

ProVision[®] ATD

Image-Free Advanced Personnel Screening



Security & Detection Systems

Detect concealed objects effectively and safely and ensure privacy with the image-free ProVision[®] ATD personnel screening system

ProVision ATD with Automatic Target Detection is optimized to enhance security at aviation checkpoints. ProVision ATD is approved by regulators globally, including the Transportation Security Administration (TSA), the European Civil Aviation Conference (ECAC) and has been deployed internationally for several years.

The system quickly screens passengers using safe active millimeter wave (MMW) radio frequency technology to detect concealed objects made of a broad variety of materials – both metallic and non-metallic – including liquids, gels, rubber, wire, powder, plastics, ceramics, sheet and bulk explosives.

The passenger experience is convenient, straightforward and efficient, requiring only a quick, stationary pose for 1.5-seconds that provides scan information on potential threats.

ProVision ATD provides an image-free solution that eliminates privacy concerns. Advanced state-of-the-art software processes scanned numeric data and determines if the individual can be cleared through the aviation checkpoint.

ProVision ATD offers customers an upgradeable technology platform that can be enhanced through software updates as new threats and requirements emerge.



APPLICATIONS

- Aviation threat detection
- Select non-aviation environments

COMPLIANCE

- TSA Approved
- EU CEP Approved
- CATSA Approved



The L-3 Advantage. ProVision ATD underscores L-3's commitment to improve aviation threat detection through the advancement of innovative technologies for diverse, complex and demanding security applications.

**Enhanced Security:
Unmatched Detection**

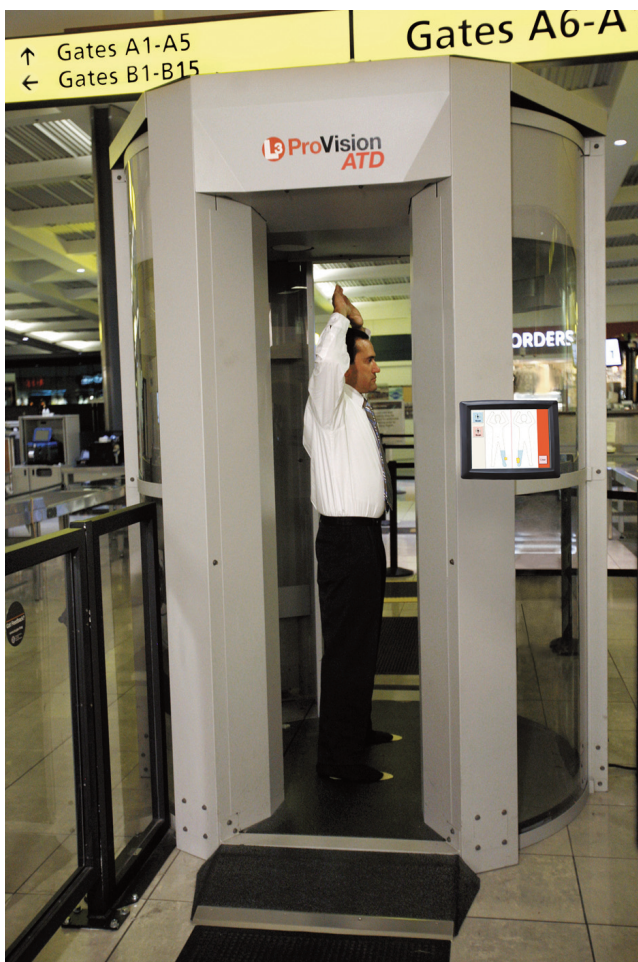
Terrorists constantly search for clever ways to conceal aviation threat substances. ProVision ATD's unmatched detection software is optimized for aviation requirements. The system eliminates the ambiguity of hand searches and detects a range of threats metal detectors simply cannot. Based on a 1.5-second scan, the system detects a broad range of targets including metallic and non-metallic items, and both low and high density materials including metals, plastics, powders, sheet and bulk explosives, liquids, gels, ceramics and other solids, etc.

**Health and Safety:
Safe Radio Wave Technology**

ProVision ATD's patented sensing mechanism is based on millimeter-wave technology using safe radio waves that pose no health and safety risks. These signals pass through all types of clothing, but do not penetrate the body. The reflected waves are captured by the system's sensors. ProVision ATD does not use ionizing radiation, such as X-rays, and is tens of thousands of times less powerful than other commercial radio frequency devices like cell phones, wireless handsets and other standard household devices. ProVision ATD's millimeter wave technology has been extensively evaluated by regulators worldwide including the U.S. Food and Drug Administration, Health Canada and the Dutch Institute of Applied Science (TNO), and found to be completely safe.

**Ultimate Privacy:
Image-Free Technology**

ProVision ATD boasts similar privacy protocols as walk-through metal detectors since images are not generated. Numeric scan data is analyzed by software without human intervention to determine if any threats are present. Potential areas of concern are mapped onto a generic mannequin, which is identical for everyone, and presented to the operator. Security personnel can then assess the situation. If nothing is detected, a green screen with an "OK" appears and security personnel can clear the individual.



Efficient Operations: Unsurpassed Throughput

When it comes to throughput, there's no match for the rugged, reliable ProVision ATD. The system requires less than 1.5 seconds to scan an individual for a complete multidirectional view. With a less than six second total processing time, ProVision ATD processes 200 – 300 people per hour, depending on the application and supporting security protocols.

ProVision ATD reduces the need for time-consuming physical hand searches that can limit throughput levels. In addition to being more invasive and stressful for the individuals being screened, these hand searches place a high degree of physical stress on security personnel. With ProVision ATD there's no need for the repetitive bending and stretching required for physical inspections.



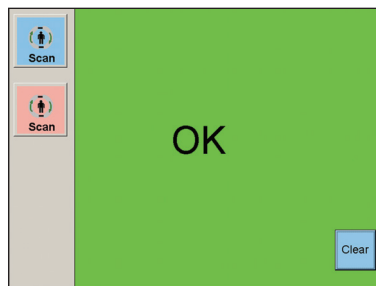
The operator control panel displays scanning and other system options

Highly Configurable: Operational Simplicity

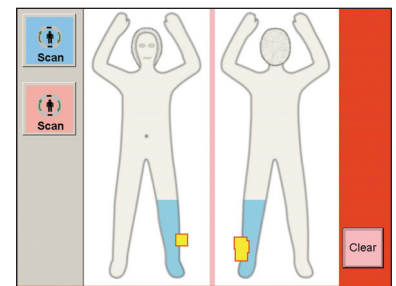
ProVision ATD is a single, stationary pose system that accommodates the throughput needs of high-traffic, high-volume checkpoints. ProVision ATD's transparent walls enable security personnel to keep individuals in view at all times. The system's reliable and robust design allows it to withstand rough handling. Fully networkable, the system can easily be configured to meet specific throughput and facility requirements.

Return on Investment: Upgradeable Platform

ProVision ATD offers customers an upgradeable technology platform that can be enhanced through software updates as new threats evolve or are introduced.



An "OK" message on a green background automatically clears most passengers



Concealed items are highlighted on a generic mannequin

Features

Standard Features

- Transparent walls
- Rigid construction
- Configurable operating modes
- Upgradeable detection software

Scanning Features

- Automatic detection, no images presented
- Front and back generic mannequin presented side-by-side
- Parallel screening for increased throughput
- Automatic system diagnostics capabilities

Physical Specifications

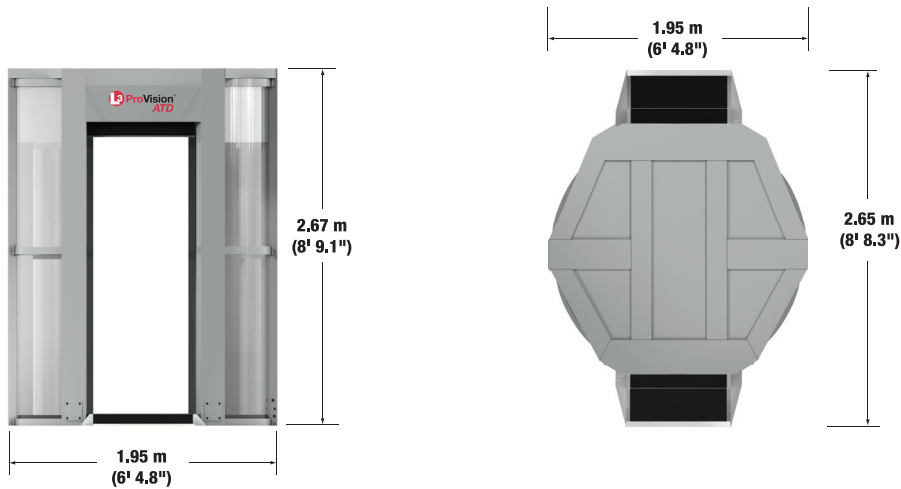
Inner walls:	Clear Lexan 9600™ 3 mm
Outer walls:	Clear Lexan 9600™ 3 mm
Height:	2.67 m (8' 9.1")
Width:	1.95 m (6' 4.8")
Depth:	2.65 m (8' 8.3")
Weight:	682 kg (1500 lbs)
Power:	100 VAC - 240 VAC / 1900 Watts Peak 50 hz - 60 hz
Temperature:	0° C to 35° C (32° F to 95° F)
Humidity:	10 – 90% non-condensing

Safety

- Non-ionizing radio waves
- Interior lighting

Analyst Workstation

Standard Windows®-based PC



Security & Detection Systems

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