

PATSCANTM **CMR** DATA SHEET

COVERT WEAPONS DETECTION SYSTEM

PATSCAN CMRTM radar device and software solution is a first-of-its-kind covert primary screening system for the detection of on-body concealed weapons at access points of weapons-restricted buildings and facilities. **PATSCAN** is an easily concealed, cost-effective and non-invasive full body scanning technology that is proven, practical and safe.

Concealed Weapons Detection

PATSCAN CMR is the world's most advanced technology for covert screening and detection of concealed weapons. **PATSCAN** identifies threats by database comparison of known weapons profiles, and by detection of concealed irregular object mass.

Unlike millimeter wave units in use currently, the **PATSCAN** is far less expensive, easily concealed, and utilizes a single scan for detection, as compared to the numerous scans required by large, expensive and manned static installations.

Operational Benefits

PATSCAN CMR screens individuals in real time as they interact with the **PATSCAN** detection field at key access points. Installation can be covert or overt from multiple directions - subject to need and structural considerations. Eliminates institutional metal detector style look and feel.

Patriot One's patented **Cognitive Microwave Radar (CMR)** employs a network-wide ability to "learn" and adapt to new threats as "signature" patterns are identified. Pattern updates are transmitted network-wide offering an ever increasing signature library.

Operational Efficiency

PATSCAN offers performance accuracy which significantly reduces personnel needs required for bag checks and secondary screening as security is primarily deployed against identified threats only.

PATSCAN provides stand off capability and guidelines to increase first responder reaction times through immediate action integrated directly to access controls. Users manage activities from a desktop computer, mobile application, or as a dedicated alarm for localized alerts.

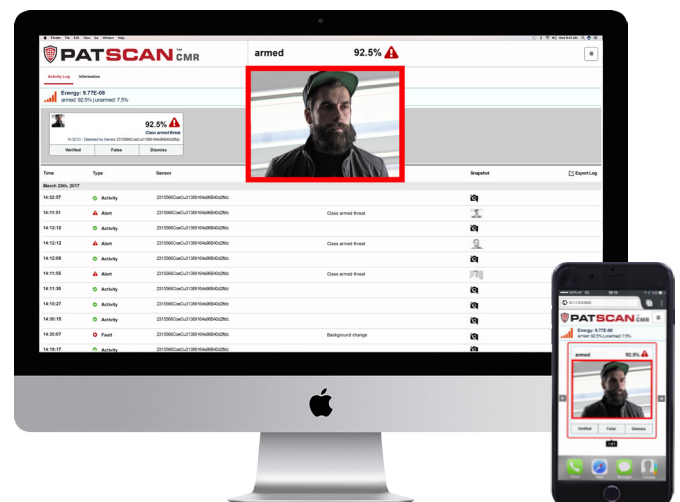
Key Features

- Small enough for covert installations.
- Images of the target NOT generated; absolutely no privacy concerns.
- No subject compliance required.
- Secured locations inconspicuous - not institutional.
- Time consuming scans not required.
- Doesn't require line of sight.
- Compact and lower cost than millimeter-wave units.
- Low cost allows for multiple networked units.
- Weapon profiles updated network-wide regularly.
- Real-time and entirely computer-based. Human operators NOT required.
- Early detection reduces inspection team size and buys first responders critical intervention time.
- System "learns" and continuously perfects its detection ability.
- Radar frequencies are aligned with international regulations for safe use of microwave bandwidths.

Operational Environment

Designed for use in any public or private facility to effectively manage and restrict weapons access.

User-Friendly Interface



Hardware

Antenna Housing (X2):	305mm x 305mm x 57mm (12" x 12" x 2.25")
Electronic Housing:	510.5mm x 363.2mm x 93.9mm (20.1" x 14.3" x 3.7")
Operating Temperature:	-0°C to 55°C
Relative Humidity:	95% non-condensing
Input Voltage:	110 / 220V AC
Power Consumption:	5W
Environmental Rating:	IP54
Imaging Distance:	Up to 2 meters



Sensors and Imaging

Field of View:	Wide angle up to 2 meters
System Sensors:	Active 10GHz
Measurements:	8-16

Integration Options

LED Display:	Tri color- (R, Y, G)
LCD Display:	2 x16 characters
Connectivity:	Ethernet, (Wi-Fi option)
Integration:	SDK Access Control & Messaging

Performance

Sensitivity (true positive rate)	91.6%
Specificity (true negative rate)	94.4%
Accuracy (overall)	93.0%

Available Accessories

- Range of installation brackets
- AC-to-DC converter, AC power cable
- Mounting enclosures
- Installation, User and Service Guides

Approvals

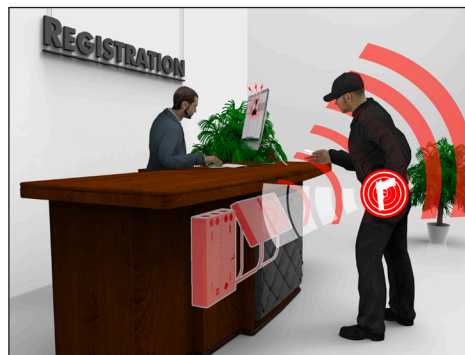
CE, FCC, IC, IEEE 802.3 (in progress)

Deploying PATSCAN CMR

Distance limitations may require multiple units for effective coverage. The system must be installed by a trained professional.



TURNSTILE ENTRY



REGISTRATION / FRONT DESK



TEMPORARY EVENTS / BAG CHECK

PATSCAN Deterrence Proposition

Patriot One Technologies, Inc has developed a first-of-its-kind Cognitive Microwave Radar concealed weapons detection system as an effective tool to combat active shooter threats before they occur. Owner / operators of private / public facilities can plan to prominently post anti-weapons policies with compliance assured. The Company's motto Deter, Detect and Defend is based on the belief that widespread use of its technology will act as an effective deterrent, thereby diminishing the epidemic phenomena of active shooters across the nation. For more information, visit: www.patriot1tech.com and watch our video.

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