

Defender™

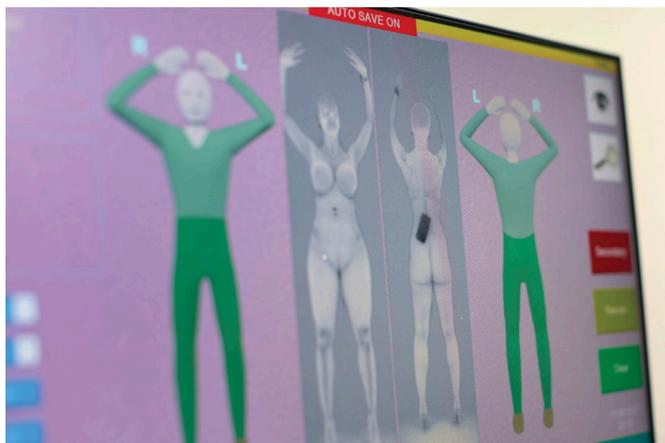
Advanced, Reliable Threat Detection for Public & Secured Facilities



DEFENDER™ is Tek84's full-body scanning system engineered for airports, courthouses, embassies, border checkpoints, military facilities, and anywhere security is essential. **Fast, accurate, and made in the USA**, Defender delivers reliable threat detection with crystal clear image clarity, without compromising privacy or safety.

Solving the Challenges of Security Screening

Complex security environments require screening systems that balance accuracy with efficiency and speed. DEFENDER™ delivers results with clarity, consistency, and confidence, optimizing workflow and reducing the need for secondary screenings.



The Tek84 Difference

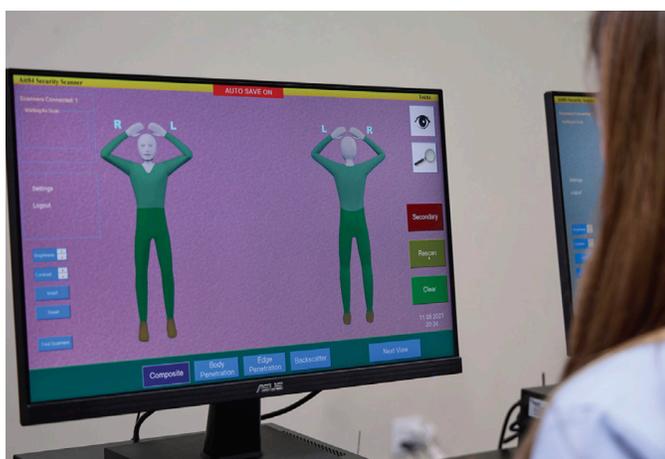
Backscatter Imaging

That Sees...Lorem Ipsum Dolore

Our Defender system uses ultra-low-dose backscatter X-ray imaging to clearly identify metal, plastic, ceramic, and organic substances. The result is crystal clear, photo-like imagery that identifies threats with fewer false alarms.

Engineered for Real-World Performance

- Triple-mode scanning enables fast, reliable head-to-toe threat detection
- Compact 5' x 5' footprint for easy installation and relocation
- Made in the USA and compliant with all federal standards



Defender™: Superior Body Scanning System

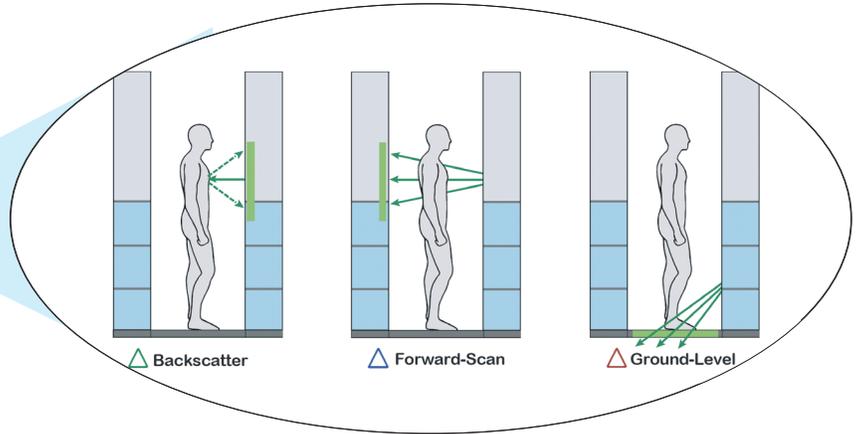
Tek84's previous generation backscatter body scanner has been deployed at over 1,000 security sites worldwide, primarily airports and war zones. Defender is the next generation of this technology, with game-changing improvements.

Airports • Military • Border control • Government buildings • Critical Infrastructure



How Defender Works

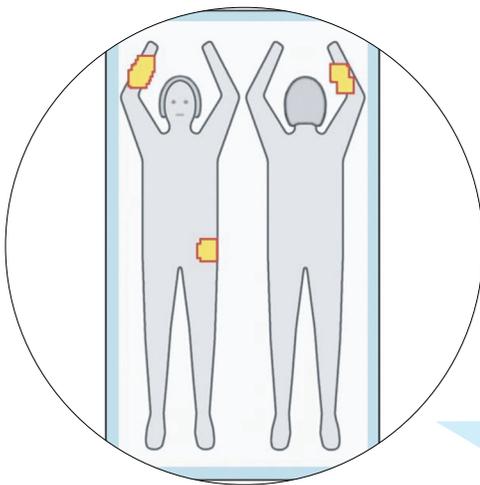
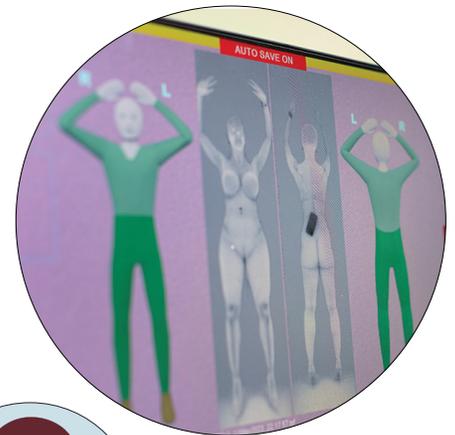
Easy to Use. Always Reliable.



1 Rapid Full-Body Scan: Defender's triple-mode scan captures 6 high-resolution images in just 7 seconds

2 Secure Remote Review: Images are securely transmitted to remote reviewers for analysis, removing privacy concerns

4 Focused Resolution: On-site officer receives precise location of anomalies for efficient follow-up screening



3 Anomaly Detection: Reviewers mark any detected anomalies on a neutral human outline



Safe for Frequent Screening

Defender uses ultra-low-dose radiation while delivering crystal-clear imagery, in compliance with all American National Standards Institute (ANSI N43-17) radiation safety standards.

- One scan equals approximately 15 minutes of natural background radiation
- Individuals can be screened up to 20 times per day and remain compliant with ANSI N43-17 safety standards
- Routine daily screening falls within the category of negligible individual dose.

Why Backscatter Outperforms Millimeter Wave

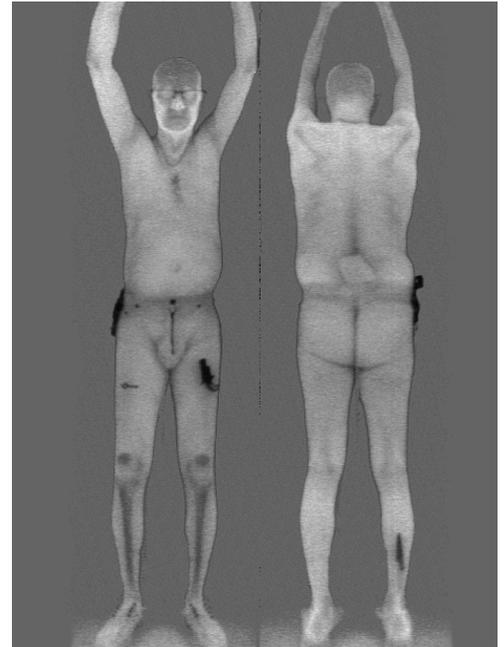
When accuracy matters, Defender is the preferred choice.

Backscatter (Defender)

- Penetrates clothing using ultra-low-energy X-rays
- Produces detailed, photo-like images
- Detects a wide range of metallic and non-metallic threats, including plastic, ceramic, and organic
- Reduces false alarms

Millimeter Wave Systems

- Use radio waves and automated image overlays
- Criticized for high false-positive rates
- Can produce artificial, difficult-to-interpret image textures



Tek84 Defender: Backscatter images appear like a photograph of a person, providing excellent threat detection with a low false-alarm rate.

Concealed objects in this image:

- .38 caliber revolver on right hip
- .22 derringer in left pants pocket
- Handcuff key in right pants pocket
- 200 gm simulated C4 in small of back
- Ceramic kitchen knife on right calf



Other Scanners: Millimeter wave images have a texture unlike the actual human body and do not display the body sides. This can make interpretation difficult.

Case Study: Defender Works in High-Security Environments

Israeli airport security, widely recognized as one of the most advanced in the world, selected Defender for use in its national airports. Defender is further used at border crossings, government facilities, military sites, and dignitary locations.

The United States military relies on Defender technology for base security.



Defender™ Specifications

Physical

Footprint:	60 x 60 inches (152 x 152 x 243 cm)
Height:	95.5 inches (243 cm)
Weight:	850 lbs. (354 kg)
Feet:	Retractable leveling feet with rollers
Access:	Most service procedures are conducted from the scanning area. Defender can be installed against walls on three sides.

Electrical

Power:	100/120/230 VAC, 50/60 Hz, 800 watt Tolerant of poorly regulated power
EMI/RFI:	Tested to FCC Part 15
Safety:	Certified to UL61010-1

Environmental

Operating:	32-120 degrees F (0-50 degrees C)
Humidity:	Less than 95%, noncondensing

Radiation Safety

Dose:	<5 uRem (0.05 uSv) per screening, effective dose to subject measured in accordance with ANSI/HPS N43-17-2009.
Leakage:	<0.1 mR (1 uGy) in any 1 hour at the footprint of the scanner.
Standards:	Complies with ANSI/HPS N43-17-2009 radiation safety standard and the IEEE N42.47-2010 performance standard.

Screening

Scan rate:	7 seconds per screening; 300 persons per hour.
Detection:	Broad range of metallic and non-metallic threats. Contact Tek84 for testing results.