

# VOTI

DETECTION

## 3D Perspective™ X-ray Security Screening for a Safer World

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# Overview

## Trusted Worldwide

To accommodate today's complex global security landscape, we have developed a family of sophisticated screening solutions meeting the highest standard of detection.

VOTI Detection™ is trusted around the world, servicing critical industries in over 45 countries with our superior 3D Perspective™ technology. We adapt to fit our customers' needs based on their requirements, goals, and regulatory compliance.

## The 3D Perspective™ Difference

Whether scanning mail and small parcels, or larger baggage, cargo and freight, our units are specifically designed to provide clearer and more revealing 3D Perspective™ images unique to VOTI products.

Our equipment and software are easy to use and highly customizable, our remote diagnostics and surveillance significantly reduce downtime, and our raw image processing provides centralized security screening, archiving and the possibility for future scanning review. These features help give our clients the peace of mind that comes from choosing the best detection solutions available.

From protecting the public to flagging contraband or loss prevention, Detection™ X-ray scanners are second to none with outstanding technology.

# Get in Touch

We'd love to hear from you!  
Visit us online at : [votidetection.com](http://votidetection.com)

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# Training

We offer customized training to help you achieve optimal benefits and performance from our family of products.

## VotiUNIVERSITY™



Our multi-module courses are delivered either on-site or at VOTI Detection's headquarters, and are taught by highly trained and experienced professionals who tailor our courses to meet your organization's needs. There are several VotiUNIVERSITY™ options, depending on your requirements.

### Operator Training



This course ensures your staff can confidently operate our systems with detailed instruction and demonstrations. Our operator training makes sure our products are used safely by your team, and function to their greatest potential over their entire lifecycle to provide greatest value to you.

### Supervisor/Administrator Module



Our specialized supervisor and administrator training program offer basic operator instruction, while providing select staff with additional user-privileges and guidance on how to navigate them. They are granted superior system navigation controls and are prepared to specifically target and inspect potential threats at an advanced level.

### Maintenance & Troubleshooting Training



This comprehensive training package qualifies your staff with full-range maintenance, operation, prevention and calibration skills. This course is a hands-on approach that provides an in-depth understanding of our products and their features through meticulous and thorough training. This ensures long-term success with our systems and the highest degree of performance and confidence for your entire team.

### Train-the-Trainer Program



Clients and distributors update and improve training skills with our highly effective Train-the-Trainer Program. Given that operational and technical knowledge transfer needs to occur throughout the organization and between partners, we developed this in-depth package to support your staff with a guided and proven approach to their end-user training.

# VOTI Detection™ Difference

Saving lives, protecting people and assets through enhanced detection of threats and contraband. VOTI Detection™ uses ground breaking innovation security screening technology to secure and ever-evolving world.

## The VOTI Detection™ Difference

We have consulted with government agencies and security specialists to develop feature-rich and easy-to-use X-ray scanners that meet the sophisticated needs of modern security screening operations. Our products are used worldwide in a host of different industries: to protect, detect, and prevent. In the spirit of our origins, VOTI R&D continues to bring innovative ideas and new technologies together to provide frontline users with clear, accurate imaging and analysis, as well as the tools they need to make quick, accurate decisions.

## Feature-Rich at Competitive Prices

Our approach is software-first combining state-of-the-art image processing technologies with inventive hardware design, resulting in scalable systems that gives you greater visibility today, and a better vision for the future of x-ray scanning

The entire XR3D product family is equipped with our proprietary 3D Perspective™ technology delivering vastly superior imagery and detection at a much lower cost to buy and maintain your systems. All our systems run on BioSans™ OS to provide a full range of applications to meet your needs.

## Enhanced Imaging for Scans and Archives

High performance scanning creates images that are sharper and more revealing. With our higher image resolution and sharper contrast, on top of the greater depth of 3D Perspective™ visibility, we allow operators to see what they need to see much more quickly. Your team can analyze images more easily to make confident and rapid decisions, whether on the floor or in a security centre.

Because we archive the original source files, you can rescan any stored image virtually for additional analysis, as though the object were being processed for the very first time.

## Simplified Operations Management

Comprehensive management capabilities include archive management, network integration, multi-language options and the ability to configure administrative parameters. Our systems are intuitive and easy to use, so we can get you up and running quickly.



3D Perspective™ X-Ray Security  
Solutions for a Safer World



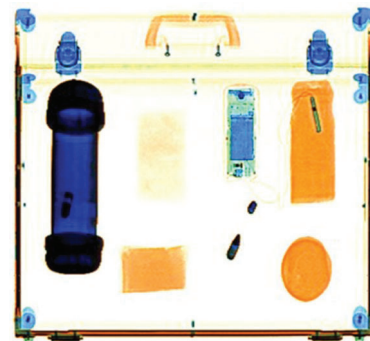
# VOTI Detection™ Benefits

## 3D PERSPECTIVE™ TECHNOLOGY

Our proprietary 3D Perspective™ technology evolves geometries and detection algorithms to remove blind spots and increase the visibility of threats for easier identification.

We maximize the screening area and produce revealing images that capture unparalleled depth and detail. Our competition doesn't even come close, see for yourself!

### Competitor Technology



- 2D scanners are unable to detect all concealed objects due to dangerous blind spots.
- Images produced are flat files and cannot be manipulated further in the future.
- True 3D scanners are expensive, large and slow to produce images.

### VOTI's 3D Perspective™



- + We eliminate blind spots and allow operators to quickly identify threats.
- + Our image files are saved in their raw format, so you can rescan them and analyze them as though the items were back in the machine.
- + We provide the benefits of a dual view system at the price of single view.

## Packages



We offer several different bundles and packages to address your support, warranty, service, and training needs:

### VotiSTART™



Our program has several options to help install and commission your new system to get everything up and running smoothly.

### VotiCARE™



Adds emergency servicing, diagnostics, and engineering support to your plan.

### VotiEXTEND™



Provides extended warranties on any of our systems to safeguard your equipment beyond the standard warranty.

### VotiOPTIONS™



Includes Basic, Plus or Premium optional packages for 2 - 5 years that combine updates, routine on-site maintenance visits, and more.

*« We are thrilled to be collaborating with VOTI Detection again. Our government wanted to ensure that it had the most sophisticated detection technology on the market today, and we feel confident that we have chosen the right partner to deploy hundreds of systems across Indonesia. »*

Budianto Natakusumah  
CEO  
PT Unique



# Services

At VOTI Detection we understand that beyond developing the most advanced security screening systems on the market, we need to provide effective support, servicing and warranties to keep your operations running smoothly and maintain the reliable detection you depend on.

We have multiple training, service and support offerings for you to choose from, as well as comprehensive documentation including operator training, maintenance manuals and product specifications

## 24/7 Customer Support



We provide Level 1, 2 and 3 customer support, with around-the-clock help desk services from knowledgeable and experienced technical support staff.

## Warranty



All systems come with a standard one-year warranty, and we have several options for extending warranties and services to keep your VOTI systems running smoothly.

## Remote Servicing



VOTI's systems require far less maintenance and servicing than usual, due to our simplified hardware setup and sophisticated software allowing us to diagnose and address issues remotely, faster than other providers. This results in less downtime and fewer idle machines waiting for repairs.



Our innovative design and detection capabilities are made possible through our state-of-the-art operating system, BioSans™.

Our OS provides the core software needed to facilitate the 3D Perspective™ Technology that makes our systems consistently outperform all others. Through BioSans™, we can add additional applications and modules to extend the functionality and value of your equipment.

From detecting precious metals, to threat image projection, all of our proprietary apps run through BioSans™.

Our software is our greatest value-add and provides many scaling opportunities for future innovations.

## Reduced Downtime



Our systems are robust and unlikely to suffer malfunctions or bugs, however if they do, we provide remote servicing and emergency care packages to get you back up and running faster than other providers.

Our streamlined technology has a lower maintenance cost, with greater uptime and longer life-cycle than other X-ray machines on the market.







# Industries

We work with national and international clients in all sectors to address their security concerns.

We also have comprehensive customizations that make our systems perform even better for each industry use case.

## Critical Infrastructure

Critical infrastructures are high-profile and high-risk locations, and as such they are vulnerable to extreme threats.

Disruptions to their functioning can result in equally extreme consequences, including the potential of lost lives, adverse economic effects, a significant reduction in the public confidence placed in an organization, and significant losses in revenue and reputation.

### Security Efficiency & Collaboration

Our advanced X-ray security screening provides the operator with the most accurate possible imaging they need in order to make informed, confident and important decisions about the safety of your organization.

In addition, our image files include the raw data and can be shared with your security centre for further analysis and additional virtual scanning in real-time.



### We specialize in protecting :

- Government buildings or assets
- Financial institutions
- Data centers and telecommunications installations
- Public utilities companies

## VotiRAV™



Our Remote Archive Viewer permits secondary screening of up to 5 VOTI X-ray scanners with full backup storage/archiving of scans.

Perfect for a centralized security centre wanting to provide coordinated additional resources to operators on the ground.

## VotiPMD™



VotiPMD™ auto-detects precious metals such as gold, platinum, silver and copper. This protects jewelers, retailers, and manufacturers from employee theft.

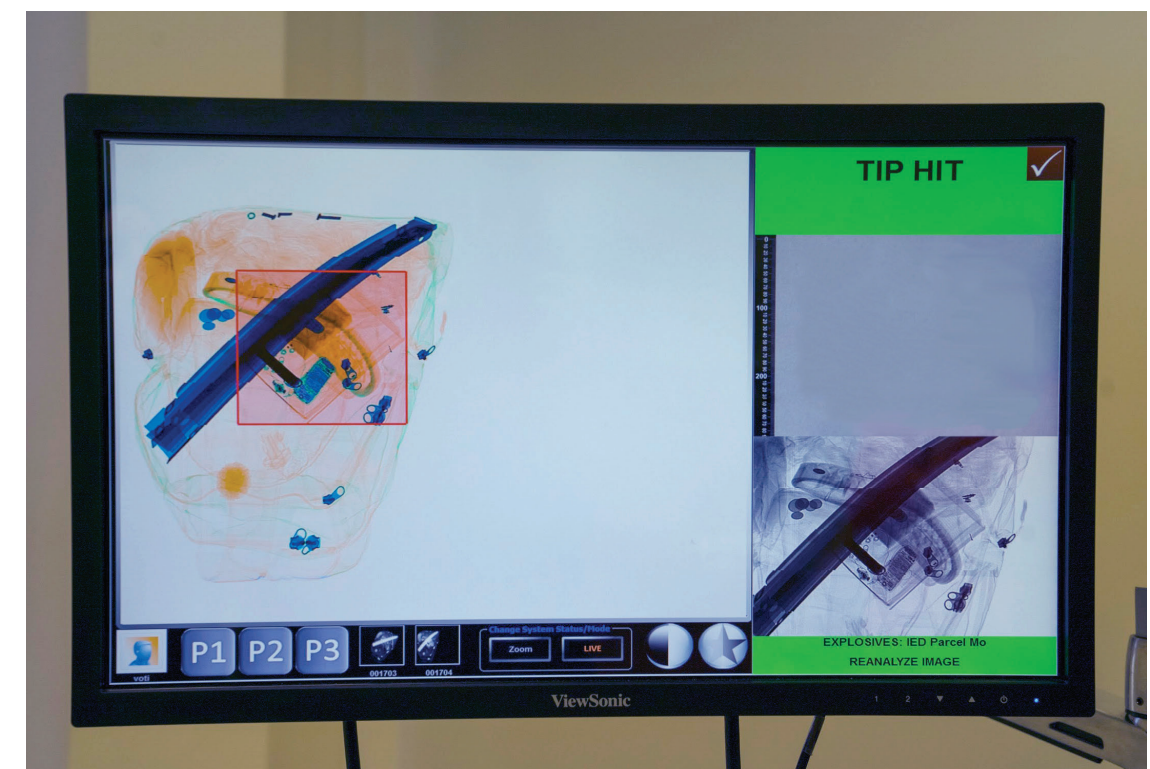
Our systems can be configured to pick up customized materials as well.

## VotiTIP™



Our Threat Image Projection app houses extensive libraries of real threats images to inject onto real scans. This tests operators' readiness, responsiveness and keeps them alert.

Response times are recorded and performance can be assessed based on their false positive reports.





# Solutions

With our systems, the overall threat detection process is enhanced automatically, by a suite of software guided tools and feature sets, including extended and configurable threat libraries.

Through an advanced ergonomic interface, operators can manipulate and enhance scanned images in a variety of ways to better pinpoint and evaluate potential threats.

This diversification into the software space is projected to further expand operating margins as VOTI Detection pursues this software and applications centric growth path.

## Applications

### VotiALERT™



VotiALERT™ provides threat assessment management with automatic threat alert and material classification.

Also includes Inspection & Tagging Recommended (ITR), Area of Interest Highlighting (AIH), raw image storage, atomic number sequencing to configure identification of materials as well as density alerts to notify operators when a material cannot be scanned through.

### VotiRAM™



Our Risk Assessment Management (RAM) Module has customizable operation and detection parameters with 5 Security Levels.

When notified of elevated risk status, our systems automatically scan more slowly and provide more resources to operators as they have their guard up for identifying and mitigating risks.

## Transportation

Transportation hubs are high-profile locations. Failures to detect threats in subway or railroad systems, airports, and other mass transit can result in lost lives, costly repairs, delays in operation and timely functioning, disgruntled passengers and staff, mishandled baggage, and significant losses in revenue.

### Unrivalled X-Ray Screening Accuracy

Undetected illicit material or undeclared goods in cargo transportation can lead to an increased flow of contraband materials and inaccurate duties or taxes when more logistics, freight and transport companies are being held accountable for their screening methods.

### We specialize in protecting :

- 🕒 Mass transit systems like subways and metros
- 🕒 Airports (passenger and freight)
- 🕒 Rail transit facilities (passengers and cargo)
- 🕒 Logistics operations



## Ports & Borders

Ongoing extremist activity in many parts of the world coupled with the cross-border movement of illegal materials has driven the need for advanced X-ray screening technology to improve border security by detecting threats, contraband, and undeclared goods.

### Enhanced Security Features

Accurate screening of the content of smaller bags as well as large shipments is of the utmost importance in preserving the safety of ports and borders.

With VOTI Detection X-ray screening equipment your operators can manipulate and enhance scanned images and even rescan them virtually as the raw files can be saved and reprocessed.



### We specialize in protecting :

- 🕒 Airports (government and commercial)
- 🕒 Land checkpoints (government and commercial)
- 🕒 Seaports (government and commercial)
- 🕒 Import/Export facilities



## Law Enforcement, Correctional Facilities & Military

Protecting law enforcement operations, military sites, and correctional facilities requires detailed and effective screening of individuals and items at all points of entry and access. In addition to main entrances, points of entry can include mail rooms, laundry rooms, loading areas, vehicle checkpoints, and more. These vulnerable areas are at a high risk for exploitation and failure to safeguard them poses serious dangers to staff, law enforcement, military personnel, detainees, and the public.

### Risk Assessment Features

With our easy-to-operate 3D Perspective™ scanners, law enforcement, corrections, and military officers are able to evaluate blind spots in images for threats not normally visible in conventional X-ray screening equipment. In addition to detecting cell phones, drugs, explosives, currency, and other contraband, VOTI Detection scanners more easily detect concealed threats, such as hidden weapons or tools.

### We specialize in protecting :

- 🕒 Prisons and jails
- 🕒 Detention centers
- 🕒 Police stations
- 🕒 Courthouses
- 🕒 Military sites



## Precious Metals

Processing, storing and handling precious metals, including platinum, silver, gold, and copper poses unique challenges for detection and loss prevention. Small, even trace amounts can still mean to massive losses to an organization over time.

### Detecting Metals by Atomic Number

Our innovative precious metal detection app uses the atomic number and the density pattern of the precious metal to automatically identify them and alert the scanner operators of their presence.



### We specialize in protecting :

- 🕒 Metal refineries
- 🕒 Jewelry retailers
- 🕒 Electronics providers

## 18 Series

Our largest scanners, the 1800 Class, are perfect for industrial use in transport, ports and borders, or retail and manufacturing where cargo, pallets and shipping containers need to be screened without opening individual items. These systems can be fitted with hydraulic conveyors and other options, and are available in both single and dual view.

### XR3D-18, XR3D-18D

**Tunnel Opening:** 1840 mm wide x 1900 mm high (72.4" x 74.8")

**Best Suited For:** Large cargo, freight and pallets



## Mobile Series

### XR3D-100M

Our Mobile units are customizable to fit on vans, trucks, trailers, and other forms of transport.

They are best suited for situations where scanners need to be deployed quickly, temporarily, or across a large area.

These systems scan items up to check-in sized baggage, and work well for security operations, events like conferences, and border patrol units.

**Tunnel Opening:** 1014 mm wide x 1062 mm high (39.9" x 41.8")

**Best Suited For:** Mobile, temporary, flexible x-ray security screening





# 7 Series

The 700 Class is perfect for screening the largest carry-on articles, as well as mail, parcels, and personal items. As such, it works well for security screening passengers in airports, train systems, and for critical infrastructure like courthouses and government facilities where items need scanning, both large and small. The XR3D-7 can be upgraded to the XR3D-7D for dual view at any time in the field.

## XR3D-7, XR3D-7D

**Tunnel Opening:** 750 mm wide x 550 mm high (29.5" x 21.7")

**Best Suited For:** Medium to full sized carry-on items



## Manufacturers & Retail

Warehouse and inventory management, logistics and theft prevention can prove challenging for manufacturers and retailers looking to protect their assets and stock.

### Loss Prevention & Theft Detection

Reports estimate US retailers lose upwards of \$60 billion every year in theft, and the numbers keep growing. Accurate screening can help deter theft and recover stolen merchandise to protect your company and reduce insurance claims.

### We specialize in protecting :

- Warehouses, fulfillment and manufacturing or storage facilities
- Offices and corporate headquarters
- Retail locations



# 10 Series

Our 1000 Class systems are large scanners that are ideal for check-in baggage screening at airports, freight screening at warehouses, fulfillment centres as well as ports and borders. While they are designed for larger articles, they can still accommodate smaller items as needed. They are available in both single or dual view.

## XR3D-100, XR3D-100D

**Tunnel Opening:** 1014 mm wide x 1062 mm high (39.9" x 41.8")

**Best Suited For:** Check-in sized items, large parcels and boxes



*«I'd like to thank the VOTI team for their excellent service. VOTI contributed to the security of the Games, ensuring a safe and wonderful experience for all the athletes, workforce, contractors, volunteers and spectators.»*



Glenn Phyper  
Director, Security Integration  
Toronto 2015  
Pan/Parapan Am Games



# Our Products

Our family of single and dual view products are easy to use and provide the clearest, most accurate screening available on the market.

Your operators will be able to make quick and confident decisions while thoroughly scanning mail, bags, parcels and cargo for threats and illicit materials.

## A New Dimension

In addition to our ground-breaking proprietary 3D Perspective™ technology, we provide unique feature sets that deliver enhanced threat detection, superior operations management, high reliability and a low cost of ownership.

We offer a full range of tunnel sizes, as best suits your needs, and all our products are designed in compliance to international safety standards and regulations and integrate easily into larger security architectures.

## Proudly Canadian

All our products are Canadian technology in an ISO 9001 compliant facility.



- 3D Perspective™ dual energy imaging
- Sizes ranging from compact to very large, to accommodate every space and need
- LCD touch screen
- Multilingual operation
- Auto-archiving (over 70,000 sessions)
- One-touch instant view of last 5 bags
- Fully automatic, software-driven tube seasoning
- Network ready
- Automatic built-in test & self diagnosis
- Scanned object counter
- Archive management module
- Administration module
- Secure access key
- Operator training image library
- Bi-directional scanning

- VotiIMAGE™ Image Edge Enhancement (IEE) Black & white and inverse video
- Variable contrast control Digital zoom to 64x, pan and flip
- Dynamic Pseudo Layering
- VotiMAT™ Zeff color image Organic / inorganic stripping
- Zeff based calculation
- VotiDENS™ Automatic High Density Alert (HDA) HD and VHD enhancement
- Extended roller tables
- Extended shrouds (50cm)
- Pressure sensitive mat
- Spare LCD touch screen
- Digital photo of scanned object

## 5 Series

Our 500 Class line is our most compact solution, ideal for mail, small parcel, and small baggage screening.

As these systems fit in smaller areas they work perfectly for critical infrastructures, transportation and border security allowing small bags and mail items to be screened quickly and effectively. These systems were designed to fit easily in entrances, doorways, and cramped areas so they are simple to install in any spot, particularly areas where space is tight.

### XR3D-50s

**Tunnel Opening:** 550 mm wide x 350 mm high (21.7" x 13.8")  
**Best Suited For:** Screening small items in areas with limited space



## 6 Series

Our 600 Class is our best-selling line for a reason: these systems are a great fit for most use cases and easily accommodates mail, parcels, and small and medium-sized baggage like purses, messenger bags and carry-on luggage. These systems are a bit larger than our 500 Class, but still compact enough to fit in many areas and screen high volumes quickly, so they work well for critical infrastructure, transport, correctional facilities, as well as retail and manufacturing for employee screening. Available with long or short conveyor, and with optional dual view.

### XR3D-60, XR3D-60s, XR3D-6D

**Tunnel Opening:** 615 mm wide x 425 mm high (24.2" x 16.7")  
**Best Suited For:** Average-sized screening area that fits most use cases

