

Detect Mail Threats That other screening technologies miss



Quick, accurate detection of illicit drugs in the form of powders, liquids, treated papers and contraband

The MailSecur® solution fills a critical gap not addressed by traditional screening technologies – the detection of illegal drugs and contraband infiltrating correctional facilities nationwide. The reliance on postal mail as a means to smuggle illegal substances, especially narcotics, to inmates is rising due to COVID lock-downs and other current events. MailSecur uses T-rays to allow corrections personnel “see inside” letters and packages to detect threats that X-ray and other scanners can’t find, including all nine CBRNE designated substances. Operators view a live, 3D video of the object and can manipulate the item to gain alternate views. Remote screening capabilities are built-in with around the clock access to EOD experts for alarm resolution and support.

Operational Advantage

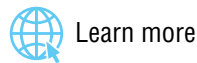
- ✓ Easy to use, simple, and intuitive solution that is lightweight, portable, and set up in 10 minutes.
- ✓ Keep staff safe by detecting contraband or threats without opening the mail item.
- ✓ Decrease inmate interaction and time screening and processing mail.
- ✓ Reduce manpower burden for mail screening.
- ✓ New operator training in under 4 hours.
- ✓ T-rays are safe for the operator and eliminates the need for radiation permits, licensing, and safety programs needed for traditional X-ray scanners.
- ✓ Affordable purchase or rental options.
- ✓ Scalable, quickly and easily deployed across multiple sites.

Detect Drugs and Contraband:

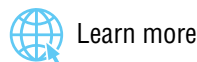
- ✓ Suboxone strips.
- ✓ Drug-laced papers: K2/K3, THC, Raid, other chemicals.
- ✓ Powder or liquid forms: methamphetamine, opioids, cocaine, heroin and synthetic marijuana.

Use Cases:

- ✓ **National Crime Lab:** Staff was nearly overrun with powder threats, and frequently exposed to dangerous substances. With MailSecur the lab team were quickly and safely detecting powders and traces of liquid, and was able to get operations back on track.



- ✓ **Major State DOC:** Deploying MailSecur improved detection of illegal drugs and contraband, reduced the entry of dangerous substances into the general population and limited the need for inmate movement.

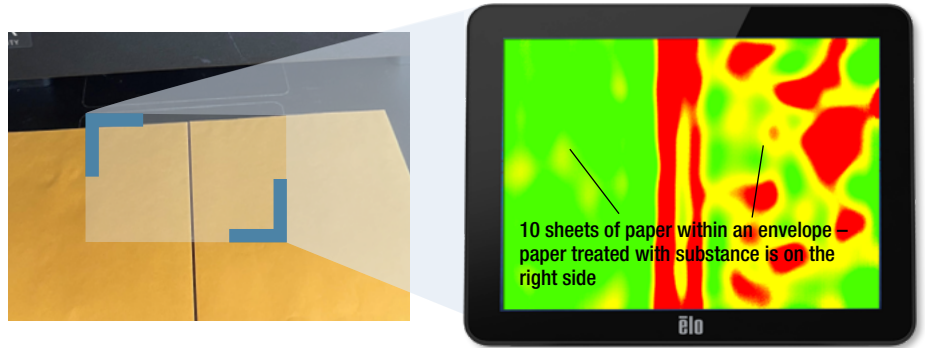


4 OF THE 5 LARGEST US COMPANIES,
MAJOR GOVERNMENT AGENCIES AND
DOCS ARE PROTECTED BY

MAILSECUR®

Laced Papers

Paper sprayed with a toxic or narcotic substance and allowed to dry may be imperceptible to the human eye. MailSecur detects the changes that occur to the paper and clearly displays the affected areas as a yellow and/or red depending upon the level of saturation, making it easy to detect chemically-altered papers, concealed within envelopes and packaging, including K2, K3, THC, Raid, and other chem.



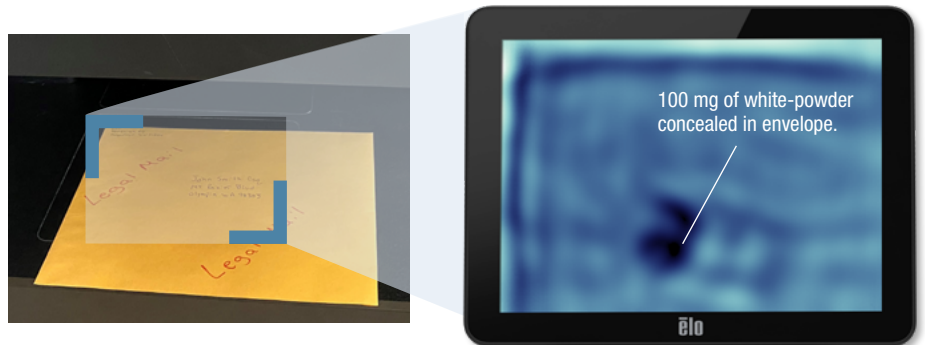
Suboxone Strips

The small, thin film strips are easy to conceal in almost any type of mail, even under postage stamps. However, the sensitivity of the T-ray scanning technology detects the change in the paper and displays the strip as a darker color.



Powders

The small quantity of powders placed in envelopes makes it difficult or impossible for other technologies to detect. With the live 4D video provided by MailSecur, an operator can physically move the envelope and see the actual grains of powder moving within the mail item.



Contraband

Micro devices, such as a USB-C connector, SIM cards, memory cards, and similar items can be missed during both a manual inspection or X-ray screen due to their small size. However, the 3x optical zoom camera on the MailSecur makes its presence clear.

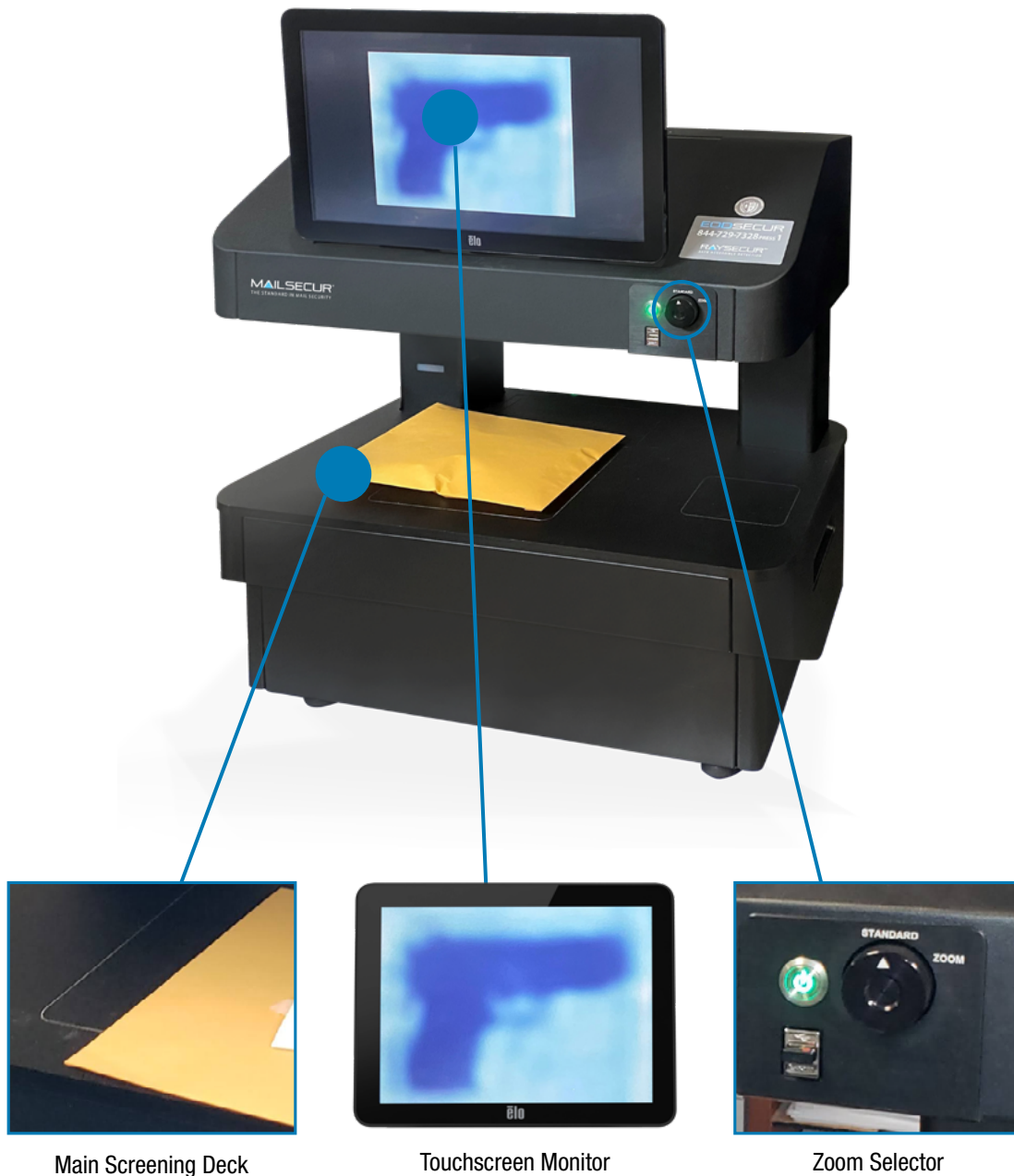


Intuitive Operation

MailSecur scanners have 10x greater resolution than mmWave scanners used in airports. It is also superior to X-ray machines for mail scanning, detecting more threat types, including powders and liquids with 300x higher image sensitivity.

- ✓ There are two scanning areas:
 - Wide-format for an overall view of the object
 - 3x optical zoom for detailed inspection
- ✓ Adjustable monitor and touch screen UI.
- ✓ Integrated radiation and metal detectors.

- ✓ Designed as a compact tabletop unit weighing only 70 pounds, with standard power requirements.
- ✓ Because the T-ray technology is safe operators can touch and manipulate the item during screening to gain a real-time view of concealed items from all angles
- ✓ Image and video capture capabilities allow operators to save findings for auditing or reporting needs.
- ✓ Network capabilities enable 24x365 remote EODSecur expert support in real-time.



Main Screening Deck

Touchscreen Monitor

Zoom Selector

Technology

- ✓ MailSecur is the only all-in-one mail scanner that can detect all of the threats listed in the Department of Homeland Security (DHS) Mail Screening Guidelines
- ✓ DHS Safety Act Designated Qualified Anti-Terror Technology
- ✓ Exclusive 4D real-time T-ray imaging combined with machine vision.
- ✓ Detect and identify the smallest and hardest to find threats such as treated papers, suboxone strips, powders, liquids, and other contraband concealed in small envelopes or packages.
- ✓ Safe T-ray technology that is 10X more sensitive than the millimeter wave technology currently used in airport screening and 300X more sensitive than X-ray for detecting powders and liquids.

DHS DESIGNATED CBRNE SUBSTANCES	MAILSECUR™	X-RAY SCANNERS
Explosives	✓	✓
Illicit Items	✓	✓
Contraband	✓	✗
Powders	✓	✗
Liquids	✓	✗
Chemicals	✓	✗
Biological	✓	✗
Radiological	✓	✗
Nuclear	✓	✗

Desktop Mail Scanner Technical Specifications

Terahertz (T-ray) Technology	270-290 GHz swept frequency dual-zone imaging with standard and 3X optical zoom. Real-time T-ray imaging with 10X the resolution of airport screening systems. Safe, requires no certifications, dedicated safety protocols or special shielding.
Dimensions	19.5 in x 32 in x 31.5 in (49.5 x 81.3 x 80 cm) 70 Pounds (31.75 kg)
Camera(s)	Broadband T-ray and Optical
Field of View	9 ¼ in x 7 ¼ in (23.5 x 18.4 cm)
Image Enhancement	Multiple Color Mapping Brightness and Contrast Adjustment 3X Optical Magnification
Automated Threat Detection	AI Supported Detection Software Update Machine Vision
Metal Detection	Sensitivity Control Visual and Audible Alarm
Radiation Detection	Gamma and Beta
Power	Standard 110/220 V AC
Internet Connection	Ethernet, WiFi, LTE
Peripherals	USB, HDMI
Setup time	Typically <30 minutes



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