INTERCEPT™

Full Body Scanner – External and Internal

Detects both metallic and nonmetallic threats, including weapons, drugs, cell phones and other contraband. Screens from below the feet to above the head, and reveals items under the clothing and within the body.

- ✓ **Widely used in US jails**
- ✓ **Subject doesn't move**
- ✓ **Quick 3.8 second scan**
- ✓ **Ultra-small footprint**
- ✓ **2-hour installation**
- ✓ **Photo ID tied to scan**
- ✓ **Government funding sources available!**

Tek84™
Advanced Security Screening

MADE IN THE USA

INTERCEPT™

Internal and External Threat Detection

Easy to Use – Widely Accepted

More than 2,000 detention facilities rely on x-ray body scanners to search persons for hidden objects. The subject simply stands on the Intercept stationary platform for a quick 3.8 second scan. Instantly, a detailed x-ray image appears on the high-resolution monitor and shows objects hidden under clothing and within body cavities.

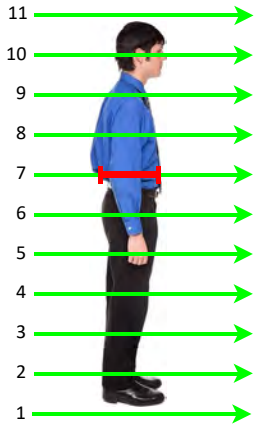
Extremely Safe – Regulated by the FDA

Airport body scanners only detect items hidden under clothing—not within the body. Intercept is different. It transmits a weak x-ray beam through the subject. The scanned image appears similar to a medical exam, but uses less than 1% of the x- ray level. Federal safety standards allow each subject to be screened up to 1,000 times per year on the lowest setting, which allows for daily use. The highest setting on Intercept produces more detailed images and allows up to 125 scans per year.

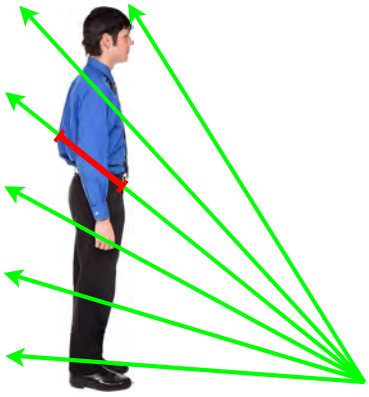
Better Images, Lower Dose, No Distortion

The Intercept scanning beam passes through the subject directly from back to front—the shortest distance possible through the body, which measures about **11 inches** in thickness. Other products scan at an *angle*, which requires the beam to pass through about **16 inches** of tissue. The extra five inches have a dramatic effect on image quality and dose. A 140-pound person can look like 300 lbs!

The horizontal beam also results in Intercept images that have **no distortion**—the belly button appears directly in front of the small of the back, as it should. With angled x-ray scanning, the belly button appears at the same location as the shoulder blades, which makes image analysis extremely difficult.



The Intercept beam passes through about 11 inches of body tissue in the torso.



Other scanners use an angled path that requires the beam to pass through about 16 inches.

A typical image from Intercept on the lowest setting, 0.25 µSv. Intercept can operate at up to 200 µRem for even better image quality. Items: teeth fillings, neck chain, object in shoe heal, ring, and zipper.

Tek84™

Sales@Tek84.com

858-676-5382

The Critical Difference – Vertical Scanning

Intercept is a true breakthrough. Other scanners require the subject to stand for 7 to 14 seconds on a moving conveyor belt or platform that transports them *horizontally* through the x-ray beam. Intercept patented technology is different. The subject remains stationary while the scanning apparatus moves *vertically* in front of and behind them. Why is this better?

- **Best image quality, lowest dose.** The level beam passes through the shortest body thickness.
- **Subject safety.** Subjects are often handcuffed, intoxicated, and/or combative. The last place you want them standing is on moving equipment.
- **A quick 3.8 second scan.** Other body scanners require 7 to 14 seconds—the fastest you can safely move a person on a conveyor.
- **Ultra-small footprint.** At only 34" deep and 72" wide, Intercept can fit just about anywhere. The footprint of other scanners requires about 8' x 8' to move the subject.
- **Ultra-small safety zone.** Federal standards require a safety zone around body scanners where operators and bystanders are prohibited during operation. The saftey zone around other scanners is typically 20 feet in diameter. The unique design of Intercept allows for sophisticated internal radiation shielding that makes the safety zone nothing more than the scanner footprint.
- **Easy Installation and relocation.** Intercept installs like a refrigerator. It ships fully assembled on wheels, rolls through standard doorways, and plugs into a standard wall socket. A typical installation is 2 hours. Other scanners are too large to install this way. They ship on multiple pallets and are built onsite.

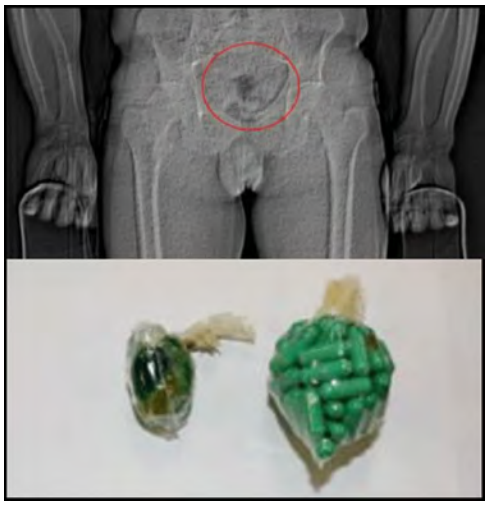
Dual Virtual Wall

Detects when the subject is out of position.

- Notifies the operator
- Prevents scanning
- Stops in-progress scans
- Complies with ANSI N43-17
- Configures to local requirements

Case Study – Internal Detection of Drugs

An actual seizure from a US Jail in 2020. A routine scan at booking showed a dark anomaly, consistent with an object concealed in the rectum. When confronted, the subject removed two balloons. One contained cannabis gummies, and the other contained sleeping pills.

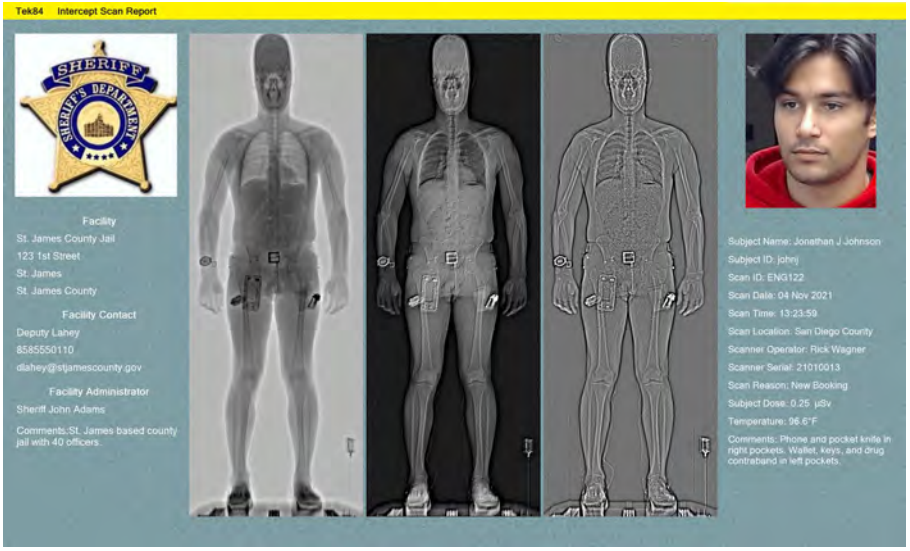


Built-in Camera

Provides a positive match between the subject and their scan image.

Thermal Sensor

Measures the subject temperature, detects fevers, fights COVID.



Evidence Files

Exports files that include embedded scan images and subject photo. Use for prosecution or training purposes.

- All relevant information in one file
- Simple and quick download
- ~ 1MB file size
- Annotated scan discoveries
- Permanent subject temperature record (optional)

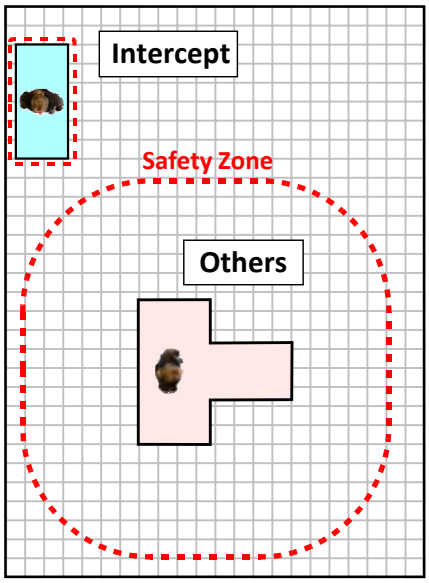
INTERCEPT™

Quick, Convenient, Reliable

Ultra-Small Footprint and Safety Zone

Intercept is extremely compact—requires only 34 x 72" of floor space. Other body scanners require three times this area. But more important is the **Safety Zone** from which bystanders and operators must be excluded during operation. The Safety Zone for Intercept is nothing more than the scanner footprint. The Safety Zone for other scanners is enormous—5 to 8 feet away in all directions.

The small footprint, no additional Safety Zone, and easy movement allows Intercept to fit just about anywhere. Many facilities even operate Intercept in a hallway and require nothing more than a standard wall plug.



One square = One foot

Intercept is shipped fully assembled and can be pushed through standard doorways. A typical installation is less than 2 hours. Other body scanners must be shipped on multiple pallets and built onsite over several days.

Intercept™ Specifications

Physical

Footprint	34 x 72" (86 x 183 cm)
Height	90" (211 cm) assembled 79" (201 cm) top removed for transport
Weight	720 lbs (328 kg)

Electrical

Power	100/120/220 VAC 50/60 Hz 1000 Watts Tolerant of poorly regulated power

Environmental

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

Radiation Safety

Dose	General Use: 0.25 µSv (25 µRem) per scan, suitable for daily screening; Limited Use: up to 2.0 µSv (200 µRem) per scan, suitable for weekly screening; effective dose to subject measured in accordance with ANSI/HPS N43-17-2009
Leakage	Inspection zone is the scanner footprint; <2 µGy (0.2 mR) in any 1 hour
Standards	Complies with ANSI/HPS N43.17-2009 (Body Scanner Radiation Safety) Complies with ANSI/IEEEN42.47-2010 (Body Scanner Image Quality)

Intercept is protected under U.S. patents: 10,481,295, 10,705,244, 10,705,245, and 10,845,500. International and other U.S. patents pending.

Tek84™

Tek84 proudly makes Intercept in the USA. Competing products are imported from China, Brazil, Belarus, and Western Europe.

13495 Gregg Street, Poway, CA 92064
858-676-5382 **Sales@Tek84.com**

Tek84 develops and manufactures high-technology security products for screening and surveillance. For over three decades we have pioneered the use of ultra-low-dose x-ray imaging. Our products rapidly and safely screen for weapons, explosives, drugs, and other contraband. Our engineers created the world's first body scanner (1991); highest resolution surveillance camera (2001); the first drive-through car bomb detection portal (2009); and Intercept, the first inmate scanner with vertical scanning technology (2018).