

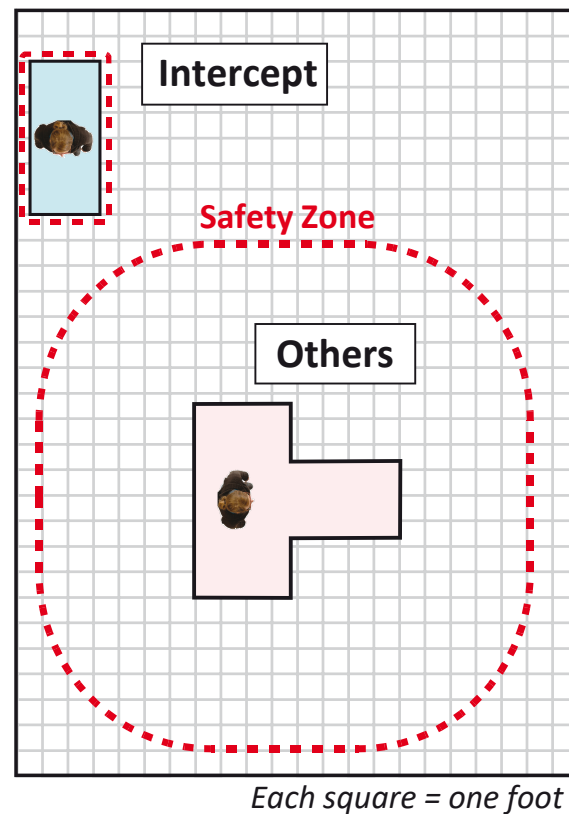
INTERCEPT™

Quick, Convenient, Reliable

Ultra-Small Footprint and Safety Zone

Intercept is extremely compact, requiring a floor space of only 34" x 72". Other body scanners require three times this area. But more important is the **Safety Zone**, where bystanders & 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, with nothing more than a standard wall plug being needed.



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 & 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).

3/14/22 Rev. K



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 at the site 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: 100/120/230 VAC, 50/60 Hz, 800 watt
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 uSv (25 uRem) per scan, suitable for daily screening;
Limited-use: up to 2.0 uSv (200 uRem) 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;
<20 uGy (2 mR) in any 1 hour
Standards: Complies with ANSI/HPS N43.17-2009 (Body Scanner Radiation Safety)
Complies with ANSI/IEEE N42.47-2010 (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.

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, revealing 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
- ✓ Buy with Covid ARP funds!!



INTERCEPT™

Internal and External Threat Detection

Easy to use – Widely Accepted

More than 2,000 jails, prisons and other detention facilities rely on x-ray body scanners to search inmates. 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, showing objects hidden under the clothing and within body cavities.

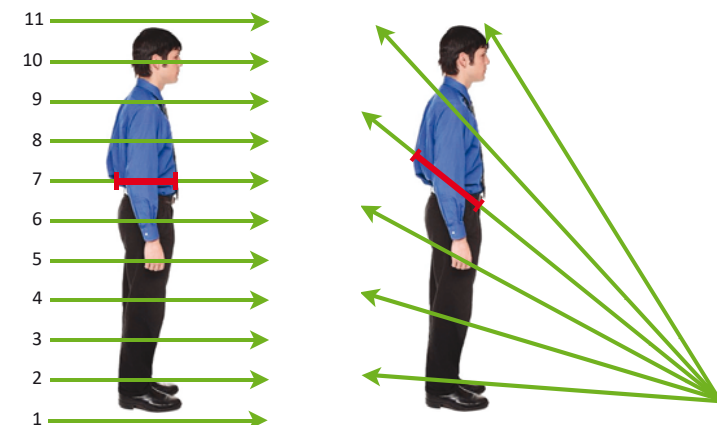
Extremely Safe – Regulated by the FDA

Airport body scanners only detect items hidden under the clothing, not within the body. Intercept is different, transmitting a weak x-ray beam completely through the subject. The scanned images appear similar to medical exams, but use less than 1% of the x-ray level. Federal safety standards allow each person to be screened up to 1,000 times per year on the lowest setting, allowing daily use. Intercept's highest setting produces more detailed images, with up to 125 scans per year.

Better Images, Lower Dose, No Distortion

As shown below, Intercept's scanning beam passes through the person directly from back to front. This is the shortest distance possible through the body, about 11 inches in thickness. In contrast, other products scan at an *angle*, requiring the beam to pass through about 16 inches of tissue. This five inches of extra thickness has a devastating effect on image quality and dose, making a 140 lbs person look like 300 lbs!

Just as important, this means that Intercept's images 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, making image analysis extremely difficult.



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

Other scanners use an angled path, making the beam pass through about 16 inches.



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

The Critical Difference: Vertical Scanning

Intercept is a true breakthrough. Other scanners require the person to stand for 7-14 seconds on a moving conveyor belt or platform, transporting them *horizontally* through the x-ray beam. Intercept's patented technology is different; the subject remains stationary, while the scanning apparatus moves *vertically* around them. Why is this better?

- **Best image quality, lowest dose.** Because the beam always passes through the minimum body thickness.

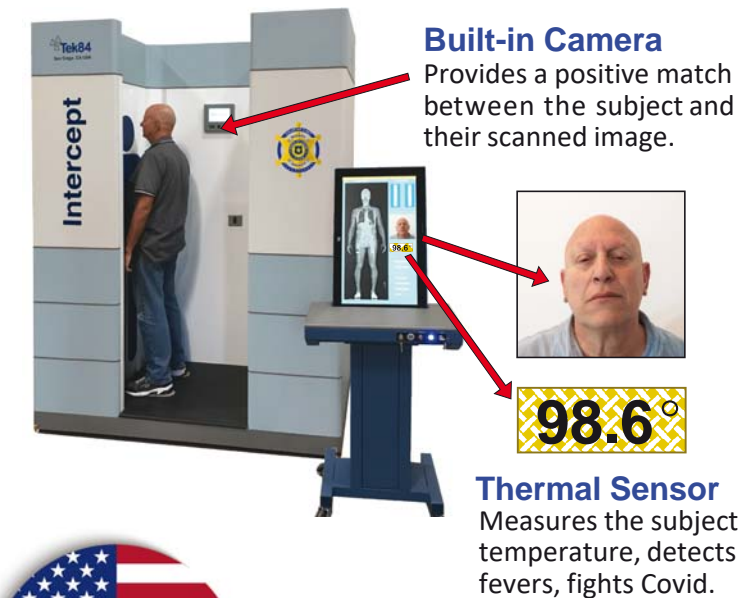
- **Subject safety.** Subjects are often handcuffed, intoxicated, and/or combative. The last place you want them standing is on moving equipment.

- **A quick 3.8 second scan.** Other body scanners require 7-14 seconds, the fastest you can 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 needs to be about 8' x 8' to move the person.

- **Ultra-small safety zone.** Federal standards require a safety zone around body scanners, where operators and bystanders are prohibited during operation. This is typically a 20' diameter circle around other scanners. Intercept's unique construction allows sophisticated internal radiation shielding, making the safety zone nothing more than the *footprint of the scanner*.

- **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 build on site.



Built-in Camera

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

98.6°

Thermal Sensor

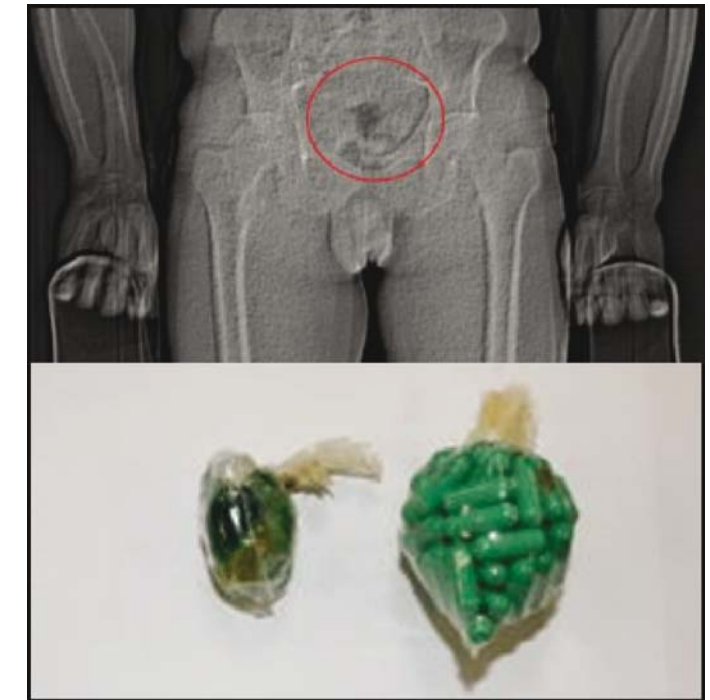
Measures the subject temperature, detects fevers, fights Covid.



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

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 containing cannabis gummies and the other sleeping pills.



Dual Virtual-Wall

- Detects if the subject is out of position
- Notifies the operator
- Prevents scanning
- Stops in-progress scans
- ANSI N43-17 Compliant
- Configurable for local requirements

Join Hundreds of Jails & Prisons Using CARES and ARP Funds to Buy Body Scanners

Intercept detects concealed threats while reducing Covid transmission– making it an ideal purchase for your unused CARES and American Rescue Plan funds. One staff member can screen up to 180 subjects per hour while maintaining the required 6-foot Covid-safe distance. An FDA approved thermal camera measures the body temperature of each subject to provide an indication of Covid-19 and other infections.



Sales@Tek84.com
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