

MINI Z

HANDHELD Z BACKSCATTER SCREENING SYSTEM

**SECURITY
DETECTION**
METAL DETECTORS X-ray MACHINES



The MINI Z system comes with a **standard-sized tablet**, which operates both as an operator interface and an image viewing monitor.

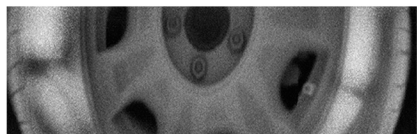


The MINI Z system comes equipped with a **rugged transport case**, battery charger, and spare batteries.

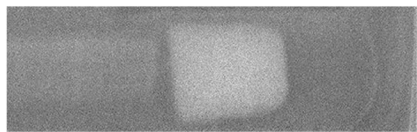
**THE MINI Z IS THE WORLD'S FIRST HANDHELD Z BACKSCATTER SYSTEM.
THE SYSTEM'S TECHNOLOGY HIGHLIGHTS ORGANIC THREATS AND CONTRABAND IN HARD-TO-REACH PLACES.**



MINI Z system scanning a tire



MINI Z image of a tire filled with simulated **cocaine**



MINI Z image revealing simulated **marijuana**



MINI Z highlighted a Bondo® patch in the arm of an excavator, where **\$150,000 of drugs** were hidden.

Self-contained, portable, easy to use

The MINI Z® system is the world's first handheld Z Backscatter® imaging system, providing unsurpassed operational flexibility. Using the same technology that made the ZBV the top-selling cargo and vehicle inspection system in the world, the MINI Z system's Z Backscatter technology **highlights organic threats and contraband**. With its small form factor and single-sided imaging, the MINI Z system **can access hard-to-reach areas**, allowing for the effective screening of a wide variety of items such as bags, walls, furniture, boats, aircraft, vehicle tires, and car interiors.

The MINI Z system is the only handheld X-ray system that **can produce images using single-sided imaging** to quickly detect anomalies. The MINI Z system is completely self-contained, with no required set-up and no consumables to replenish. Simply power the device on and you're ready to scan for potential threats and contraband.

Z Backscatter technology

The MINI Z system employs Z Backscatter technology—pioneered and perfected by AS&E. Z Backscatter technology works by displaying X-rays that are reflected from the scanned object. Organic items, such as drugs and currency, reflect X-rays more than metallic objects and appear bright white in MINI Z images (see images). MINI Z has also been successful in revealing anomalies associated with structural modifications and compartments made to conceal contraband (see photo).

Safe, secure, dependable operation

The MINI Z system was designed with safety in mind, and **features reliable and redundant safety subsystems**. The MINI Z system is **safe for operators, bystanders, and the environment**. The system conforms to applicable ANSI, ICRP, NCRP, and Euratom radiation safety standards for annual allowable dose for the general public.



Toll Free
1-800-930-3766
www.securitydetection.com

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System Specifications

X-ray Source: 10-watt 70 keV X-ray tube

Interconnection options: Wireless connection through built-in Wi-Fi; optional hard-wire via Ethernet cable

Scanner Dimensions

Length: 29.2 cm (11.5 in)
Width: 24.9 cm (9.8 in)
Height: 19.3 cm (7.6 in)
Weight: 4.2 kg (9.2 lbs)

Operating Time

Scanner Battery: Four hours (typical) per battery; two batteries provided

Scan Speed: Nominal 15 cm (6 in) per second

Tablet Battery: Six hours, typical

System Software: Microsoft® Windows® 8.1 tablet edition with ASEInspection™ software

Transport Case Dimensions

Length: 63.5 cm (25 in)
Width: 49.5 cm (19.5 in)
Height: 38.1 cm (15.0 in)
Full System Weight: 21.8 kg (48 lbs)

System Options

Tablet Mount Kit: Includes a mount for the tablet and a shorter connector cable

Tactical Backpack: For greater portability

Language Kits: Arabic, Chinese, English (standard), French, Polish, Portuguese, Russian, Spanish

System Components

MINI Z Scanner

Dell® Windows 8.1 Tablet PC with ASEInspection Software

Rugged Tablet Case with Integrated Stand

Two Replaceable Batteries

Battery Charger (with international power cords)

Transport Case

Calibration Dock

Quick-Start Guide

Shoulder Strap

Health and Safety

Complies fully with all applicable U.S. federal health and safety regulations:

ANSI/HPS N43.3-2008 Open System Classification
Conforms to applicable ANSI, ICRP, NCRP, and Euratom radiation safety standards for annual allowable dose for the general public.

To help prevent inadvertent X-ray emission, the system is equipped with a series of interlocks and audiovisual indicators.

Contains no live radiation source

Environment

Ambient Operating: 0°C to 45°C (32°F to 113°F)

Storage: -40°C to 60°C (-40°F to 140°F)

Operable in: Rain, snow, high winds, and altitudes up to 3,000 m (9,845 ft) nominally

In compliance with CE directive 2004/108/EC

System Software and Imaging Tools

ASEInspection Software—Tablet Edition

ASEInspection is the Windows-based application software used to control the system operation, manage the data, and analyze the images. The tablet edition includes touch-screen interaction.

System Operation

Main Screen: Displays system control functions

Scan Screen: Enables scanner operation and provides real-time image viewing

Status Bar: Displays connection status, battery levels, and links to Wi-Fi connection and system status screens

Status Screen: Provides system status overview with detailed page tab that displays current status of key system parameters

Tablet Connection: Connects to the scanner by Wi-Fi or wired Ethernet

GUI Skin Support: Adjusts the user interface to improve viewability for operation inside with artificial lighting or outdoors with natural light

Data Management

Image Groups: Images of the same object may be collected into their own group

Image Flagging: Images of interest may be flagged or tagged with an optional comment

Reference Library: Save your reference images to removable media for quick transfer to other tablets

Image Gallery: See thumbnails of images to quickly find images of interest

Image Search: Search for images by date taken, group or comment name, or those that have been flagged

Export Image: Exports images as .jpg or .png files

Backup and Restore: Backup and restore images

Incident Reporting: Allows users to save system logs to a removable media for submitting system issues

Image Analysis Tools

Adjustable Aspect Ratio: Allows users to adjust the image for different scan rates

Auto Enhance: Applies different levels of contrast to different features in the image, thereby enhancing subtle differences in the image

Color Palette: Adds the ability to evaluate images in greater depth, using color

Dynamic Contrast: Automatically adjusts image contrast to accommodate different scanning distances and to facilitate image analysis

Manual Image Stitching: Allows the user to create a composite image using up to four images in a group; composite images can be stored, recalled, and exported

Negative: Toggle between the normal, "positive" image or the reverse "negative" image, thereby enhancing subtle density differences

Touch Density Expand: Manually refine image contrast and brightness with your fingers

Touch Scrolling: Flick an image to scroll to another region

Touch Zoom: Zoom images up to 16x magnification by pinching or double tapping

