Special operation teams conducting operations in an urban environment need accurate and reliable real-time information for successful execution of their missions. Information about the number of people and their location inside a room is critical in determining operation timing, force size and task allocation.

The Xaver™ 800 is a portable, high performance sensor system, optimized for gathering instant and accurate real-time information from behind solid walls. The Xaver™ 800 is unique in providing for the first time a true 3D imaging of objects behind walls. The Xaver™ 800's superior object resolution allows quick location of people hidden by walls and barriers, and tracking of their movement patterns to support differentiation between victims and hostiles.

Simple to operate, the Xaver™ 800 delivers mission-critical information when and where it is needed, providing unprecedented situational awareness.

The Xaver™ 800 utilizes technology similar to that of the Xaver™ 400, implementing a larger sensor. The result is a high-end system that primarily suits urban Intelligence, Surveillance and Reconnaissance (ISR) missions, providing exceptional object resolution and image clarity.

Xaver™ 800 Features

The Xaver™ 800 delivers unprecedented performance levels, yet it is small enough to be carried and operated by a single person. Like all Xaver™ products, it is ready to go at the push of a button, requiring no warm-up time or complicated boot-up routines.

- Designed for ISR missions
- Reliable detection, high resolution images through most common wall materials
- 4m, 8m and 20m detection range
- 3D and 2D imaging capability for intuitive image interpretation
- Effective clutter suppression
- Simultaneous detection of static and moving objects
- Provides information about room dimensions and major infrastructure elements
- On-board data recording for post-mission analysis, training and debriefing
- VGA and S-Video out capability
- Only minimal training required for basic operation



Technical Specifications

Device type	Portable through-wall vision system
Penetrable wall materials	Cement, plaster, brick, concrete, reinforced concrete, adobe, stucco, and drywall
Detection range	4m, 8m, 20m
Field of view	80° in both Azimuth and Elevation
Display modes	3D view, 2D plain view; 1.5D (range with time history)
Frequency range	3GHz to 10GHz
Resolution	Less than 0.2m at the end of range (8m)
Dimensions	Folded: L: 47cm, W: 47cm, D: 15cm Operational: L: 84cm, W: 84cm, D: 15cm
Weight	15Kg, including batteries
Power supply	Rechargeable batteries, mains power source.
Batteries operating time	2.5 hours
Accessories	External battery charger, Power supply, tripod, hard-shell carrying case

Radiation Safety

The Xaver™ 800 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™ 800 Technology

The Xaver™ 800 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.



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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