The L-3 Advantage

L-3 offers a host of powerful security solutions that deliver exceptional image quality, throughput, user-friendliness, and flexibility. Blending best-in-class penetration and landmark image processing together with innovative system designs, L-3 inspection technologies lead the industry in precision, performance, and reliability.

L-3’s global field service team, the largest in the industry today, provides uninterrupted equipment maintenance 24 hours a day, 7 days a week throughout the U.S. and in 80 countries. L-3’s worldwide parts depots guarantee that parts are always available, from the smallest screw to a complete X-ray system.

Our expertly trained instructors understand the demands placed on operators charged with effectively inspecting thousands of bags, packages, and people each day. Their thorough knowledge of checkpoint security brings invaluable real-world system operation and maintenance experience to new operators, repair technicians, and staff.

Whether screening travelers at checkpoints, examining checked or carry-on bags, or scrutinizing the contents of a fully loaded tractor trailer truck or intermodal shipping container, there’s an L-3 Security and Detection system to fit the bill. L-3’s fully supported, networkable solutions are a stalwart ally in your fight to identify and eliminate security risks.

L-3 Security and Detection Systems is an ISO-9001-2000 registered company for the development, manufacture and support of advanced contraband and explosives detection systems.
Law-abiding citizens move through the world’s passenger terminals, immigration and customs facilities, government buildings, and other checkpoints every minute of every day. Among the millions of innocents, creative terrorists and criminals hide in plain sight—determined to find new and inventive ways to outsmart security systems. They attempt to conceal all kinds of threats and contraband in luggage, bags, parcels, and pockets. From firearms and knives to explosives, drugs, and stolen property, there’s no limit to what these smugglers will try to hide.

Today, security professionals responsible for accurately identifying threats, while keeping the flow of traffic moving, depend on innovative screening solutions from L-3 Security and Detection Systems. Our forward-thinking technologies help meet these continually evolving challenges, safeguard the traveling public, and protect critical infrastructure.

With exceptional threat recognition and superior throughput, L-3’s checkpoint inspection systems offer outstanding detection, performance, and reliability across the spectrum of checkpoint security applications.

You’ll never guess who’s trying to sneak something past security. Fortunately, you won’t have to.

L-3’s checkpoint security systems help inspectors accurately detect threats of all kinds:
- Weapons
- Narcotics
- Explosives
- Stolen goods
- Contraband

Commercial airports, government buildings, postal facilities, and prisons worldwide use L-3 screening systems to inspect individuals, vehicles, packages, and baggage for security threats.

Powerful material analysis technology and image processing reveal the most skillfully masked suspicious substances—even those hidden by other objects. Reveal threats and bring the smallest details into focus with L-3’s hallmark imaging and inspection technologies.

X-ray Inspection Systems: Designed to thwart the cleverest attempts at hiding prohibited items and ideal for screening everything from small packages to oddly shaped items and palletized loads.

Body Screening: Capable of detecting objects hidden anywhere on the body in a single scan, L-3’s remarkable application of innovative scanning technology spots wood, metal, ceramic, rubber, plastic, and other materials.

Metal Detection: Security professionals around the world rely on L-3 metal detection to secure high-traffic, high-risk venues, including prisons, consulates and embassies, schools, and government buildings.
Power.
Accuracy.
Dependability.

The L-3 Technology Advantage
Whether inspecting passengers, carry-on items or checked baggage for concealed threats, there’s an L-3 screening technology for the task. By working together with domestic and international regulatory agencies to develop the most effective and efficient inspection systems available, L-3 remains at the forefront of technological advancement, improving detection rates, operational efficiencies, and system configurations.

Our inspection systems incorporate L-3’s landmark advanced X-ray technology for hand-carried bags and parcel screening as well as innovative body screening and metal detection. L-3’s checkpoint inspection technologies lead the industry in precision, performance, and reliability.

With exceptional image quality, precise material discrimination, and high throughput rates, L-3 is a true partner in shaping security and detection best practices and developing cutting-edge solutions to increasingly complex and sophisticated threats.

Ideas.
Innovation.
Integration.

Fresh Approaches in Detection Technology
From state-of-the-art TSA-certified explosives detection systems to cargo inspection systems that locate threats hidden behind a foot of steel, and non-intrusive scanners that automatically see the difference between the human body and ceramic, plastic, or metal weapons, L-3 is dedicated to developing technologies that address complex security issues while meeting the industry’s most stringent regulatory and throughput requirements.

Now…introducing the world’s first truly integrated checkpoint security system, only from L-3.

Our ground-breaking, fully integrated checkpoint screening solution blends multiple cutting-edge detection technologies in a single, space-conscious system. The ProTech™ system rapidly and accurately detects explosives, weapons, and contraband while keeping people moving.

For the first time, multiple state-of-the-art technologies merge seamlessly in one revolutionary checkpoint system that spots threats quickly and keeps traffic flowing.

• Trace explosives detection
• Active millimeter wave body scanning
• Zoned metal detection
• Carry-on baggage screening using automated algorithms coupled with trace
Bag and Parcel Screening

The L-3 Imaging Advantage:
View the whole picture.
L-3’s proven imaging technology and patented image analysis tools give inspectors the edge when searching for concealed threats and contraband. Whether viewing an entire image on screen, zooming in for a closer look, or highlighting areas of interest with color overlays, user-programmable image enhancement allows screeners to capture the best possible image.

Networking:
A streamlined approach
Operating on a Windows NT platform, networked systems allow data and images to be accessed in real time by a centralized supervisor workstation. One person can perform key tasks for multiple units, including second-level screening of suspect objects, centralized monitoring of operators’ performance using the Threat Image Projection feature, and administration of all systems on the network.

The Operator Interface:
Intuitive simplicity
L-3’s patented operator interface provides a simple, intuitive, and flexible way for users to make the most of imaging information. Ergonomically designed to promote rapid learning and ease of use, the interface combines three-button conveyor control with a touch-sensitive pad that allows continuous heads-up operation using icons displayed on the viewing screen. The system’s console is designed to minimize operator fatigue and reduce the physical stress associated with prolonged screening.

TRX 110-II
TIP-Ready X-ray Inspection System
Speed and powerful detection lets busy traffic carry on.

Designed to screen virtually anything that can be carried aboard a passenger plane, cruise ship, bus, or train—from small parcels, briefcases, and duffel bags to child safety seats—the rugged TRX 110-II is a tough high-traffic performer.

The TRX 110-II hand-carry baggage inspection system blends L-3’s most advanced technology together with dual-energy detectors, a high-energy X-ray source, and state-of-the-art electronics. The fully networkable TRX 110-II makes ultra-reliable, ultra-fast work of high-volume carry-on luggage inspection and meets TSA TIP-ready X-ray hand-carry baggage requirements. The system’s roomy tunnel (848 mm x 423 mm / 25.5” x 17”) accepts a full range of carry-on items.

PX-M
Best-in-class resolution in a hard-working, flexible checkpoint X-ray system.

With best-in-class image resolution and high hourly throughput, the PX-M inspection system allows operators to efficiently and accurately screen small and medium-sized objects such as infant/child safety seats, parcels and packages, mail bins, carryon luggage, and other hand-carried items such as briefcases and backpacks.

Superb imaging capabilities facilitate rapid detection of multiple threats, including weapons, narcotics, explosives, and contraband. The PX-M is the only system in its class with a conveyor that can be configured in three different lengths to accommodate diverse space requirements.

Bidirectional operation allows the system to be easily incorporated into environments that require two-way screening, such as cruise ships, prisons, and high-security workplaces. Easy customization of software-based controls and tools allows the system to be adapted to diverse operational requirements and evolving security challenges.
Heavy-duty X-ray Scanners: The right fit for big jobs

These workhorse systems meet the toughest checkpoint challenges, standing up to the demands of high-traffic, heavy-load environments. No matter what needs to be screened, there’s an L-3 X-ray system for the job.

Versatility, Defined: Scanners for every checkpoint

From screening hand-carried objects to out-of-gauge items such as musical instrument cases, golf bags, and skis, there’s an L-3 X-ray system built for the task. Designed with compact footprints to make the most of valuable space, our user-friendly conventional X-ray systems handle everything from large and oddly shaped objects to small parcels.

APS-II

Ideal for screening mid-sized items in checkpoint applications

The APS-II gives you a clear picture of weapons, narcotics, explosives, and other threats, revealing the most cleverly masked suspicious substances—even those hidden by other objects. The system’s high-speed computer performs an accurate materials analysis based on a number of physical characteristics, including atomic number (Zeff), density, and mass. Ideal for medium-sized screening applications, the APS-II automatically detects suspicious materials masked by other objects or substances.

PX-208™

The best in its class for screening a wider spectrum of shapes and sizes

Whether at a checkpoint or in an area where space is tight, the PX-208 puts L-3’s innovative screening technology where it’s needed. With generous tunnel dimensions, this PX-208 handles oversized baggage and large boxes that conventional-sized 600 mm x 400 mm checkpoint X-ray systems cannot. Extremely easy to operate, the PX-208 features superior image quality, high throughput, and L-3’s patented E-scan® material discrimination software. The system’s dual-energy folded detector array includes 1,536 diodes, delivering the highest resolution available in a medium-sized X-ray screening solution.

PX-231™

Less heavy lifting for heavy-duty screening environments

The PX-231 X-ray system screens small parcels and large cartons as well as everything in between. The ideal choice for busy facilities that need to screen non-palletized freight in a range of different sizes, the system features a low conveyor belt (less than 12 inches from the ground) that enables rapid screening while reducing the risk of injury and damage to goods. Additionally, the system’s compact footprint is well suited to space-constrained environments. The flexible, networkable PX-231 is easily incorporated into environments that require two-way screening, such as mailrooms and loading docks.

PX-107™

A scanner with an appetite for oversized objects

Sometimes bigger really is better. With the largest tunnel size available for non-palletized freight, the PX-107 works overtime to screen irregularly shaped and bulky objects. The PX-107’s imaging capabilities bring the smallest details into focus, regardless of the size of the object being screened. The display screen even magnifies smaller items, making it easier to detect fine details that might indicate a threat. With a dual-energy folded detector array that includes 1,600 diodes, this powerhouse delivers the highest resolution available in a large-size X-ray screening system and is ideally suited for facilities that handle a variety of packages and freight, oversized cartons, and irregularly shaped parcels.
Body Screening

All-Around Screening: Seeing is believing

There’s no limit to the dangers you can see and eliminate, thanks to cutting-edge millimeter wave technology from L-3. Inspectors can view objects made of any material—including wood, rubber, wire, plastic, and metal—to quickly and easily locate weapons, contraband, and other threats concealed on the body.

ProVision™ Body Screening Portal

Reducing the stress and guesswork of physical searches

With just a single scan, the ProVision system reveals the presence of concealed objects on the body. Operators can clearly identify ceramic weapons, plastic explosives, drugs, and other contraband in as little as two seconds. ProVision can also prevent the theft of confidential information, cash, valuables, or intellectual property from secure locations.

Other imaging technologies take only a single-frame scan from one direction at a time, requiring multiple scans for the same coverage. The time it takes to position the person being scanned and to scrutinize the resulting images lowers throughput rates to less than 100 persons per hour. With peak throughput levels of 600 people an hour, ProVision far outpaces conventional body screening methods.

Invasive pat-down and strip searches place a high degree of physical stress on security personnel. With ProVision, there’s no need for the repetitive bending and stretching required for hands-on physical inspections.

Millimeter Wave Technology:

Object recognition takes a bold step ahead

Millimeter wave technology is a sophisticated imaging technique, similar to infrared imaging that “sees” radio waves emitted from the human body. Unlike infrared imaging, however, millimeter wave technology penetrates materials that visual and infrared sensors cannot.

ProVision’s patented sensing mechanism uses active millimeter waves, common radio-frequency signals that reflect off objects at extremely low power levels. These frequencies are thousands of times smaller than similar signals used by cell phones or garage door openers. Developed from three-dimensional holographic imaging technology, ProVision uses no ionizing radiation and is as safe to use as a cell phone.

Flexible Functionality:

Go configure

The ProVision™ system can easily be configured to meet specific throughput and facility requirements, from single scanner and single computer combinations to multilane configurations. Operator controls can be set up remotely or directly adjacent to the portal, depending on space requirements.

ProVision™ 360

Designed to spot even the slimmest object—such as CDs, paper currency, or other razor-thin items, the ProVision 360 detects objects hidden anywhere on the body in a single scan.

ProVision™ 100

Featuring the same single-scan detection capability of the ProVision 360, the ProVision 100 is ideal for high-traffic, high-volume sites, identifying weapons and contraband in seconds.

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Metal Detectors

Tried and True Detection: A fundamental component of checkpoint security

L-3 presents a selection of rugged and sensitive metal detectors that help screeners identify potential threats with confidence. Our highly sensitive and specific metal detectors feature a full range of target detection capabilities.

Hand-Held Detectors:

Get a grip on hidden threats

Highly sensitive, durable, and user-friendly, L-3’s hand-held metal detectors offer the ultimate in fast and thorough scanning. Capable of discerning concealed objects ranging from a handgun to a hat pin, these rugged devices are built for repetitive use. Each unit offers advanced metal detection capability and material discrimination.

Protocol™ SuperScanner

The exquisitely sensitive Protocol SuperScanner is capable of detecting a medium-sized pistol from 9 inches and foil-wrapped drugs and tiny pieces of jewelry from only an inch away. Weatherproof, stable, and easy to use, the unit’s pushbutton scanning feature temporarily eliminates the detection of nearby ambient metal such as rebar, metal walls, and other surfaces.

Protocol™ SuperWand

Head-to-toe scanning is fast, reliable, and thorough with the Protocol SuperWand. Featuring an elongated profile and a 9.5” scan area, this hand-held wand is designed to fit comfortably in virtually any grip. The Protocol SuperWand’s 360° detection field provides uniform sensitivity and tip pinpointing to accurately detect all ferrous, non-ferrous, and stainless steel weapons and other metal objects with just a touch.

Protocol™ THD

The Protocol THD’s 360°, 3.5” detection area allows unrestricted scanning angles for fast and accurate hands-free body searches, quickly and effectively targeting all ferrous, non-ferrous, and stainless steel weapons, contraband, and other metallic objects. Sealed waterproof construction ensures performance in variable weather conditions.

Protocol™ SuperOmniPlus

The SuperOmniPlus incorporates high-quality construction with a sophisticated electronic design for reliability. The Piezo Audio System offers extended battery life due to extremely low power consumption. This feature is particularly valuable when screening the general public in high-traffic areas such as airports, correctional facilities and courthouses.

Protocol™ Gammatometer

(Hand-held Metal and Radiation Detector)

In addition to screening for guns, knives and other weapons, the sensitive, solid-state Gammatometer™ effectively screens for radioactive materials. Designed to detect both X and Gamma radiation sources, the battery-operated detector operates in fully automatic mode with energy levels ranging from 20keV to 6.1MeV.

A full range of accessories is available for L-3’s portal and hand-held metal detectors.
Networkable Solutions: Connect and detect
L-3’s Control, Monitor, Analyze Interface Module (CMA) provides remote network access to data collection, alarm statistics, and real-time detector events for monitoring and/or analyzing. CMA also allows end-users to successfully integrate walk-through metal detectors into an existing access control security system that includes video surveillance and card access portals.

A full range of accessories is available for L-3’s portal and hand-held metal detectors.

Walk-Through Scanners:
High performance, high throughput
Our state-of-the-art microprocessor controls ensure the accurate and fast threat detection essential for maintaining throughput rates in high-traffic applications. Multidimensional detection fields eliminate hot spots and weak signals, and enhance sensitivity for precise target recognition. Uniform scanning from archway to floor ensures effective detection every time.

Whether used individually or configured in close proximity in multilane applications, our portal metal detectors are designed for optimal performance in any situation. Settings are maintained even if power is turned off, lost, or interrupted, and intuitive touchpad controls make units remarkably easy to program and operate.

Protocol™ MS 3500
(Multidimensional Detection Field—Ruggedized)
Superior multidimensional scanning and maximum throughput combine in the precise, proven Protocol MT 5500. With 200 programmable sensitivity levels, including ankle-boost sensitivity, the versatile Protocol MT 5500 features an infrared traffic counter that reduces false alarms and increases throughput. Thanks to dual alarm lights, audible alarms, and LED graphs that indicate target position, there is never a question about the presence of concealed metal.

Protocol™ PD 6500i
(Multiple Target Pinpointing)
Pinpoint accuracy and superior material discrimination are the hallmarks of the versatile, weatherproof Protocol PD 6500i, ideal for finding small floor-level weapons. Preset programs cover a complete range of security applications, including the Transportation Security Administration’s (TSA) Enhanced Metal Detector (EMD) System requirement.

Protocol™ MS 3500
(Multidimensional Detection Field—Ruggedized)
The weatherproof, abuse-resistant Protocol MS 3500 offers excellent sensitivity, material discrimination, stability, and noise reduction. Built to withstand the roughest outdoor conditions, the Protocol MS 3500 is the perfect choice for applications requiring maximum security with minimum maintenance. The Protocol MS 3500 detects a full range of firearms as well as ferrous or non-ferrous small caliber weapons.

Protocol™ CS 5000
(Multidimensional Detection Field)
With 200 programmable security levels and user-friendly controls, the flexibility of the Protocol CS 5000 sets the standard for simplicity and reliability in a portal that is easy to assemble and operate. Clear audible and visual alarm signals indicate the presence of target materials, and the unit’s noise reduction capability helps reduce the potential for false alarms.

Protocol™ MT 5500
(Multidimensional Scanning)
Protocol™ MS 3500
(Multidimensional Detection Field—Ruggedized)
Protocol™ PD 6500i
(Multiple Target Pinpointing)
Protocol™ MT 5500
(Multidimensional Scanning)
Protocol™ CS 5000
(Multidimensional Detection Field)
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