X-ray Body Scanner for Inmate Screening

D.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.

- Unmatched detection
- Patented vertical scan
- 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
- Made in the USA
- Exceptional Training

- Buy with COVID funds!

Sales@Tek84.com  858-676-5382
The Next Generation of Inmate Scanners

Easy to use – Widely Accepted
More than 1,000 jails, prisons and detention facilities use 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 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 only require about 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 better images, with 125 scans per year.

Better Images, Lower Dose, No Distortion
Intercept’s scanning beam is horizontal, passing 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 also means that Intercept’s images have no distortion, the belly button appears directly in front of the small of the back. With angled x-ray scanning, the belly button appears between the shoulder blades.

Some older products try to overcome this problem by adding a second x-ray source at waist height, viewing only the abdomen. This is called a “dual-view” scanner. While dual-view helps, it comes at the cost of greater complexity, higher x-ray dose, two images to interpret, larger equipment size, and greater cost. Intercept does it right – a single scan with optimal imaging, producing one simple x-ray image with the utmost quality.

A typical image from Intercept on the lowest setting, 25 uRem. Items: teeth fillings, neck chain, nonmetallic object in shoe, ring, and zipper. Intercept can operate at up to 200 uRem for even better image quality.
**Patented technology: Vertical Scanning**

Intercept is a true breakthrough in body scanners, scanning the person vertically instead of horizontally. The scanning beam (which is horizontal) starts below the feet and moves vertically upward to above the head. This vertical scanning provides revolutionary benefits over all other approaches:

- The person remains stationary (not standing on a moving conveyer belt or platform)
- A quick 3.8 second scan (not 7-15 seconds)
- Ultra-small footprint, only 34" x 72" (not 9' x 9')
- With built in wheels, Intercept easily passes through doorways as small as 35" x 80"
- Quick setup; a few hours (not a few days)
- Better image quality; lower x-ray dose
- No image distortion, objects appear in the image at the same location as on the body

**Built-in Camera**

Intercept’s built-in camera provides a positive match between the subject and their scanned image.

**Dual Virtual-Wall**

Dectets subject out of position

- Notifies the operator
- Prevents scanning
- Stops in-progress scans
- ANSI N43-17 Compliant
- Configurable for local requirements

**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 gummys and the other sleeping pills.**

**Intercept is the only inmate body scanner Made in the USA. Competing products are from China, Belarus, Brazil and Germany.**

**Join Hundreds of Jails & Prisons Using COVID Funds to Buy Body Scanners**

Tek84’s Intercept detects concealed threat plus reduces Covid transmission— making it an ideal purchase for your American Rescue Plan funding.

One staff member can screen up to 180 subjects per hour while maintaining the Covid-safe distance of 6 feet. An FDA approved thermal camera measures the body temperature of each inmate to provide an early indication of Covid-19 and other infections.

Sales@Tek84.com 858-676-5382

Tek84 is owned and operated in the USA. Our design staff has been at the forefront of body scanner innovation for 30 years.
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).

Ultra-Small Footprint
Intercept is compact, requiring a floor space of only 34” x 72”. Other body scanners require up to three times this area. The built-in wheels and removable roof makes installation & relocation quick and easy.

Other body scanners

Intercept

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858-676-5382  Sales@Tek84.com

Intercept is shipped fully assembled and moved through doorways as small as 35” wide and 80” high. Other body scanners are shipped on multiple pallets and built on site over several days.

Intercept™ Specifications

<table>
<thead>
<tr>
<th>Physical</th>
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<tbody>
<tr>
<td>Footprint</td>
<td>34” x 72” [86 x 183 cm]</td>
</tr>
<tr>
<td>Height</td>
<td>90” [211 cm] Assembled</td>
</tr>
<tr>
<td></td>
<td>79” [201 cm] top removed for transport</td>
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<tr>
<td>Weight</td>
<td>720 lbs [328 kg]</td>
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<table>
<thead>
<tr>
<th>Electrical</th>
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<tbody>
<tr>
<td>Power</td>
<td>100/120/230 VAC, 50/60 Hz, 800 watt</td>
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<tr>
<td></td>
<td>Tolerant of poorly regulated power</td>
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<tr>
<th>Environmental</th>
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<tbody>
<tr>
<td>Operating</td>
<td>32-120°F (0-50°C)</td>
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<tr>
<td>Humidity</td>
<td>Less than 95%, noncondensing</td>
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<tr>
<th>Radiation Safety</th>
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<tr>
<td>Dose</td>
<td>General-use: 25 uRem (0.25 uSv) per scan, suitable for daily screening; Limited-use: up to 200 uRem (2.0) uSv per scan, suitable for weekly screening; effective dose to subject measured in accordance with ANSI/HPS N43-17-2009</td>
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<tr>
<td>Leakage</td>
<td>&lt;0.2 mR (2 uGy) in any 1 hour</td>
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<tr>
<td>Standards</td>
<td>Complies with ANSI/HPS N43.17-2009</td>
</tr>
<tr>
<td></td>
<td>(Body Scanner Radiation Safety)</td>
</tr>
<tr>
<td></td>
<td>Complies with ANSI/IEEE N42.47-2010 (Body Scanner Image Quality)</td>
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Intercept is protected under U.S. patents: 10,481,295, 10,705,244, 10,705,245, and 10,845,500. International and other US patents pending.