

PRODUCT CATALOGUE

VOLUME 1

2017



VERSION 5
APRIL 2017

PEOPLE SCREENING



HAND-HELD METAL DETECTOR WITH 3 SENSITIVITY SETTINGS TO DETECT ALL TYPES OF METAL.

UNIQUE ANGLED DESIGN
RUGGED CONSTRUCTION
DETECTS ALL METALS
LIGHTWEIGHT

MARKETS

- Aviation
- Critical Infrastructure
- Loss prevention
- Event security
- Law enforcement
- Corrections
- Commercial



HAND-HELD METAL DETECTORS ARE AN INTEGRAL PART OF THE PHYSICAL SECURITY SCREENING PROCESS. WITH THE METOR 28, WE HAVE DESIGNED A UNIT THAT BENEFITS SECURITY PERSONNEL AS WELL AS THE PERSON BEING SCANNED. OUR UNIQUE ANGLED DESIGN ALLOWS YOU TO THOROUGHLY SCAN AN INDIVIDUAL, WHILE KEEPING YOUR HAND AWAY FROM THEIR BODY.

ADDITIONAL BENEFITS

- The circular opening assists in pinpointing metal objects
- Comfortable handle for easy control and grip
- Lightweight 260 g (9.3 oz.) with battery
- Wrist strap

DETECTION

Detects all metals, both ferrous and non-ferrous.

SENSITIVITY

A Three (3) sensitivity settings

Detection performance:

- Level 1: small handguns and knives
- Level 2: razor blades, handcuff keys
- Level 3: .22 caliber bullet, metal shanks

OPERATION

3-way push-button operation:
On/Off/Momentary

BATTERY

NiMH rechargeable battery or 9V alkaline battery.
Low battery indicator, both visual and audible.

ALARM

Audible and visual alarm indication.

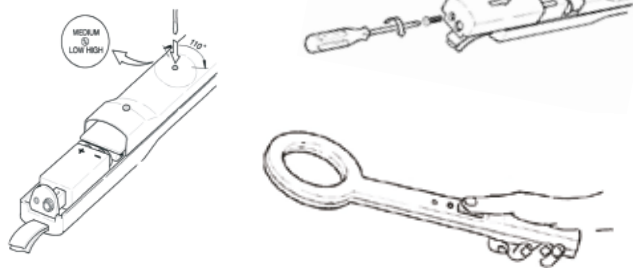
RUGGED CONSTRUCTION

High impact resistant ABS case.

SAFETY

The Metor 28 is safe for people with pacemakers and will not affect magnetic recording media. The magnetic field strength of the Metor 28 meets with the limits set by international standards for human safety.

METOR 28



CONFORMITY

CE Compliant

Conforms with the applicable EU directives.

SPECIFICATIONS

Ambient Operating Temperature	0°C to 50°C (32°F to 122°F)
Power Supply	Standard 9V battery or rechargeable NiMH battery.
Battery Life	Alkaline battery: up to 220h, typical 110h (550mAh battery capacity)*
	Rechargeable NiMH battery: up to 80h, typical 40h (200mAh battery capacity)*
	Recharge time for NiMH battery (200mAh) 14h
	* Up to lifetime based on standby current (no alarm), typical based on 10% alarm / 90% standby as per NIJ Standard-0602.03 (draft 2011)
Dimensions (Body)	410 x 140mm (16.35 x 5.5 in.)
Dimensions (Grip)	33 x 33mm (1.3 x 1.3 in.)
Weight	260 g (9.3 oz.) with battery.

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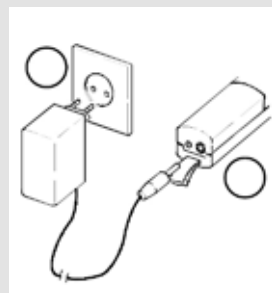
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Rapiscan[®] systems

An OSI Systems Company

OPTIONS AND ACCESSORIES

- Charging Unit: Simple charging connection that plugs directly into the unit.



With continual development of our products Rapiscan Systems reserves the right to amend specifications without notice. Product pictures are for general reference. Please note that due to US laws and regulations, not all Rapiscan products are available for sale in all countries without restriction. Please contact your Rapiscan Systems sales representative for more information.



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ENHANCED SECURITY FEATURES AT CHECKPOINTS AND ACCESS CONTROLLED ENTRIES.

VERSATILE APPLICATIONS

SUPERIOR IMMUNITY

ADVANCED FEATURES FOR
ENHANCED SECURITY

AUTOMATED FEATURES FOR
EASIER USABILITY

IP55 PROTECTION FOR
SHELTERED OUTDOOR USE

MARKETS

- Critical Infrastructure
- Customs and Border Control
- Defense
- Law Enforcement
- Airports
- Courts
- Hospitals
- School Security

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THE METOR 6M IS A VERSATILE MULTI-PURPOSE MULTI-ZONE WALK-THROUGH METAL DETECTOR USED FOR VARIOUS THREAT ITEMS AND CONTRABAND DETECTION.

Typical applications include passenger screening at airports and seaports, visitor screening at courthouses, federal buildings and prisons, access control in conferences, public buildings, sporting or other special events, stadiums and concerts, employee and visitor screening in power plants or factories as well as screening in hotels, restaurants, casinos, and night clubs.



INDEPENDENT ZONES PROVIDE FOR:

- Superior discrimination
- Reliable detection of threat items
- High traffic throughput
- Reliable location of threats

RADIATION DETECTION

Metor 6M can be integrated with radiation detection capability to combine multi threat detection of both metal and radioactive materials. The configuration enables either gamma or gamma/neutron detection options and is available as a field upgradeable kit.

ENHANCED SECURITY

The latest features for advanced security are available on the Metor 6M. Calibration guard, power guard and ready-state violation all protect against unwanted tampering to the unit. Fully configurable user levels allow for unprecedented control over who can view and change settings on the Metor 6M.

ENHANCED FEATURES FOR EASIER USABILITY

Automated sensitivity and floor sensitivity functions make the calibration process easy, eliminating the time consuming trial and error method.

Automated frequency function selects the optimum operating frequency for the installation environment or in case of side-by-side use of more than one unit.

Preset Detection Programs – The Metor 6M is delivered with multiple preset detection programs based on international standards, ready to use immediately.

RANDOM ALARM FUNCTION

The Metor 6M has a random alarm function that enables security personnel to randomly choose individuals for an additional security check. With the new dual random alarm feature, people who cause a normal alarm are also subject to a random alarm.

INTELLIGENT TRAFFIC COUNTERS FOR RELIABLE STATISTICS

Metor 6M is built with intelligent and virtually invisible traffic counters which are integrated inside the coil panels. Counters are bi-directional with a decrease mode. Alarms, passengers and alarm rates can all be counted.

ZONE DISPLAY

Accurate 20 segment zone display locates the alarmed item(s) on a person quickly making the screening process effective and improving the throughput

EASY TO INSTALL AND OPERATE

With its immunity to electromagnetic interference and vibration, the Metor 6M is easy to install in the most demanding environments. Several units can be placed in close proximity to one another, increasing the level of flexibility when planning an installation site.

METOR 6M



CONFORMITY

Safety Standards

Metor 6M has been tested against and complies with applicable magnetic field standards concerning human exposure and pacemaker safety.

Safety Act

Rapiscan Systems products have been certified by the U.S. Department of Homeland Security for Support Anti-Terrorism by Fostering Effective Technologies (SAFETY) Act of 2002, which provides important benefits to organizations that deploy security technology. For additional information visit [HYPERLINK](http://www.safetysystem.gov) "http://www.safetysystem.gov" www.safetysystem.gov.

CE Compliant
Other Standards



Conforms to the applicable international standards for electrical safety and EMC.
EU Aviation Compliant

SPECIFICATIONS

Ambient Operating Temperature	From -20° C to + 60° C (From -4° F to +140° F)
Humidity	0 to 95%, no condensation
Protection	IP 55 (IEC 60529)
Power Supply	Mains: 90-264 VAC/50-60Hz Battery (optional) : 12 VDC Consumption, typical: 30 W (AC), 25 W (DC)
Alarm	Audible/visible alarm. Alphanumeric display and Zone Display. Relay contact for remote alarm (SPDT)
Sensitivity	100 sensitivity steps in each program. Separate vertical zones with independently adjustable sensitivity from 0-200%.
Calibration	Automatic or manually set.
Interference Suppression	Digital filtering by signal processor. Several operating frequencies to suppress local electrical noise.
Network Connections	MetorNet Remote Security Monitoring System compatible (Ethernet)
Dimensions	Interior: 76 cm (30 in.) Width x 205 cm (81 in.) Height Exterior: 90 cm (35 in.) Width x 224 cm (88 in.) Height x 70 cm (28 in.) Depth
Weight	63 kg (139 lbs.)
Shipping Weight & Volume	Total: shipping weight: 88 kg (194 lbs) shipping volume: .45 m ³ (15.9 cu ft) Coils: shipping weight: 70 kg (154 lbs) shipping volume: .35 m ³ (12.4 cu ft) Crosspiece + electronics: shipping weight: 18 kg (40 lbs) shipping volume: .10 m ³ (3.5 cu ft)

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Rapiscan® systems

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OPTIONS AND ACCESSORIES

- Battery Backup: Up to 8 hours of runtime when no power is available.
- Remote Control Unit: A bi-directional remote control unit enables easy programming as well as copying of the parameters from one unit to other units. This control unit, unique only to the Metor brand of walk-through metal detectors, makes programming several detectors fast and easy. The operation of the control unit is secured with passwords and a code-hopping encryption algorithm to prevent unauthorized access.
- ADA Compliant Crosspiece: ADA compliance extension available for retrofitting the unit. Test Pieces: To assist in calibration and testing.
- MetorNet 3 Pro Web: A Remote Security Management System that collects the statistics on traffic flow and alarm data of Metor walk-through metal detectors and generates easy-to-read reports.
- Traffic Lights: to assist in the smooth flow of people through the unit.
- Additional zone displays: can be added to each corner of both panels to enhance visibility, manage the traffic flow and for flexible installation
- Remote Display Set: for convenient remote monitoring and operation of the unit
- Dolly: for easy relocation of the unit
- Wheels for easy mobility.
- Radiation detection kit for gamma or gamma/neutron detection capability

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EXCEPTIONAL OPERATIONAL PERFORMANCE AND VERSATILE CAPABILITIES FOR HIGH SECURITY CHECKPOINTS.

COMPLIANCE WITH GLOBAL
AVIATION STANDARDS

POWERFUL FEATURES TO
SCREEN LARGE CROWDS

2-DIMENSIONAL LOCATION
DISPLAY ENABLES 60 SEGMENT
ALARM INDICATION

ALARM DISTRIBUTION DATA
COLLECTION CAPABILITY

INDEPENDENTLY ADJUSTABLE
DETECTION ZONES

AUTOMATED AND ADVANCED
FEATURES FOR ENHANCED
SECURITY

SUPERIOR IMMUNITY

MARKETS

- Critical Infrastructure
- Aviation
- Event Security

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METOR 6E IS A STATE-OF-THE-ART WALK-THROUGH METAL DETECTOR DEVELOPED FOR THE MOST DEMANDING HIGH PROFILE SECURITY SCREENING APPLICATIONS.

Developed using the latest technology to meet the strictest requirements set by the international civil aviation authorities.

RADIATION DETECTION

Metor 6E can be integrated with radiation detection capability to combine multi threat detection of both metal and radioactive materials. The configuration enables either gamma or gamma/neutron detection options and is available as a field upgradeable kit.

ADJUSTABLE DETECTION ZONES

Metor 6E has multiple independently adjustable detection zones to ensure uniform detection throughout the aperture.

The Metor 6E uses a unique multi-channel technology combined with powerful processing capacity. This allows for fast collection of information from multiple metal items passing through simultaneously and accurate threat resolution based on the characteristics of the items.

Metor 6E is capable of a throughput rate of over 50 persons per minute only influenced by individual concept of operations.

2-DIMENSIONAL LOCATION FUNCTION

The Metor 6E has an integrated 2-dimensional location display on the exit side of the coil panels. The display indicates the location of the detected metal object(s) by pinpointing either left, right or center position of the height where the item(s) passed through the metal detector. The location display has 20 vertical and 3 horizontal segments resulting in a total resolution of 60 pinpointing segments within the unit's aperture.

The location display has two user selectable modes: 2-dimensional or vertical. In vertical mode the vertical location of the detected item within the unit's aperture is indicated. Timing of the location display is adjustable and the display can be enabled or disabled through the user interface.

ALARM DISTRIBUTION DATA

Allows for more in-depth analysis of alarm locations and assisting in optimization of unit's passenger flow.

EXCELLENT INTERFERENCE IMMUNITY

The carefully selected operating frequencies together with effective digital filtering allow excellent immunity to electromagnetic interference. Furthermore the coil design of the Metor 6E is optimized to minimize external electromagnetic interference. Metor 6E meets with the requirements of applicable standards for Electromagnetic Compatibility. Two or more Metor 6E metal detectors can be operated in close proximity. Side-by-side use does not require synchronization cables.

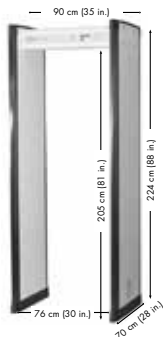
AUTOMATIC INTERACTIVE SENSITIVITY CALIBRATION

An automatic interactive sensitivity calibration function enables the detector's sensitivity to be automatically selected for a specific test object. The user can simply start the "Auto Sensitivity" function and walk through the unit with each test object one at the time. At the end of the process Metor 6E indicates the correct sensitivity level for detecting all the items that were passed through during this process. Additionally, Metor 6E has an automatic interactive floor sensitivity calibration program to help floor level calibration.

AUTOMATED FREQUENCY SEARCH

Metor 6E searches automatically suitable operating frequency during start-up or when the feature is activated from the user interface. This feature can be switched On or Off.

METOR 6E



CONFORMITY

Safety Standards

CE Compliant

Other Standards and Directives



SPECIFICATIONS

Ambient Operating Temperature	From -20° C to + 60° C (From -4° F to +140° F)
Humidity	0 to 95%, no condensation
Protection	IP 55 (IEC 60529)
Power Supply	Mains: 90-264 VAC/50-60Hz Battery (optional): 12 VDC Consumption, typical: 31 W (AC), 26 W (DC) The Metor 6E has the ability to adjust automatically to variations in line voltage from 90 to 264 VAC or 12 VDC without operator intervention or system performance degradation.
Alarm	Audible/visible alarm. Alphanumeric display and Zone Display. Relay contact for remote alarm (SPDT)
Sensitivity	An automatic interactive sensitivity calibration function enables the detector's sensitivity to be automatically selected for a specific test object.
Calibration	Automatic or manually set.
Interference Suppression	Digital filtering by signal processor. Several operating frequencies to suppress local electrical noise.
Network Connections	MetorNet Remote Security Monitoring System compatible (Ethernet)
Dimensions	Interior: 76 cm (30 in.) Width x 205 cm (81 in.) Height Exterior: 90 cm (35 in.) Width x 224 cm (88 in.) Height x 70 cm (28 in.) Depth
Weight	65 kg (143 lbs)
Shipping Weight & Volume	Total: shipping weight: 90 kg (198 lbs) shipping volume: .45 m3 (15.9 cu ft) Coils: shipping weight: 72 kg (159 lbs) shipping volume: .35 m3 (12.4 cu ft) Cross piece + electronics: shipping weight: 18 kg (40 lbs) shipping volume: .10 m3 (3.5 cu ft)

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STANDARD FEATURES

- Remote Control Unit: A bi-directional remote control unit enables easy programming as well as copying of the parameters from one unit to other units. This control unit, unique only to the Metor brand of walk-through metal detectors, makes programming several detectors fast and easy. The operation of the control unit is secured with passwords and a code-hopping encryption algorithm to prevent unauthorized access.
- Traffic Lights: to assist in the smooth flow of people through the unit.

OPTIONS AND ACCESSORIES

- Radiation detection kit for gamma or gamma/neutron detection capability
- Battery Backup: Up to 8 hours of runtime when no power is available.
- ADA Compliant Crosspiece: ADA compliance extension available for retrofitting the unit.
- Test Pieces: To assist in calibration and testing.
- MetorNet 3 Pro Web: A Remote Security Management System that collects the statistics on traffic flow and alarm data of Metor walk-through metal detectors and generates easy-to-read reports.
- Additional zone displays: can be added to the entry side to enhance visibility, for traffic flow management and for flexible installation
- Remote Display Set: for convenient remote monitoring and operation of the unit
- Wheels for additional mobility
- Dolly: for easy relocation of the unit

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Certified to
AS9100C



Product Range

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UNCOMPROMISED DETECTION FOR FAST SECURITY SCREENING IN A COMPACT WEATHERPROOF PACKAGE

LIGHTWEIGHT AND COMPACT

ASSEMBLE/DISASSEMBLE IN FIVE
MINUTES - NO TOOLS REQUIRED

UNCOMPROMISED DETECTION
CAPABILITY

LOW HEIGHT ALLOWS FOR
INSTALLATION IN LOW CEILING
FACILITIES

HIGH VISIBILITY ZONE DISPLAY

WEATHERPROOF CONSTRUCTION
ALLOWS FOR OUTDOOR USE

MARKETS

- Customs and Border Control
- Defense
- Event Security
- VIP Protection
- Commercial
- Entertainment Facilities
- Cruise Lines
- Ports

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METOR 6C IS A VERSATILE, STATE-OF-THE-ART METAL DETECTOR THAT COMBINES ADVANCED METAL DETECTION TECHNOLOGY WITH AN APPEALING, BUT PRACTICAL DESIGN.

Metor 6C is an excellent choice for temporary and permanent installations depending on your application.

SECURITY FOR LARGE CROWDS

Due to its compact design, Metor 6C is well suited for applications where the vertical space is limited e.g. due to low ceiling structure. To assist security personnel in locating threat objects accurately and consistently, Metor 6C is equipped with four zone displays, one at each corner.

WIDE RANGE OF APPLICATIONS

Metor 6C combines a high performance metal detector with compact and durable mechanics as well as a stylish appearance that is suitable for even the most architecturally demanding environments. Weatherproof construction makes Metor 6C ideal for outdoor use.

MOBILE SECURITY

The mechanics of Metor 6C are specifically designed to endure multiple installations in various locations. The unit is simple to install and can be set up by one person in five minutes. Due to its compact structure and lightweight design, Metor 6C can easily be transported from location to location without any tools for set up or dismantle. As an extra benefit for temporary applications, the unit can be transported while fully assembled. Metor 6C comes with ground stabilizers standard and optional carrying cases.

USER FRIENDLY

Metor 6C has a menu-based user interface that enables fast and easy programming. The user can calibrate the unit using pre-set detection programs and automated frequency / sensitivity adjustments or operate the unit with pre-defined calibration that is saved in the unit's memory.

As a safety feature, Metor 6C incorporates a calibration guard that monitors parameter settings. In addition, the unit's cables and connectors are locked inside the crosspiece. Metor 6C is equipped with a power guard that alarms when the unit loses power, (e.g., if the power cord becomes disconnected).

TROUBLE-FREE OPERATION

With its immunity to electromagnetic interference, Metor 6C is easy to install in the most demanding environments. Several units can be placed in close proximity to one another, increasing the level of flexibility when planning an installation site.

TRUE TRAFFIC COUNTERS

Metor 6C features intelligent traffic and alarm counters that calculate traffic flow and resultant alarms. Counters are integrated inside the zone display, counting both increment and decrement, thereby giving a true traffic count.

METOR 6C



CONFORMITY

Safety Standards

Meteor 6C has been tested against and complies with applicable magnetic field standards concerning human exposure and pacemaker safety.

CE Compliant

Conforms to the applicable international standards for electrical safety and EMC.

SPECIFICATIONS

Ambient Operating Temperature

From -20° C to + 60° C (From -4° F to +140° F)

Humidity

0 to 100% RH

Protection

IP 55 (IEC 60529)

Power Supply

Mains: 90-264 VAC/50-60Hz

Battery (optional): 12 VDC

Consumption, typical: 40 W (AC), 30 W (DC)

The Meteor 6C has the ability to adjust automatically to variations in line voltage from 90 to 264 VAC or 12 VDC without operator intervention or system performance degradation.

Alarm

Adjustable audible and visual alarm.

2 x 20 character alphanumeric display and zone display. Alarm relay contact.

Alarm Time

Adjustable

Sensitivity

100 sensitivity steps in each program. Separate floor level sensitivity adjustment.

Calibration

Automatic Sensitivity Calibration for overall sensitivity and Automatic Floor Sensitivity Calibration or manual sensitivity setting. An automatic sensitivity function selects the appropriate sensitivity for a specific weapon or test object. This eliminates the time consuming trial and error method.

Interference Suppression

Digital filtering. Multiple operation frequencies. Automatic Frequency Search.

Power Guard

Monitors the input power giving a warning when the unit loses power.

Calibration Guard

Monitors calibration parameters and gives a warning when any of the saved calibration parameter values are changed.

Self-Testing Diagnostics

User-friendly diagnostics identify fault condition.

Network Connections

MeteorNet Remote Security Monitoring System compatible (Ethernet)

Dimensions

Interior: 76 cm (30 in.) Width x 191 cm (75 in.) Height

Exterior: 101 cm (40 in.) Width x 209 cm (82 in.) Height x

35 cm (14 in.) Depth

Weight

38 kg (84 lbs)

Shipping Weight & Volume

Total: shipping weight: 66 kg (145 lbs)

shipping volume: 0.36 m³ (12.7 cu ft)

Coils: shipping weight: 50 kg (110 lbs)

shipping volume: 0.29 m³ (10.2 cu ft)

Cross piece + electronics: shipping weight: 16 kg (35 lbs)

shipping volume: .07 m³ (2.5 cu ft)

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OPTIONS AND ACCESSORIES

- Battery Backup: Up to 8 hours of runtime when no power is available.
- ADA Compliant Crosspiece: 32 in. crosspieces are available to meet ADA compliance for wheelchair accessibility.
- Remote Control Unit: A bi-directional remote control unit enables easy programming as well as copying of the parameters from one unit to other units. This control unit, unique only to the Meteor brand of walk-through metal detectors, makes programming several detectors fast and easy. The operation of the control unit is secured with passwords and a code-hopping encryption algorithm to prevent unauthorized access.
- Integrated Traffic Lights: Meteor 6C can be equipped with clearly marked traffic lights on the crosspiece to optimize the traffic flow and speed up the throughput rate.
- MeteorNet 3 Pro Web: A Remote Security Management System that collects the statistics on traffic flow and alarm data of Meteor walk-through metal detectors and generates easy-to-read reports.

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HIGH SENSITIVITY WALK-THROUGH METAL DETECTOR FOR PRISONS AND FACILITY ASSET PROTECTION.

NIJ 0601.02 STANDARD
COMPLIANT

SUPERIOR IMMUNITY

INDEPENDENTLY ADJUSTABLE
DETECTION ZONES

ENHANCED SECURITY
FEATURES

AUTOMATED FEATURES FOR
USABILITY

LOCATION DISPLAY

MARKETS

- Law Enforcement
Prisons, Courts, Jails
- Loss Prevention
Electronics industry, jewelry
manufacturing, mints
- Airports

METOR 6S



THE METOR 6S HIGH SENSITIVITY WALK-THROUGH METAL DETECTOR IS DESIGNED SPECIFICALLY FOR DETECTING SMALL FERROUS AND NON-FERROUS ITEMS, SUCH AS DISPOSABLE PRISON RAZORS, A PIECE OF RAZOR BLADE, METAL SHANKS, HANDCUFF KEYS, DETONATOR CAPS, JEWELRY, COINS, MICROPROCESSOR AND MEMORY CHIPS.

The Metor 6S increases safety in prisons and jails by efficiently detecting small metal objects that can be used as weapons, even when they are hidden in body cavities. When used in manufacturing and distribution facilities to protect small, valuable assets, the Metor 6S raises profitability by deterring employee theft.

NIJ STANDARD 0601.02

The Metor 6S complies with NIJ Standard 0601.02, fulfilling the requirements for corrections and law enforcement agencies. Preset programs which meet the different security levels defined by NIJ are immediately available.

ENHANCED SECURITY

The latest features for advanced security are available on the Metor 6S. Calibration guard, power guard and ready-state violation all protect against unwanted tampering to the unit. Fully configurable user levels allow for unprecedented control over who can view and change settings on the Metor 6S.

ENHANCED FEATURES FOR EASIER USABILITY

Automated sensitivity and floor sensitivity functions make the calibration process easy, eliminating the time consuming trial and error method.

Automated frequency function selects the optimum operating frequency for the installation environment or in case of side-by-side use of more than one unit.

Preset Detection Programs – The Metor 6S is delivered with multiple preset detection programs for the different levels of NIJ-0601.02 as well as for the detection of small magnetic or non-magnetic items and objects made of mixed alloys, ready to use immediately.

RADIATION DETECTION

Metor 6S can be integrated with radiation detection capability to combine multi threat detection of both metal and radioactive materials. The configuration enables either gamma or gamma/neutron detection options and is available as a field upgradeable kit.

RANDOM ALARM FUNCTION

The Metor 6S has a random alarm function that enables security personnel to randomly choose individuals for an additional security check.

With the new dual random alarm feature, people who cause a normal alarm are also subject to a random alarm.

INTELLIGENT TRAFFIC COUNTERS FOR RELIABLE STATISTICS

Metor 6S is built with intelligent and virtually invisible traffic counters which are integrated inside the coil panels. Counters are bi-directional with a decrease mode. Alarms, people and alarm rates can all be counted.

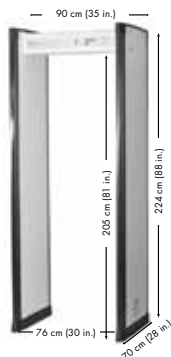
EASY TO INSTALL AND OPERATE

With its immunity to electromagnetic interference, the Metor 6S is easy to install in the most demanding environments. Several units can be placed in close proximity to one another, increasing the level of flexibility when planning an installation site.

LOCATION DISPLAY

20 segment zone display locates the alarmed item(s) on a person quickly enhancing the screening process and throughput

METOR 6S



CONFORMITY

Safety Standards

Meteor 6S has been tested against and complies with applicable magnetic field standards concerning human exposure and pacemaker safety.

Safety Act

Rapiscan Systems products have been certified by the U.S. Department of Homeland Security for Support Anti-Terrorism by Fostering Effective Technologies (SAFETY) Act of 2002, which provides important benefits to organizations that deploy security technology. For additional information visit www.safetyact.gov.

CE Compliant

Conforms to the applicable international standards for electrical safety and EMC.

Other Standards and Directives

The Meteor 6S complies with NJ Standard 0601.02, fulfilling the requirements for corrections and law enforcement agencies.

SPECIFICATIONS

Ambient Operating Temperature	From -20° C to + 60° C (From -4° F to +140° F)
Humidity	0 to 95%, no condensation
Protection	IP 55 (IEC 60529)
Power Supply	Mains: 90-264 VAC / 50-60 Hz Battery (optional): 12 VDC Consumption, typical: 30W (AC), 25W (DC)
Alarm	Audible/visible alarm. Alphanumeric display and Zone Display. Relay contact for remote alarm (SPDT)
Sensitivity	100 sensitivity steps in each program. Separate vertical zones with independently adjustable sensitivity from 0-200%.
Calibration	Automatic or manually set.
Interference Suppression	Digital filtering by signal processor. Several operating frequencies to suppress local electrical noise.
Network Connections	MeteorNet Remote Security Monitoring System compatible (Ethernet)
Dimensions	Interior: 71 cm (28 in.) Width x Interior: 205 cm (81 in.) Height Exterior: 85 cm (33 in.) Width x 224 cm (88 in.) Height x 70 cm (28 in.) Depth
Weight	63 kg (139 lbs.)
Shipping Weight & Volume	Total: shipping weight: 88 kg (194 lbs) shipping volume: .45 m ³ (15.9 cu ft) Coils: shipping weight: 70 kg (154 lbs) shipping volume: .35 m ³ (12.4 cu ft) Crosspiece + electronics: shipping weight: 18 kg (40 lbs) shipping volume: .10 m ³ (3.5 cu ft)

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OPTIONS AND ACCESSORIES

- Radiation detection kit for gamma or gamma/neutron detection capability.
- Battery Backup: Up to 8 hours of runtime when no power is available.
- Remote Control Unit: A bi-directional remote control unit enables easy programming as well as copying of the parameters from one unit to other units. This control unit, unique only to the Meteor brand of walk-through metal detectors, makes programming several detectors fast and easy. The operation of the control unit is secured with passwords and a code-hopping encryption algorithm to prevent unauthorized access.
- MeteorNet 3 Pro Web: A Remote Security Management System that collects the statistics on traffic flow and alarm data of Meteor walk-through metal detectors and generates easy-to-read reports.
- Traffic Lights: to assist in the smooth flow of people through the unit.
- Additional Zone Display: to the entry side for improved visibility, traffic flow management and flexibility in installation.
- Remote Display Set for convenient remote monitoring and operation of the unit.
- Dolly: for easy relocation of the unit.
- Wheels for additional mobility

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UNCOMPROMISED DETECTION FOR FAST SECURITY SCREENING OF LARGE GROUPS OF PEOPLE.

IP65 - FULLY WEATHERPROOF AS
STANDARD

LIGHTWEIGHT AND ROBUST
MOBILE MULTI-ZONE

ASSEMBLE/DISASSEMBLE IN FIVE
MINUTES - NO TOOLS REQUIRED

UNCOMPROMISED DETECTION
CAPABILITY

USER FRIENDLY AND TROUBLE FREE

BATTERY OPERATION

MARKETS

- Customs and Border Control
- Defense
- Critical Infrastructure
- Event Security
VIP Protection
- Commercial
Entertainment Facilities

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METOR 6WP



THE METOR 6WP IS A VERSATILE, STATE-OF-THE-ART METAL DETECTOR THAT COMBINES ADVANCED METAL DETECTION TECHNOLOGY WITH AN APPEALING, BUT PRACTICAL DESIGN.

The Metor 6WP is an excellent choice for temporary and permanent installations, for both outdoor and indoor applications.

SECURITY FOR LARGE CROWDS

Due to superb discrimination features, the Metor 6WP is well suited for fast security screening of large groups of people. To assist security personnel in locating threat objects accurately and consistently, the Metor 6WP is equipped with two zone displays.

WIDE RANGE OF APPLICATIONS

The Metor 6WP combines a high performance metal detector with compact and durable mechanics as well as a stylish appearance that is suitable for even the most architecturally demanding environments. An IP65 protection class makes the Metor 6WP ideal for outdoor use.

MOBILE SECURITY

The mechanics of the Metor 6WP are specifically designed to endure multiple installations in various locations. The unit is simple to install and can be set up by one person in five minutes. Due to its compact structure and light weight design, the Metor 6WP can easily be transported from location to location without any tools for set up or dismantle. As an extra benefit for temporary applications, the unit can be transported while fully assembled. The Metor 6WP comes with ground stabilizers standard and optional carrying cases.

USER FRIENDLY

The Metor 6WP has a menu-based user interface that enables fast and easy programming. The user can calibrate the unit using pre-set detection programs and automated frequency / sensitivity adjustments or operate the unit with pre-defined calibration that is saved in the unit's memory.

As a safety feature, the Metor 6WP incorporates a calibration guard that monitors parameter settings. In addition, the unit's cables and connectors are locked inside the crosspiece. The Metor 6WP is equipped with a power guard that alarms when the unit loses power, (e.g., if the power cord becomes disconnected).

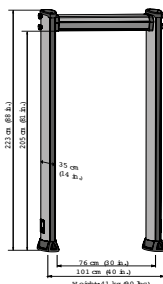
TROUBLE-FREE OPERATION

With its immunity to electromagnetic interference and, the Metor 6WP is easy to install in the most demanding environments. Several units can be placed in close proximity to one another, increasing the level of flexibility when planning an installation site.

TRUE TRAFFIC COUNTERS

The Metor 6WP features intelligent traffic and alarm counters that calculate traffic flow and resultant alarms. Counters are integrated inside the zone display, counting both increment and decrement, thereby giving a true traffic count.

METOR 6WP



CONFORMITY

Safety Standards

Metor 6WP has been tested against and complies with applicable magnetic field standards concerning human exposure and pacemaker safety.

Safety Act

Rapiscan Systems products have been certified by the U.S. Department of Homeland Security for Support Anti-Terrorism by Fostering Effective Technologies (SAFETY) Act of 2002, which provides important benefits to organizations that deploy security technology. For additional information visit www.safetyact.gov

CE Compliant

Conforms to the applicable international standards for electrical safety and EMC.

SPECIFICATIONS

Ambient Operating Temperature	From -20° C to +60° C [From -4° F to +140° F]
Humidity	0 to 100% RH
Protection	IP65 [IEC 60529]
Power Supply	Mains: 90 - 264 VAC / 50-60 Hz Battery (optional): 12 VDC Consumption, typical: 40 W (AC), 30 W (DC)
Alarm	Adjustable audible and visual alarm. 2 x 20 character alphanumeric display and zone display. Alarm relay contact.
Sensitivity	100 sensitivity steps in each program. Separate floor level sensitivity adjustment.
Calibration	Automatic Sensitivity Calibration for overall sensitivity and Automatic Floor Sensitivity Calibration or manual sensitivity setting. An automatic sensitivity function selects the appropriate sensitivity for a specific weapon or test object. This eliminates the time consuming trial and error method.
Interference Suppression	Digital filtering. Multiple operation frequencies. Automatic Frequency Search.
Power Guard	Monitors the input power giving a warning when the unit loses power.
Calibration Guard	Monitors calibration parameters and gives a warning when any of the saved calibration parameter values are changed.
Self-Testing Diagnostics	User-friendly diagnostics identify fault condition.
Network Connections	MetorNet Remote Security Monitoring System compatible (Ethernet)
Dimensions	Interior: 76cm [30 in.] Width x Interior: 205 cm [81 in.] Height Exterior: 101 cm [40 in.] Width x 223 cm [88 in.] Height x 35 cm [14 in.]
Depth	
Weight	41 kg (90 lbs.)
Shipping Weight & Volume	Total: shipping weight: 69 kg [152 lbs] shipping volume: 0.36 m ³ [12.7 cu ft] Coils: shipping weight: 53 kg [117 lbs] shipping volume: 0.29 m ³ [10.2 cu ft] Crosspiece + electronics: shipping weight: 16 kg [35 lbs] shipping volume: 0.07 m ³ [2.5 cu ft]

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STANDARD

- Stabilizer set to provide more stable footing.

OPTIONS AND ACCESSORIES

- Battery Backup: Up to 8 hours of runtime when no power is available.
- Remote Control Unit: A bidirectional remote control unit enables easy programming as well as copying of the parameters from one unit to other units. This control unit, unique only to the Metor brand of walk-through metal detectors, makes programming several detectors fast and easy. The operation of the control unit is secured with passwords and a code-hopping encryption algorithm to prevent unauthorized access.
- Integrated Traffic Lights: The Metor 6WP can be equipped with clearly marked traffic lights on the crosspiece to optimize the traffic flow and speed up the throughput rate.
- ADA Compliant Crosspiece: 32 in. crosspieces are available to meet ADA compliance for wheelchair accessibility.
- MetorNet 3 Pro Web: A Remote Security Management System that collects the statistics on traffic flow and alarm data of Metor walk-through metal detectors and generates easy-to-read reports.
- Test Pieces: to assist in calibration and testing
- Remote Display Set: for convenient remote monitoring and operation of the unit.
- Carrying Bags: for easy to transport from storage to screening site of strong dirt resistant Polyester material.
- Adjustable Stabilizers: for uneven surfaces.
- Wheels: for additional mobility.
- Cover: for additional protection against elements when stored outdoors.
- Soft shell storage and transportation container: for additional protection
- Tiedown kit: for fixing the unit firmly to the ground in extreme weather conditions.

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METOR 6WP ACCESSORIES

CARRYING BAGS

Allows for convenient carrying of Metor 6WP in four (4) bags. No bag will weigh more than 18 kg / 39 lbs. Soft bags fit securely two coil panes.

P/N 20500000 CARRYING BAGS



Includes:

- 2 X coil panel bag
- 1 X crosspiece bag
- 1 X stabilizer set bag

TIE-DOWN KIT

An additional accessory to fix the unit securely into the ground at the screening site even in most extreme weather conditions. The use of tie down kit will prohibit the unit from falling down due to wind and/or from unruly people knocking it down.

P/N 20108463 TIE-DOWN KIT



- To fasten the unit to the ground at extreme weather conditions

ADJUSTABLE STABILIZERS

An additional accessory available to stabilize the unit on uneven ground. The finger screws enable the balancing of the unit to assist in locations where the ground is not flat. Enables proper use of the unit and prohibits the unit from falling down in windy conditions and/or from people knocking it down accidentally.

P/N 20104592 ADJUSTABLE STABILIZERS



- For uneven surfaces
- To stop the unit from falling down



METOR 6VWP ACCESSORIES

P/N 40113607 COVER



P/N 20108460 STORAGE CONTAINER



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COVER

The basic function for the cover is to provide additional protection for the Metor 6VWP when the unit is not in use but stored outside exposed to the elements. The material is durable weather resistant Terrain X-Pac allowing the unit's storage even in extreme weather.

STORAGE CONTAINER

In order to safely transport and store Metor 6VWP unit, an additional protective soft shell storage container IS AVAILABLE. The external material is durable water resistant Nylon 100D and the internal is made of molded foam plastic for tight fit stopping the parts from moving around during transportation. The container weighs 15 kg / 33 lbs.

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Product Range

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INTEGRATED HIGH PERFORMANCE RADIATION DETECTION FOR WALK- THROUGH METAL DETECTORS.

AUTOMATICALLY DETECTS
RADIOACTIVE MATERIALS

DETECTS GAMMA AND
NEUTRON RADIATION

PERFORMANCE MEETS
REGULATORY STANDARDS

SIMULTANEOUS METAL
DETECTION CAPABILITY
MAINTAINED

MARKETS

- Aviation
- Critical Infrastructure
 - Nuclear Power Plants
 - Nuclear Research Facilities
 - Government Facilities
- Customs and Border Protection
- Event Security
- Defense
- Law Enforcement

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METOR RADIATION DETECTION



RAPISCAN'S METOR WALK-THROUGH METAL DETECTORS ARE AVAILABLE WITH OPTIONAL RADIATION DETECTION CAPABILITIES IN A SINGLE INTEGRATED SYSTEM FOR PEOPLE SCREENING.

SIMULTANEOUS METAL DETECTION CAPABILITY MAINTAINED

Rapiscan's Meteor walk-through metal detectors are available with optional radiation detection capabilities in a single integrated system for people screening. Rapiscan's proven radiation inspection technology detects gamma radiation and optionally neutron radiation from a wide range of radioactive materials. The radiation detection performance meets the requirements of applicable standards for pedestrian security inspection. With the radiation detection option, people are automatically inspected for both metallic and radioactive materials as they walk through the unit. The user-friendly inspection operation is the same as for metal detection alone. Radiation inspection alarms are clearly signaled visually and audibly. The radiation detection option is available with a new Meteor walk-through metal detector unit or as a field upgradeable enhancement to a deployed unit.

AUTOMATICALLY DETECTS RADIOACTIVE MATERIALS

The Meteor radiation detection capability automatically detects gamma and optionally neutron radiation from a wide range of radioactive materials, including industrial, medical and special nuclear materials.

RADIATION DETECTION MEETS STANDARDS

The gamma radiation detection performance meets the requirements of ANSI, IEC standards for pedestrian security inspection.

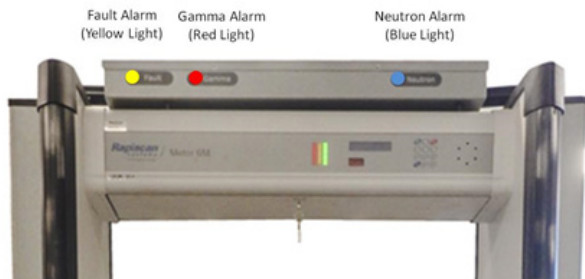
PROVEN RELIABLE RADIATION INSPECTION TECHNOLOGY

Rapiscan's radiation inspection technology has been proven in the reliable operation of thousands of Rapiscan radiation monitors deployed in more than 50 countries.

FULLY INTEGRATED WITH METOR WALK- THROUGH METAL DETECTORS

The addition of radiation inspection makes no changes to the Meteor walk-through metal detector capabilities and people screening operation. The integrated unit fits in the same space with no modification of the screening checkpoint. Because the Rapiscan radiation detection technology ignores scattered X-rays, the unit can be located near a checkpoint X-ray scanner.

METOR RADIATION DETECTION



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SPECIFICATIONS

Integrated with Metor 6M/6E

External Depth	70cm (28in)
External Height	230cm (90.6in)
External Width	102cm (40in) or 107cm (42in) for ADA compliant model
Weight	
Metor 6M	127kg (280lb) gamma; 136kg (300lb) gamma-neutron
Metor 6E	131kg (282lb) gamma; 140kg (302lb) gamma-neutron

PERFORMANCE SPECIFICATIONS

Radiation Detection	Meets ANSI N42.35 and IEC 62244 for gamma radiation detection
Isotope Detection	Detects isotopes defined in standards
Background	Monitors and adjusts for background
Detection Coverage	Full height of person

OPERATION

Inspection Mode	Walk-through at standard pace
Alarms	Signaled with lights and buzzer
Power	12VDC supplied from Metor 6M/ 6E/ 6S

OPERATING ENVIRONMENT

Temperature	-20°C to 50°C
Humidity	0 to 95% non-condensing
Environment	IP41
Safety	CE certified
Compatibility	Metor 6M, Metor 6E, Metor 6S

CONFIGURATIONS

Gamma Detection	Metor 6M, 6E, 6S with gamma radiation detection
Gamma and Neutron Detection	Metor 6M, 6E, 6S with gamma and neutron radiation detection

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D00095-4 032417

METOR TRANSLATOR IS A UTILITY WINDOWS APPLICATION THAT CAN BE USED TO EASILY TRANSLATE THE USER INTERFACE TEXTS OF METOR WALK THROUGH METAL DETECTORS.

TRANSLATION TOOL FOR
METOR UI INTO YOUR LOCAL
LANGUAGE

LOCALIZE AND DIFFERENTIATE
YOUR WTMDS

APPLICABLE FOR METOR 6
SERIES WTMDS

METOR TRANSLATOR TOOL



English User Interface

METOR METAL DETECTOR'S USER INTERFACE (UI) CONSISTS OF A TREE-LIKE MENU SYSTEM THAT IS USED TO ADJUST METOR'S PARAMETERS AND CALIBRATION.

The user interface is operated using a display set (MDPS) with a two row alphanumeric LCD and a 12-key keypad. All menu contents, error messages etc. are described by using a Metor UI-file, a specific text-file format. Default language for Metor UI is English. Translating the Metor UI to other languages requires translating all the English text strings in the UI to the target language and generating a new UI-file. Translating Metor UI into your local language can assist in the use and set-up of the WTMD and will make the operation of the unit very user friendly. Metor Translator was made to simplify this process.

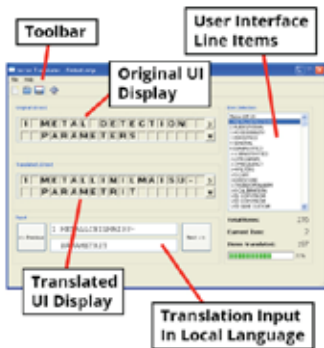
Using Metor Translator, the person responsible for the actual translation doesn't have to know anything about the technical details of the Metor UI-file format. Instead, the English UI-file can be loaded to Metor Translator, where each item is shown exactly as Metor MDPS would show them. The person translating can then enter the translation for the item and see also how the translation would appear on the MDPS. When all items are translated, a new UI-file for the target language can be generated automatically. Via use of a SD card, the translated UI can be immediately loaded into the Metor model in question.



Katakana (Japanese) User Interface

METOR TRANSLATOR TOOL

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00	00P`P`	-タミexp
01	!1AQaQ	ア743aq
02	"2BRbr	イ743br
03	#3CScs	ウ743cs
04	\$4DTdt	エ743dt
05	%5EUeu	オ743eu
06	&6Fufv	カ743fv
07	*7Gw9w	ク7439w
08	(8HXhx	ク743hx
09	>9IYiy	ク743iy
10	*:JZjz	ク743jz
11	+;K[k[	ク743k[
12	.,[LYll	ク743ll
13	-~P[m]	ク743m]
14	>N`n+	ク743n+
15	?/O`o+	ク743o+

Available characters for the Metor Translator Tool

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Dec-16

Part Number	Accessories	Metor 6E	Metor 6M	Metor 6C	Metor 6S	Metor 6WP
20108470	Crosspiece Extension Set (extends the standard 30"/76cm crosspiece length to 32"/81cm)					
23110793	Crosspiece Extension Set (extends the standard 30"/76cm crosspiece length to 32"/81cm)					
20102858	MBBS 5238 Battery Back-Up Set					
8101188	MBBS 5206 Battery Back-Up Set					
20106468	MRCS 5116 Remote Control Set with Holder					
8100774	MTLS 5169 Traffic Light Set					
23108484	RX Panel Zone Display Set					
8101226	MZDS 5214 Zone Display Set with IR TX (second zone display to be mounted on TX or panel 1)					
23106474	MZDS 5268 Zone Display Set with IR RX (second zone display to be mounted on RX or panel 2)					
20106433	MRDS 5259 Remote Display Set					
23105675	Dolly					
20104592	Stabilizer Set for uneven surface (2 pcs)					
20500000	Carrying Bag Set: 2 x Coil Panel Bag 1 x Crosspiece Bag 1 x Stabilizer Bag					
20108463	Tie down kit for Metor 6WP					
3061001	FAA Operational Test Piece					
20107589	Metal Detector Test Kit EU3: HGF 22 (Encapsulated handgun frame simulant) HGF 32 (Encapsulated handgun frame simulant) CSK 10 (Encapsulated 10 cm carbon steel knife) CSK 8 (Encapsulated 8 cm carbon steel knife) SSK 12 (Encapsulated 12 cm stainless steel knife) SSK 10 (Encapsulated 10 cm stainless steel knife)					
20107591	Metal Detector Test Kit DG: HGF 22 (Encapsulated handgun frame simulant) HGF 32 (Encapsulated handgun frame simulant)					
89106452	CSK 10 (Encapsulated 10 cm carbon steel knife)					

included as standard	
available as accessory or option	

METORNET 3 PRO WEB

BRING MULTIPLE
WALK-THROUGH
METAL DETECTOR
DATA TO
THE REMOTE
DESKTOP FOR
MANAGING AND
MONITORING.

CENTRALIZED SECURITY
MANAGEMENT

REMOTE MONITORING AND
MANAGEMENT

STATISTICS COLLECTION AND
REPORTING

MARKETS

- Critical Infrastructure
- Aviation
- Defense
- Law Enforcement
Prisons and Correctional Facilities
- Commercial
Entertainment Facilities
Loss Prevention



METORNET 3 PRO WEB IS A WINDOWS BASED REMOTE SECURITY MANAGEMENT SYSTEM THAT BRINGS METAL DETECTOR DATA TO YOUR DESKTOP.

It enables monitoring of passenger information, passenger data collection and processing with versatile reporting tools, as well as monitoring and management of the parameters of Metor family walk-through metal detectors.

COLLECTS STATISTICS

MetorNet 3 Pro Web collects statistics from the Metor walkthrough metal detectors with passenger and alarm counters. These statistics can be summarized, shared by e-mail and printed in easy-to-read reports. You can use either standard reporting templates or create and save your own reporting shortcuts for reports most commonly used.

MONITORS PASSENGER FLOW

The monitoring view in MetorNet 3 Pro Web allows you to see the traffic and alarm levels of the Metors connected into network. The view gives you a quick overall look of lines with high traffic, helping you to allocate your resources better.

MAINTAINS SECURITY

Whenever there is a deviation from the original settings stored in the MetorNet. The operator receives a written message in MetorNet 3 Pro Web. This feature quickly indicates any misuse of the gate and increases the overall security level.

PLUG AND PLAY

Because MetorNet 3 Pro Web utilizes existing Ethernet cabling at the customer's premises, adding new Rapiscan Systems Metor metal detectors to the MetorNet 3 Pro Web network is very easy and cost effective.

Multiple metal detectors can be connected to one network. The gates can be grouped and identified individually and/or by group name.

Even from mobile phones, MetorNet Web user interface operates over a standard web browser.

SUPERIOR SYSTEM SECURITY

The MetorNet 3 Pro Web can be accessed from remote locations over Extranet or public Internet (requires VPN tunnel). The user rights can be freely configured by the admin. Each user can have an individual password to prevent unauthorized access.

COST EFFECTIVE

MetorNet 3 Pro Web saves on operation costs by enabling efficient allocation of resources. It fits into an existing Ethernet network and operates on a standard PC with Windows.

METORNET 3 PRO WEB

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FRM-MA-024-2 032417

BAGGAGE AND PARCEL INSPECTION



A VERSATILE, MOBILE AND POWERFUL X-RAY INSPECTION SYSTEM FOR SCREENING IN SMALL SPACES.

VERSATILE SCREENING SYSTEM

COMPACT DESIGN

PORTABLE

NETWORK ENABLED

COST EFFECTIVE

STANDARD FEATURES

- Multi Energy Imaging (4 Color)
- View Previous/Next Bag
- Image Archive
- Configurable Image Processing Keys
- Baggage Counter
- Date / Time Display
- Search Indicator
- UPS (Uninterrupted Power Supply)
- Flat Panel Monitor
- Multi Language Support

STANDARD IMAGE PROCESSING FUNCTIONS

- Crystal Clear™
- Black and White
- Organic / Inorganic Stripping
- Inverse Video
- High Penetration
- Pseudo Color
- Low Penetration
- Variable Edge Enhancement
- Variable Color Stripping
- Variable Gamma
- Variable Density
- Dynamic Continuous Zoom & Panning
- Fixed Zoom (64x)

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RAPISCAN 618XR



Tunnel Opening (width x height):
550 X 360 mm (21.7 x 14.2 in)

THE RAPISCAN 618XR IS A COMPACT AND VERSATILE X-RAY SCREENING SYSTEM WITH EXCEPTIONAL IMAGE QUALITY AND EXCELLENT DETECTION CAPABILITIES.

The 618XR is designed for rapid relocation and can be wheeled through narrow doorways, making it an excellent system for schools, hotels, convention centers and event-based security environments.

Like all systems in the 600 series family of X-ray scanning solutions, the Rapiscan 618XR is built on a standardized platform that makes it easy to install and maintain, and comes with features such as dual-energy detection, a streamlined, ergonomic design, and Rapiscan's feature-rich OS600 system software.

DETECTION OF EXPLOSIVES AND NARCOTICS ALERT

Target™ and NARCScan™ are designed to assist operators in the detection of a range of explosives and narcotics respectively in real time during the scanning process by marking a potential threat on the X-ray image. Rapiscan detection algorithms are based on regulatory material analysis techniques.

EASE OF USE PROVIDING HIGHEST THROUGHPUT

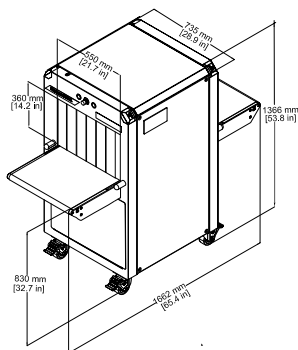
With over 13 image processing tools and detection alert algorithm functions, the feature rich software allows the operator to more easily and accurately search for contraband.

REGULATORY COMPLIANCE

Rapiscan 618XR performance is in full compliance with the European Union regulations (EC) No. 300/2008, (EU) No. 2015/1998 and Commissions Decision C (2015)8005 for aviation security.



RAPISCAN 618XR



PHYSICAL SPECIFICATIONS

Dimensions:	Length: 1,662 mm (65.4 in.) Width: 735 mm (28.9 in.) Height: 1,366 mm (53.8 in.)
Tunnel Size:	550 mm (W) x 360 mm (H) [21.7 x 14.2 in.]
Conveyor Speed:	0.20m/sec (39.4 ft./min)
Conveyor Load (Max):	165 Kg (364 lbs)
Conveyor Height:	830 mm (32.7 in.)
Weight (Approx.):	Net: 425 Kg (937 lbs)
System Power:	115/230 VAC ±10%, 60/50Hz

STANDARD X-RAY GENERATOR AND IMAGE PERFORMANCE¹

Steel Penetration:	30 mm typical; 28 mm standard
Wire Resolution:	40 AWG typical; 38 AWG standard
Generator Cooling:	Sealed oil bath with forced air
Anode Voltage:	Operating at 140kV
Tube Current:	0.7 mA
Orientation:	Vertically Upward

OPERATING ENVIRONMENT

Storage Temperature:	-20°C to 50°C
Operating Temperature:	0°C to 40°C
Relative Humidity:	5 to 95% non-condensing

PROTECTION CLASS

System:	IP20
Operator Control Panel:	IP43 ²

REGULATORY

- Regulation (EC) No. 300/2008 Compliant
- Regulation (EU) No. 2015/1998 Compliant
- EU Commissions Decision (EU) C(2015) 8005 Compliant
- French Civil Aviation Authority (STAC) Certified

HEALTH & SAFETY

Rapiscan Systems' cabinet X-ray products comply with all applicable U.S. FDA and equivalent international regulatory agency requirements, contained in the cabinet X-ray radiation safety performance standard [21 CFR 1020.40] and the general performance standard [21 CFR Part 1010] as well as IEC standard 61010-2-091.

Rapiscan baggage and parcel inspection systems radiation emission leakages are well below the required regulatory limits with less than 1 µSv/hr at 10 cm from all surfaces of cabinet X-ray.

Rapiscan® systems

An OSI Systems Company

OPTIONS AND ACCESSORIES

- Explosives Detection Alert (Target™)
- Narcotics Detection Alert (NARCScan™)
- Density Threshold Alert (DTA)
- Threat Image Projection (TIP)
- Threat Image Projection Network (TIPNet)
- Remote Image Archive Review (NETView™)
- Network X-ray management automation and Link system (NEXLink™)
- Multi-System Network Display Station (NDS)
- Automatic Image Archiving
- Enhanced Image Archiving
- Operator Training Program (OTP)
- Manual Scan
- Operator Pedestal
- Foot Mat
- Optical Operator Presence Sensor
- SmartCard Login
- Power Conditioner
- Conveyor Accessories
- Universal Printer Support

¹ Stated performance as measured by Rapiscan Imaging Validation Test Kit.

² With optional replaceable cover.

With continual development of our products Rapiscan Systems reserves the right to amend specifications without notice. Product pictures are for general reference. Please note that due to US laws and regulations, not all Rapiscan products are available for sale in all countries without restriction. Please contact your Rapiscan Systems sales representative for more information.

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Rapiscan Systems is AS9100C:2009 and ISO 14001:2004 + Cor. 1:2009 Certified

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A VERSATILE, COMPACT X-RAY INSPECTION SYSTEM WITH OUTSTANDING IMAGE QUALITY

MEETS ALL EUROPEAN
COMMISSION AVIATION
SCREENING REQUIREMENTS

SINERGY™ LOW DENSITY
IMAGE ENHANCEMENT

COMPACT DESIGN, PORTABLE

EXPLOSIVES AND
NARCOTICS DETECTION

STANDARD FEATURES

- Multi Energy Imaging (4 Color)
- View Previous/Next Bag
- Image Archive
- Configurable Image Processing Keys
- Baggage Counter
- Date / Time Display
- Search Indicator
- UPS (Uninterrupted Power Supply)
- Flat Panel Monitor
- Multi Language Support

STANDARD IMAGE PROCESSING FUNCTIONS

- Crystal Clear™
- SINERGY™
- Black and White
- Organic / Inorganic Stripping
- Inverse Video
- High Penetration
- Low Penetration
- Pseudo Color
- Variable Edge Enhancement
- Variable Color Stripping
- Variable Gamma
- Variable Density
- Dynamic Continuous Zoom & Panning
- Fixed Zoom (64x)

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HIGH PERFORMANCE RAPISCAN 618XR hp



TUNNEL OPENING (W X H):
540 X 360 MM (21.3 X 14.2 IN)

THE NEW RAPISCAN 618XR hp IS A HIGH PERFORMANCE COMPACT AND VERSATILE 540 MM BY 360 MM TUNNEL X-RAY SYSTEM WITH EXCEPTIONAL IMAGE QUALITY AND EXCELLENT THREAT DETECTION ALERT CAPABILITIES.

The Rapiscan 618XR hp complies with European Commission aviation screening requirements.

DETECTION OF EXPLOSIVES AND NARCOTICS ALERT

Target™ and NARCScan™ are designed to assist operators in the detection of a range of explosives and narcotics respectively in real time during the scanning process by marking a potential threat on the X-ray image. Rapiscan detection algorithms are based on regulatory material analysis techniques.

GOVERNMENT REGULATORY COMPLIANCE

Rapiscan 618XR hp performance is in full compliance with the mandatory regulations (EC) No. 300/2008, (EU) No. 185/2010 and Commissions Decision C(2010)774 for aviation security in the European Union.

EASE OF USE PROVIDING HIGHEST THROUGHPUT

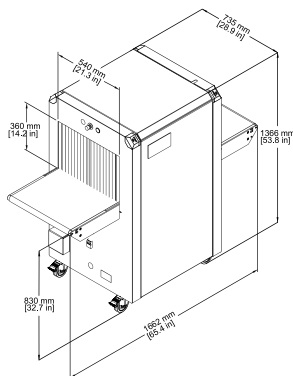
With over 14 image processing tools and detection alert algorithms functions, the feature-rich software allows the operator to more easily and accurately search for contraband.

SINERGY™

Rapiscan's latest proprietary image enhancement tool, utilizes the new innovative Dual-Mode X-ray imaging Technique (DMxT) to emphasize the detail in specific regions of images by enhancing the visibility of thin metal therefore increasing operator recognition of potential threats in cluttered images.



HIGH PERFORMANCE RAPISCAN 618XR hp



PHYSICAL SPECIFICATIONS

Dimensions:	Length: 1,662 mm (65.4 in.) Width: 735 mm (28.9 in.) Height: 1,366 mm (53.8 in.) 540 mm (W) x 360 mm (H) (21.3 x 14.2 in.)
Tunnel Size:	540 mm (W) x 360 mm (H) (21.3 x 14.2 in.)
Conveyor Speed:	0.20 m/sec (39.4 ft./min)
Conveyor Load (Max):	165 Kg (364 lbs) evenly distributed
Conveyor Height (Approx.):	830 mm (32.7 in.)
Weight (Approx.):	440 kg (970 lbs.)
System Power:	100/110/120/200/208/220/230/240VAC ±10%

X-RAY GENERATOR AND IMAGE PERFORMANCE¹

Steel Penetration:	33 mm typical, 31 mm standard
Wire Resolution:	40 AWG typical, 38 AWG standard
Spatial Resolution:	0.8mm vertical/ 0.8mm horizontal
Cooling:	Sealed oil bath with forced air
Anode Voltage:	140kV
Orientation:	Diagonally Upward

OPERATING ENVIRONMENT

Storage Temperature:	-20°C to 50°C
Operating Temperature:	0°C to 40°C
Relative Humidity:	5 to 95% non-condensing

PROTECTION CLASS

System:	IP20
Operator Control Panel:	IP43 ²

GOVERNMENT REGULATORY

- Regulation (EC) No. 300/2008 Compliant
- Regulation (EU) No. 185/2010 Compliant
- EU Commissions Decision C(2010)774 Compliant

HEALTH & SAFETY

Rapiscan Systems' cabinet X-ray products comply with all applicable U.S. FDA and equivalent international regulatory agency requirements, contained in the cabinet X-ray radiation safety performance standard [21 CFR 1020.40] and the general performance standard [21 CFR Part 1010] as well as IEC standard 61010-2-091. Rapiscan baggage and parcel inspection systems radiation emission leakages are well below the required regulatory limits with less than 1µSv/hr at 10 cm from all surfaces of cabinet X-ray.

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Rapiscan[®]
systems

An OSI Systems Company

SOFTWARE

- OS600
- 64-bit Operating System

OPTIONS AND ACCESSORIES

- Explosives Detection Alert (Target™)
- Narcotics Detection Alert (NARCSan™)
- Density Threshold Alert (DTA)
- Threat Image Projection (TIP)
- Threat Image Projection Network (TIPNet)
- Remote Image Archive Review (NETView™)
- Multi-System Network Display Station (NDS)
- Automatic Image Archiving
- Enhanced Image Archiving
- Operator Training Program (OTP)
- Manual Scan
- Operator Pedestal
- Foot Mat
- Optical Operator Presence Sensor
- SmartCard Login
- Power Conditioner
- Conveyor Accessories
- Remote Workstation
- Universal Printer Support
- Operator Control Panel
- Bracket Mount - Dual Monitor Kit
- Extended UPS

¹Stated performance as measured by Rapiscan Imaging Validation Test Kit.

²With optional replaceable cover.

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Part Number | 618XRH140



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D00196 032717

MOBILE HIGH PERFORMANCE SECURITY SCREENING SYSTEM

Large pneumatic wheels
for easy transport

Lockable, pullout operator control
panel and monitor console

Tie-down anchor points

Easy to access cable reel

STANDARD FEATURES

- Full Spectrum Imaging
- View Previous/Next Bag
- Image Archive
- Configurable Image Processing Keys
- Baggage Counter
- Date / Time Display
- Search Indicator
- UPS (Uninterrupted Power Supply)
- Flat Panel Monitor
- Multi Language Support

STANDARD IMAGE PROCESSING FUNCTIONS

- Crystal Clear™
- SINERGY™
- Black and White
- Organic / Inorganic Stripping
- Inverse Video
- High Penetration
- Low Penetration
- Pseudo Color
- Variable Edge Enhancement
- Variable Color Stripping
- Variable Gamma
- Variable Density
- Dynamic Continuous Zoom & Panning
- Fixed Zoom (64x)

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INOPERATIVE MODE

TUNNEL OPENING (W X H):
540 X 360 MM (21.3 X 14.2 IN)

THE RAPISCAN® MOBILE 618XR hp IS A PORTABLE X-RAY SCREENING SYSTEM WITH A 540MM WIDE BY 360MM HIGH TUNNEL OPENING, FEATURING LARGE SHOCK ABSORBING PNEUMATIC WHEELS FOR EASY TRANSPORTABILITY.

Based on an established legacy of innovation, quality and reliability, the **Mobile 618XR hp** provides an array of technologies designed to assist the operator in threat detection as well as improve throughput and operations for checkpoint screening applications. The **Mobile 618XR hp** is designed for rapid relocation and can be wheeled through narrow doorways, making it an excellent system for cruise lines, schools, prisons, and event-based security environments.

DETECTION OF EXPLOSIVES AND NARCOTICS ALERT

Target™ and NARCScan™ are designed to assist operators in the detection of a range of explosives and narcotics respectively in real time during the scanning process by marking a potential threat on the X-ray image. Rapiscan® Systems detection algorithms are based on regulatory material analysis techniques.

GOVERNMENT REGULATORY COMPLIANCE

Rapiscan® **Mobile 618XR hp** performance is in full compliance with the mandatory regulations (EC) No. 300/2008, (EU) No. 185/2010 and Commissions Decision C(2010)774 for aviation security in the European Union.

SINERGY™

Rapiscan® Systems latest proprietary image enhancement tool, utilizes the new innovative Dual-Mode X-ray imaging Technique (DMxT) to emphasize the detail in specific regions of images by enhancing the visibility of thin metal therefore increasing operator recognition of potential threats in cluttered images.

EFFICIENT DESIGN FOR EASE OF USE, HIGHEST THROUGHPUT AND SECURE

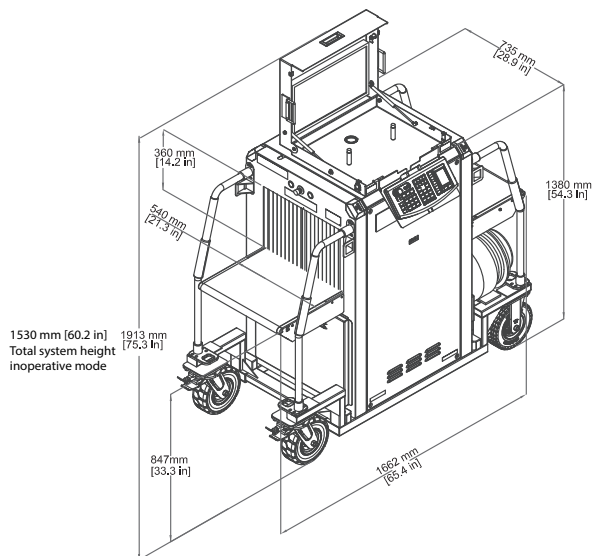
Rapiscan® **Mobile 618XR hp** is supported by a rigid-steel structure, and is equipped with painted handles at its sides and large pneumatic caster wheels at its base for ease of maneuverability.

The wheels enable operators to move the **Mobile 618XR hp** easily, and offer a locking function to achieve stability and security during use.

A lockable, easy slide out control panel tray and monitor is securely located on top of the system.



MOBILE 618XR hp



PHYSICAL SPECIFICATIONS

Dimensions:	Length: 1,662 mm (65.4 in.) Width: 735 mm (28.9 in.) Height: 1,913 mm (75.3 in.) open, 1,530 mm (60.2 in.) closed
Tunnel Size:	540 mm (W) x 360 mm (H) (21.3 x 14.2 in.)
Conveyor Speed:	0.20 m/sec (39.4 ft./min)
Conveyor Load (Max):	165 Kg (364 lbs)
Conveyor Height (Approx.):	847 mm (33.3 in.)
System Power:	100/110/120/200/208/220/230/240VAC $\pm$ 10%

X-RAY GENERATOR AND IMAGE PERFORMANCE¹

Steel Penetration:	33 mm typical, 31 mm standard
Wire Resolution:	40 AWG typical, 38 AWG standard
Spatial Resolution:	0.8mm vertical/ 0.8mm horizontal
Cooling:	Sealed oil bath with forced air
Anode Voltage:	140kV
Orientation:	Diagonally Upward

OPERATING ENVIRONMENT

Storage Temperature:	-20°C to 50°C
Operating Temperature:	0°C to 40°C
Relative Humidity:	5 to 95% non-condensing

PROTECTION CLASS

System:	IP20
Operator Control Panel:	IP43 ²

GOVERNMENT REGULATORY

- Regulation (EC) No. 300/2008 Compliant
- Regulation (EU) No. 185/2010 Compliant
- EU Commissions Decision C(2010)774 Compliant

HEALTH & SAFETY

Rapiscan Systems' cabinet X-ray products comply with all applicable U.S. FDA and equivalent international regulatory agency requirements, contained in the cabinet X-ray radiation safety performance standard [21 CFR 1020.40] and the general performance standard [21 CFR Part 1010] as well as IEC standard 61010-2-091.

Rapiscan baggage and parcel inspection systems radiation emission leakages are well below the required regulatory limits with less than 1 μ Sv/hr at 10 cm from all surfaces of cabinet X-ray.

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Fax: +65-6743-9915

Rapiscan[®] systems

An OSI Systems Company

SOFTWARE

- OS600
- 64-bit Operating System

OPTIONS AND ACCESSORIES

- Explosives Detection Alert (Target[™])
- Narcotics Detection Alert (NARCScan[™])
- Density Threshold Alert (DTA)
- Threat Image Projection (TIP)
- Automatic Image Archiving
- Enhanced Image Archiving
- Operator Training Program (OTP)
- Manual Scan
- Power Conditioner
- Extended UPS

¹ Stated performance as measured by Rapiscan[®] Imaging Validation Test Kit.

² With optional replaceable cover.

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Certified to
AS9100C



Precisely Right.

Rapiscan Systems is AS9100C:2009 and
ISO 14001:2004 + Cor. 1:2009 Certified

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ADVANCED SINGLE VIEW CHECKPOINT SCREENING SYSTEM WITH OUTSTANDING FEATURES AND INNOVATIVE OPTIONS.

PROVEN CHECKPOINT
SCREENING PERFORMANCE

MEETS GLOBAL REGULATORY
REQUIREMENTS

NETWORK ENABLED

STANDARD FEATURES

- Multi Energy Imaging (4 Color)
- View Previous/Next Bag
- Image Archive
- Configurable Image Processing Keys
- Baggage Counter
- Date / Time Display
- Search Indicator
- UPS (Uninterrupted Power Supply)
- Flat Panel Monitor
- Multi Language Support

STANDARD IMAGE PROCESSING FUNCTIONS

- Crystal Clear™
- Black and White
- Organic / Inorganic Stripping
- Inverse Video
- High Penetration
- Pseudo Color
- Low Penetration
- Variable Edge Enhancement
- Variable Color Stripping
- Variable Gamma
- Variable Density
- Dynamic Continuous Zoom & Panning
- Fixed Zoom (64x)

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RAPISCAN 620XR



Tunnel Opening (width x height):
620 x 420 mm (24.4 x 16.5 in)

THE RAPISCAN 620XR PROVIDES OUTSTANDING THREAT DETECTION AND A LOW TOTAL COST OF OWNERSHIP.

The 620XR's innovative design allows for bi-directional operation, while ergonomic options such as its adjustable control panel stand make it easy to operate.

The Rapiscan 620XR holds the most and the largest number of global regularly approvals, by U.S. Transportation Security Administration (TSA), U.K. Department of Transport (DfT), French civil aviation authority (STAC) and Canadian Transport of Canada.

DETECTION OF EXPLOSIVES AND NARCOTICS ALERT

Target™ and NARCSan™ are designed to assist operators in the detection of a range of explosives and narcotics respectively in real time during the scanning process by marking a potential threat on the X-ray image. Rapiscan detection algorithms are based on regulatory material analysis techniques.

EASE OF USE PROVIDING HIGHEST THROUGHPUT

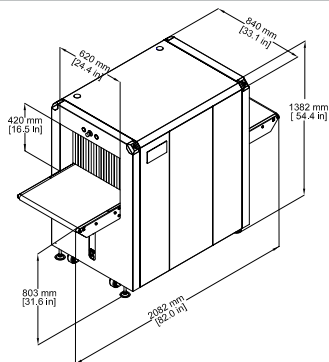
With over 13 image processing tools and detection alert algorithm functions, the feature rich software allows the operator to more easily and accurately search for contraband.

REGULATORY COMPLIANCE

Rapiscan 620XR performance is in full compliance with the European Union regulations (EC) No. 300/2008, (EU) No. 2015/1998 and Commissions Decision C (2015)8005 for aviation security.



RAPISCAN 620XR



PHYSICAL SPECIFICATIONS

Dimensions:	Length: 2,082 mm (82.0 in.) Width: 840 mm (33.1 in.) Height: 1,382 mm (54.4 in.)
Tunnel Size:	620 mm (W) x 420 mm (H) (24.4 x 16.5 in.)
Conveyor Speed:	0.20 m/s (39.4 ft./min)
Conveyor Load (Max):	165 Kg (364 lbs)
Conveyor Height:	803 mm (31.6 in.)
Weight Approx.:	Net: 510 Kg (1,124 lbs)
System Power:	115/230 VAC ±10%, 60/50Hz

STANDARD X-RAY GENERATOR AND IMAGE PERFORMANCE¹

Steel Penetration:	30 mm typical; 28 mm standard
Wire Resolution:	40 AWG typical; 38 AWG standard
Generator Cooling:	Sealed oil bath with forced air
Anode Voltage:	Operating at 140kV
Tube Current:	0.7 mA
Orientation:	Vertically Upward

HIGH PENETRATION X-RAY GENERATOR OPTION AND IMAGE PERFORMANCE*

Steel Penetration:	40 mm typical; 35 mm standard
Wire Resolution:	40 AWG typical; 38 AWG standard
Anode Voltage:	Operating at 160kV
Tube Current:	1.0 mA

OPERATING ENVIRONMENT

Storage Temperature:	-20°C to 50°C
Operating Temperature:	0°C to 40°C
Relative Humidity:	5 to 95% non-condensing

PROTECTION CLASS

System:	IP20
Operator Control Panel:	IP43 ²

REGULATORY

- TSA Air Cargo Screening Technology List (ACSTL) Qualified
- Transport Canada (TC) Air Cargo Qualified
- Regulation (EC) No. 300/2008 Compliant
- Regulation (EU) No. 2015/1998 Compliant
- EU Commissions Decision (EU) C(2015)8005 Compliant
- French Civil Aviation Authority (STAC) Certified
- UK Department for Transport (DfT) TIP Approved

HEALTH & SAFETY

Rapiscan Systems' cabinet X-ray products comply with all applicable U.S. FDA and equivalent international regulatory agency requirements, contained in the cabinet X-ray radiation safety performance standard [21 CFR 1020.40] and the general performance standard [21 CFR Part 1010] as well as IEC standard 61010-2-091.

Rapiscan baggage and parcel inspection systems radiation emission leakages are well below the required regulatory limits with less than 1 µSv/hr at 10 cm from all surfaces of cabinet X-ray.

Rapiscan®
systems
An OSI Systems Company

OPTIONS AND ACCESSORIES

- Explosives Detection Alert (Target™)
- Narcotics Detection Alert (NARCScan™)
- Density Threshold Alert (DTA)
- Threat Image Projection (TIP)
- Threat Image Projection Network (TIPNet)
- Remote Image Archive Review (NETView™)
- Network X-ray management automation and Link system (NEXLink™)
- Multi-System Network Display Station (NDS)
- Automatic Image Archiving
- Enhanced Image Archiving
- Operator Training Program (OTP)
- Manual Scan
- Operator Pedestal
- Foot Mat
- Optical Operator Presence Sensor
- SmartCard Login
- Power Conditioner
- Conveyor Accessories
- Remote Workstation
- Adjustable Height Lift and Tilt Stand
- Universal Printer Support

¹ Stated performance as measured by Rapiscan Imaging Validation Test Kit.

² With optional replaceable cover.

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Rapiscan[®] systems

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AVIATION CHECKPOINT SCREENING SYSTEM WITH INDUSTRY BEST PENETRATION, WIRE RESOLUTION AND SPATIAL RESOLUTION

EXPLOSIVES AND
NARCOTICS DETECTION

SINERGY™ LOW DENSITY
IMAGE ENHANCEMENT

MATRIXING, NETWORKING
AND REMOTE VIEWING

STANDARD FEATURES

- Multi Energy Imaging (4 Color)
- View Previous/Next Bag
- Image Archive
- Configurable Image Processing Keys
- Baggage Counter
- Date / Time Display
- Search Indicator
- UPS (Uninterrupted Power Supply)
- Flat Panel Monitor
- Multi Language Support

STANDARD IMAGE PROCESSING FUNCTIONS

- Crystal Clear™
- SINERGY™
- Black and White
- Organic / Inorganic Stripping
- Inverse Video
- High Penetration
- Low Penetration
- Pseudo Color
- Variable Edge Enhancement
- Variable Color Stripping
- Variable Gamma
- Variable Density
- Dynamic Continuous Zoom & Panning
- Fixed Zoom (64x)

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HIGH PERFORMANCE RAPISCAN 620XR hp



TUNNEL OPENING (W X H):
620 X 420 MM (24.4 X 16.5 IN)

THE NEW RAPISCAN 620XR hp IS A HIGH PERFORMANCE 620 MM BY 420 MM TUNNEL AVIATION CHECKPOINT SCREENING SYSTEM WITH BEST IN CLASS IMAGE QUALITY AND EXCELLENT THREAT DETECTION ALERT CAPABILITIES.

The Rapiscan 620XR hp complies with all European Commission Aviation Security Screening requirements and French Civil Aviation Authority (STAC).

DETECTION OF EXPLOSIVES AND NARCOTICS ALERT

Target™ and NARCScan™ are designed to assist operators in the detection of a range of explosives and narcotics respectively in real time during the scanning process by marking a potential threat on the X-ray image. Rapiscan detection algorithms are based on regulatory material analysis techniques.

GOVERNMENT REGULATORY COMPLIANCE

Rapiscan 620XR hp performance is in full compliance with the mandatory regulations (EC) No. 300/2008, (EU) No. 185/2010 and Commissions Decision C(2010)774 for aviation security in the European Union.

EASE OF USE PROVIDING HIGHEST THROUGHPUT

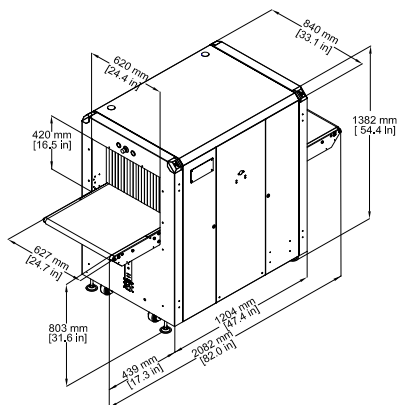
With over 14 image processing tools and detection alert algorithms functions, the feature rich software allows the operator to more easily and accurately search for contraband.

SINERGY™

Rapiscan's latest proprietary image enhancement tool, utilizes the new innovative Dual-Mode X-ray imaging Technique (DMxT) to emphasize the detail in specific regions of images by enhancing the visibility of thin metal therefore increasing operator recognition of potential threats in cluttered images.



HIGH PERFORMANCE RAPISCAN 620XR hp



PHYSICAL SPECIFICATIONS

Dimensions:	Length: 2,082 mm (82.0 in.) Width: 840 mm (33.1 in.) Height: 1,382 mm (54.4 in.)
Tunnel Size:	620 mm (W) x 420 mm (H) (24.4 x 16.5 in.)
Conveyor Speed:	0.20 m/sec (39.4 ft./min)
Conveyor Load (Max):	165 Kg (364 lbs)
Conveyor Height (Approx.):	803 mm (31.6 in.)
Weight (Approx.):	Net: 486 Kg (1,071 lbs)
System Power:	100/110/120/200/208/220/230/240VAC $\pm 10\%$

X-RAY GENERATOR AND IMAGE PERFORMANCE¹

Steel Penetration:	44 mm typical, 42 mm standard
Wire Resolution:	44 AWG typical, 42 AWG standard
Spatial Resolution:	0.8mm vertical/ 0.8mm horizontal
Cooling:	Sealed oil bath with forced air
Anode Voltage:	160kV
Orientation:	Diagonally Upward

OPERATING ENVIRONMENT

Storage Temperature:	-20°C to 50°C
Operating Temperature:	0°C to 40°C
Relative Humidity:	5 to 95% non-condensing

PROTECTION CLASS

System:	IP20
Operator Control Panel:	IP43 ²

GOVERNMENT REGULATORY

- French Civil Aviation Authority (STAC) Certified
- Regulation (EC) No. 300/2008 Compliant
- Regulation (EU) No. 185/2010 Compliant
- EU Commissions Decision C(2010)774 Compliant

HEALTH & SAFETY

Rapiscan Systems' cabinet X-ray products comply with all applicable U.S. FDA and equivalent international regulatory agency requirements, contained in the cabinet X-ray radiation safety performance standard [21 CFR 1020.40] and the general performance standard [21 CFR Part 1010] as well as IEC standard 61010-2-091. Rapiscan baggage and parcel inspection systems radiation emission leakages are well below the required regulatory limits with less than 1µSv/hr at 10 cm from all surfaces of cabinet X-ray.

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Rapiscan[®] systems

An OSI Systems Company

SOFTWARE

- OS600
- 64-bit Operating System

OPTIONS AND ACCESSORIES

- Explosives Detection Alert (Target™)
- Narcotics Detection Alert (NARCScan™)
- Density Threshold Alert (DTA)
- Threat Image Projection (TIP)
- Threat Image Projection Network (TIPNet)
- Remote Image Archive Review (NETView™)
- Multi-System Network Display Station (NDS)
- Automatic Image Archiving
- Enhanced Image Archiving
- Operator Training Program (OTP)
- Manual Scan
- Operator Pedestal
- Foot Mat
- Optical Operator Presence Sensor
- SmartCard Login
- Power Conditioner
- Conveyor Accessories
- Remote Workstation
- Universal Printer Support
- Operator Control Panel
- Bracket Mount - Dual Monitor Kit
- Extended UPS

¹ Stated performance as measured by Rapiscan Imaging Validation Test Kit.

² With optional replaceable cover.

With continual development of our products Rapiscan Systems reserves the right to amend specifications without notice. Product pictures are for general reference. Please note that due to US laws and regulations, not all Rapiscan products are available for sale in all countries without restriction. Please contact your Rapiscan Systems sales representative for more information.

Part Number | 620XRH160



Rapiscan Systems is AS9100C:2009 and ISO 14001:2004 + Cor. 1:2009 Certified

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MOBILE HIGH PERFORMANCE SECURITY SCREENING SYSTEM

Large pneumatic wheels
for easy transport

Lockable, pullout operator control
panel and monitor console

Tie-down anchor points

Easy to access cable reel

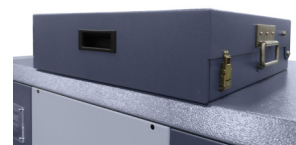
STANDARD FEATURES

- Full Spectrum Imaging
- View Previous/Next Bag
- Image Archive
- Configurable Image Processing Keys
- Baggage Counter
- Date / Time Display
- Search Indicator
- UPS (Uninterrupted Power Supply)
- Flat Panel Monitor
- Multi Language Support

STANDARD IMAGE PROCESSING FUNCTIONS

- Crystal Clear™
- SINERGY™
- Black and White
- Organic / Inorganic Stripping
- Inverse Video
- High Penetration
- Low Penetration
- Pseudo Color
- Variable Edge Enhancement
- Variable Color Stripping
- Variable Gamma
- Variable Density
- Dynamic Continuous Zoom & Panning
- Fixed Zoom (64x)

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INOPERATIVE MODE

TUNNEL OPENING (W X H):
620 X 420 MM (24.4 X 16.5 IN)

THE RAPISCAN® MOBILE 620XR hp IS A PORTABLE X-RAY SCREENING SYSTEM WITH A 620MM WIDE BY 420MM HIGH TUNNEL OPENING, FEATURING LARGE SHOCK ABSORBING PNEUMATIC WHEELS FOR EASY TRANSPORTABILITY.

Based on an established legacy of innovation, quality and reliability, the **Mobile 620XR hp** provides an array of technologies designed to assist the operator in threat detection as well as improve throughput and operations for checkpoint security screening applications. The **Mobile 620XR hp** is designed for rapid relocation and can be wheeled through narrow doorways, making it an excellent system for cruise lines, schools, prisons, and event-based security environments.

The Rapiscan® **Mobile 620XR hp** complies with all European Commission Aviation Security Screening requirements and French Civil Aviation Authority (STAC).

DETECTION OF EXPLOSIVES AND NARCOTICS ALERT

Target™ and NARCSscan™ are designed to assist operators in the detection of a range of explosives and narcotics respectively in real time during the scanning process by marking a potential threat on the X-ray image. Rapiscan® Systems detection algorithms are based on regulatory material analysis techniques.

GOVERNMENT REGULATORY COMPLIANCE

Rapiscan® **Mobile 620XR hp** is in full compliance with the mandatory regulations (EC) No. 300/2008, (EU) No. 185/2010 and Commissions Decision C(2010)774 for aviation security in the European Union.

SINERGY™

Rapiscan® Systems latest proprietary image enhancement tool, utilizes the new innovative Dual-Mode X-ray imaging Technique (DMxT) to emphasize the detail in specific regions of images by enhancing the visibility of thin metal therefore increasing operator recognition of potential threats in cluttered images.

EFFICIENT DESIGN FOR EASE OF USE, HIGHEST THROUGHPUT AND SECURE

Rapiscan® **Mobile 620XR hp** is supported by a rigid-steel structure, and is equipped with painted handles at its sides and large pneumatic caster wheels at its base for ease of maneuverability.

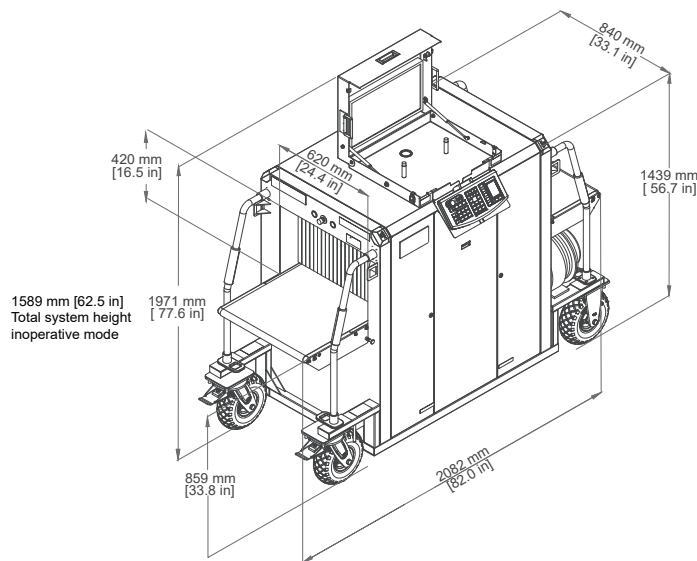
The wheels enable operators to move the **Mobile 620XR hp** easily, and offer a locking function to achieve stability and security during use.

A lockable, easy slide out control panel tray and monitor is securely located on top of the system.



MOBILE 620XR hp

Rapiscan®
systems
An OSI Systems Company



PHYSICAL SPECIFICATIONS

Dimensions:	Length: 2,082 mm (82.0 in.) Width: 840 mm (33.1 in.) Height: 1,971 mm (77.6 in.) open, 1,589 mm (62.5 in.) closed 620 mm (W) x 420 mm (H) (24.4 x 16.5 in.)
Tunnel Size:	620 mm (W) x 420 mm (H) (24.4 x 16.5 in.)
Conveyor Speed:	0.20 m/sec (39.4 ft./min)
Conveyor Load (Max):	165 Kg (364 lbs)
Conveyor Height (Approx.):	859 mm (33.8 in.)
System Power:	100/110/120/200/208/220/230/240VAC ±10%

X-RAY GENERATOR AND IMAGE PERFORMANCE¹

Steel Penetration:	44 mm typical, 42 mm standard
Wire Resolution:	44 AWG typical, 42 AWG standard
Spatial Resolution:	0.8mm vertical/ 0.8mm horizontal
Cooling:	Sealed oil bath with forced air
Anode Voltage:	160kV
Orientation:	Diagonally Upward

OPERATING ENVIRONMENT

Storage Temperature:	-20°C to 50°C
Operating Temperature:	0°C to 40°C
Relative Humidity:	5 to 95% non-condensing

PROTECTION CLASS

System:	IP20
Operator Control Panel:	IP43 ²

GOVERNMENT REGULATORY

- Regulation (EC) No. 300/2008 Compliant
- Regulation (EU) No. 185/2010 Compliant
- EU Commissions Decision C(2010)774 Compliant
- France Civil Aviation Authority (STAC) certified

HEALTH & SAFETY

Rapiscan Systems' cabinet X-ray products comply with all applicable U.S. FDA and equivalent international regulatory agency requirements, contained in the cabinet X-ray radiation safety performance standard [21 CFR 1020.40] and the general performance standard [21 CFR Part 1010] as well as IEC standard 61010-2-091. Rapiscan baggage and parcel inspection systems radiation emission leakages are well below the required regulatory limits with less than 1 µSv/hr at 10 cm from all surfaces of cabinet X-ray.

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SOFTWARE

- OS600
- 64-bit Operating System

OPTIONS AND ACCESSORIES

- Explosives Detection Alert (Target™)
- Narcotics Detection Alert (NARCScan™)
- Density Threshold Alert (DTA)
- Threat Image Projection (TIP)
- Automatic Image Archiving
- Enhanced Image Archiving
- Operator Training Program (OTP)
- Manual Scan
- Power Conditioner
- Extended UPS

¹ Stated performance as measured by Rapiscan® Imaging Validation Test Kit.

² With optional replaceable cover.

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Certified to
AS9100C



Precisely Right.

Rapiscan Systems is AS9100C:2009 and
ISO 14001:2004 + Cor. 1:2009 Certified

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Rapiscan[®] systems

An OSI Systems Company

ULTRA-COMPACT 620 MM BY 420 MM TUNNEL CHECKPOINT SECURITY SCREENING SYSTEM FOR CRITICAL INFRASTRUCTURE PROTECTION

SUPERB IMAGE QUALITY

HIGHLY RELIABLE

ULTRA-COMPACT

STANDARD FEATURES

- Multi Energy Imaging (4 Color)
- View Previous/Next Bag
- Image Archive
- Configurable Image Processing Keys
- Baggage Counter
- Date / Time Display
- Search Indicator
- Flat Panel Monitor

STANDARD IMAGE PROCESSING FUNCTIONS

- Crystal Clear™
- SINERGY™
- Black and White
- Organic / Inorganic Stripping
- Inverse Video
- High Penetration
- Low Penetration
- Pseudo Color
- Variable Edge Enhancement
- Variable Color Stripping
- Variable Gamma
- Variable Density
- Dynamic Continuous Zoom & Panning
- Fixed Zoom (64x)

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RAPISCAN 620XR ve



TUNNEL OPENING (W X H):
620 X 420 MM (24.4 X 16.5 IN)

THE NEW RAPISCAN 620XR ve IS A DUAL MODE, DUAL ENERGY 620 MM BY 420 MM TUNNEL ULTRA-COMPACT X-RAY SECURITY SCREENING SYSTEM WITH SUPERB IMAGING PERFORMANCE.

The 620XR ve implements Rapiscan's proprietary X-ray imaging technique allowing the system to extract information about the object's atomic composition and material discrimination, resulting in superior image quality.

By providing a small footprint and low weight, the compact 620XR ve is ideal for screening small to medium size parcels, briefcases and packages at high threat locations including event security, prisons, government buildings, schools and commercial buildings.

EASE OF USE PROVIDING HIGHEST THROUGHPUT

With over 14 image processing tools, the feature-rich software allows the operator to more easily and accurately search for contraband.

SINERGY™

Rapiscan's latest proprietary image enhancement tool, utilizes the new innovative Dual-Mode X-ray imaging Technique (DMxT) to emphasize the detail in specific regions of images by enhancing the visibility of thin metal therefore increasing operator recognition of potential threats in cluttered images.

SUPER COMPACT, HIGH PERFORMANCE

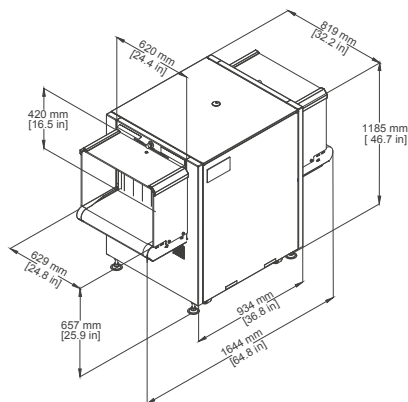
With a small footprint and a low weight of under 373kg, 620XR ve is ideal for security sensitive areas with limited space for placement of security equipment while providing excellent imaging performance.

REGULATORY COMPLIANCE

620XR ve is in full compliance with the European Union regulations (EC) No. 300/2008, (EU) No. 2015/1998 and Commissions Decision C(2015)8005.



RAPISCAN 620XR ve



PHYSICAL SPECIFICATIONS

Dimensions:	Length: 1,644 mm (64.8 in.) Width: 819 mm (32.2 in.) Height: 1,185 mm (46.7 in.)
Tunnel Size:	620 mm (W) x 420 mm (H) [24.4 x 16.5 in.]
Conveyor Speed:	0.20 m/sec (39.4 ft./min)
Conveyor Load (Max):	165 Kg (364 lbs) evenly distributed
Conveyor Height (Approx.):	657 mm (25.9 in.)
Weight (Approx.):	Net: 373 Kg (822.3 lbs) Gross: 482 Kg (1062.6 lbs)
System Power:	115/230 VAC $\pm$ 10%

X-RAY GENERATOR AND IMAGE PERFORMANCE¹

Steel Penetration:	30 mm standard
Wire Resolution:	41 AWG standard
Cooling:	Sealed oil bath with forced air
Anode Voltage:	140kV
Orientation:	Diagonally Upward

OPERATING ENVIRONMENT

Storage Temperature:	-20°C to 50°C
Operating Temperature:	0°C to 40°C
Relative Humidity:	5 to 95% non-condensing

PROTECTION CLASS

System:	IP20
Operator Control Panel:	IP43 ²

HEALTH & SAFETY

Rapiscan Systems' cabinet X-ray products comply with all applicable U.S. FDA and equivalent international regulatory agency requirements, contained in the cabinet X-ray radiation safety performance standard [21 CFR 1020.40] and the general performance standard [21 CFR Part 1010] as well as IEC standard 61010-2-091.

Rapiscan baggage and parcel inspection systems radiation emission leakages are well below the required regulatory limits with less than 1 μ Sv/hr at 10 cm from all surfaces of cabinet X-ray.

Rapiscan[®] systems

An OSI Systems Company

SOFTWARE

- OS600
- 64-bit Operating System

OPTIONS AND ACCESSORIES

- Density Threshold Alert (DTA)
- Threat Image Projection (TIP)
- Automatic Image Archiving
- Operator Training Program (OTP)
- Foot-mat
- Power Conditioner
- Rollerbed Accessories
- Dual Monitor Kit

¹ Stated performance as measured by Rapiscan Imaging Validation Test Kit.

² With optional replaceable cover.

Part Number | 620XRVI40

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D00281-2 032417

FOR REFERENCE ONLY / SUBJECT TO CHANGE

CHECKPOINT SCREENING SYSTEM APPROVED AS AN ADVANCED TECHNOLOGY (AT) SYSTEM BY U.S TSA, LIQUID EXPLOSIVE DETECTION SYSTEM (LEDS) BY E.U.

HIGH PERFORMANCE
ADVANCED CHECKPOINT
SCREENING

DUAL VIEW TECHNOLOGY

LARGEST GLOBAL REGULATORY
APPROVALS

STANDARD FEATURES

- Multi Energy Imaging (4 Color)
- View Previous/Next Bag
- Image Archive
- Configurable Image Processing Keys
- Baggage Counter
- Date / Time Display
- Search Indicator
- UPS (Uninterrupted Power Supply)
- Flat Panel Monitor
- Multi Language Support

STANDARD IMAGE PROCESSING FUNCTIONS

- Crystal Clear™
- Black and White
- Organic / Inorganic Stripping
- Inverse Video
- High Penetration
- Pseudo Color
- Low Penetration
- Variable Edge Enhancement
- Variable Color Stripping
- Variable Gamma
- Variable Density
- Dynamic Continuous Zoom & Panning
- Fixed Zoom (64x)

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RAPISCAN 620DV



Shown with optional Operator Pedestal

Tunnel Opening (width x height):
640 x 430 mm (25.2 x 16.9 in)



THE RAPISCAN 620DV IS AN ADVANCED CHECKPOINT SCREENING SOLUTION, DESIGNED FOR AVIATION AND HIGH SECURITY APPLICATIONS. IT USES INNOVATIVE DUAL VIEW TECHNOLOGY TO GENERATE A HORIZONTAL AND VERTICAL VIEW OF THE OBJECT UNDER INSPECTION.

Rapiscan 620DV has been approved and included on the qualified list applicable to the U.S. TSA Advanced Technology (AT) checkpoint program as well as the qualified list applicable to E.U. ECAC Liquid Explosive Detection System (LEDS) Common Evaluation Process (CEP) for security equipment.

Rapiscan 620DV provides unsurpassed image quality, regulatory approved detection alert of solid explosive software (Target™) and Liquid Explosive Identification Software (aLEXis™) with the largest global approvals and certifications.

DETECTION OF EXPLOSIVES AND NARCOTICS ALERT

Target™ and NARCScan™ are designed to assist operators in the detection of a range of explosives and narcotics respectively in real time during the scanning process by marking a potential threat on the X-ray image. Rapiscan detection algorithms are based on regulatory material analysis techniques.

MEETING TODAY'S MOST STRINGENT GLOBAL REQUIREMENTS

The Rapiscan 620DV meets the most rigorous detection and image quality requirements as set by the U.S. Transportation Security Administration (TSA), U.K. Department of Transport (DfT), European Union, French civil aviation authority (STAC), and Transport Canada (TC).

EASE OF USE PROVIDING HIGHEST THROUGHPUT

With over 13 image processing tools and detection alert algorithm functions, the feature rich software allows the operator to more easily and accurately search for contraband.

REGULATORY COMPLIANCE

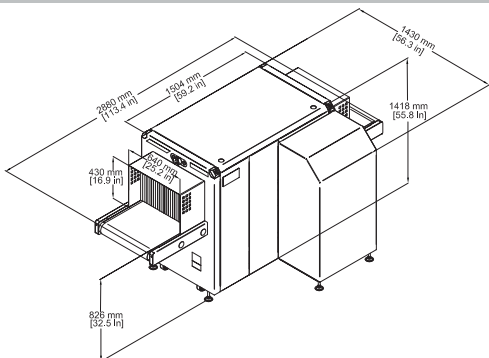
Rapiscan 620DV performance is in full compliance with the European Union regulations [EC] No. 300/2008, [EU] No. 2015/1998 and Commissions Decision C (2015)8005 for aviation security.

DUAL VIEW ADVANCED TECHNOLOGY

As mandated by US and EU regulators, the 620DV utilizes a dual view technology which produces two simultaneous images (vertical and horizontal views) of the scanned object. It provides a more complete image, thereby reducing the need for repositioning and rescanning and enabling rapid, accurate and comprehensive threat detection.



RAPISCAN 620DV



PHYSICAL SPECIFICATIONS

Dimensions:	Length: 2,880 mm (113.4 in.) Width: 1,430 mm (56.3 in.) Height: 1,418 mm (55.8 in.)
Tunnel Size:	640 mm (W) x 430 mm (H) (25.2 x 16.9 in.)
Conveyor Speed:	0.22 m/sec (43.3 ft./min)
Conveyor Load (Max):	165 Kg (364 lbs) evenly distributed
Conveyor Height:	826 mm (32.5 in.)
Weight (Approx):	Net: 1000 Kg (2,205 lbs)
System Power:	115/230 VAC $\pm$ 10%, 60/50Hz

X-RAY GENERATOR AND IMAGE PERFORMANCE¹

Steel Penetration:	40 mm typical, 35 mm standard
Wire Resolution:	40 AWG typical, 38 AWG standard
Generator Cooling:	Sealed oil bath with forced air
Anode Voltage:	Operating at 160kV
Tube Current:	1.0 mA
Orientation:	Vertical and Horizontal

OPERATING ENVIRONMENT

Storage Temperature:	-20°C to 50°C
Operating Temperature:	0°C to 40°C
Relative Humidity:	5 to 95% non-condensing

PROTECTION CLASS

System:	IP20
Operator Control Panel:	IP43 ²

REGULATORY

- U.S. Transportation Security Administration (TSA) AT Approved
- EU ECAC Liquids Explosive Detection System Type C Approved
- TSA Air Cargo Screening Technology List (ACSTL) Qualified
- Transport Canada (TC) Air Cargo Qualified
- Regulation (EC) No. 300/2008 Compliant
- Regulation (EU) No. 2015/1998 Compliant
- EU Commissions Decision (EU) C(2015)8005 Compliant
- French Civil Aviation Authority (STAC) Certified
- UK Department for Transport (DfT) TIP Approved
- UK Department for Transport (DfT) ACBX + LEDs Approved

HEALTH & SAFETY

Rapiscan Systems' cabinet X-ray products comply with all applicable U.S. FDA and equivalent international regulatory agency requirements, contained in the cabinet X-ray radiation safety performance standard [21 CFR 1020.40] and the general performance standard [21 CFR Part 1010] as well as IEC standard 61010-2-091.

Rapiscan baggage and parcel inspection systems radiation emission leakages are well below the required regulatory limits with less than 1 μ Sv/hr at 10 cm from all surfaces of cabinet X-ray.

Rapiscan[®]
systems

An OSI Systems Company

OPTIONS AND ACCESSORIES

- Detection of Liquids, Aerosols and Gels explosives (aLExisTM)³
- Explosives Detection Alert (TargetTM)
- Narcotics Detection Alert (NARCSanTM)
- Density Threshold Alert (DTA)
- Threat Image Projection (TIP)
- Remote Image Archive Review (NETviewTM)
- Network X-ray management automation and Link system (NEXLinkTM)
- Multi-System Network Display Station (NDS)
- Automatic Image Archiving
- Enhanced Image Archiving
- Operator Training Program (OTP)
- Manual Scan
- Operator Pedestal
- Foot Mat
- Optical Operator Presence Sensor
- SmartCard Login
- Power Conditioner
- Conveyor Accessories
- Remote Workstation
- Universal Printer Support

¹ Stated performance as measured by Rapiscan Imaging Validation Test Kit. Stated dual view performance as measured in primary view.

² With optional replaceable cover.

³ Please request from your local sales representative for the kit specific part numbers when ordering aLExisTM.

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9150112-10 032417

FEATURE-RICH X-RAY BAGGAGE INSPECTION SYSTEM FOR SCREENING LARGE CARRY-ON BAGGAGE AND PARCELS AT THE CHECKPOINT.

LARGE BAGGAGE AND PARCEL
SCREENING

ADJUSTABLE CONTROL PANEL

NETWORK ENABLED

PERFORMANCE AND VALUE

STANDARD FEATURES

- Multi Energy Imaging (4 Color)
- View Previous/Next Bag
- Image Archive
- Configurable Image Processing Keys
- Baggage Counter
- Date / Time Display
- Search Indicator
- UPS (Uninterrupted Power Supply)
- Flat Panel Monitor
- Multi Language Support

STANDARD IMAGE PROCESSING FUNCTIONS

- Crystal Clear™
- Black and White
- Organic / Inorganic Stripping
- Inverse Video
- High Penetration
- Pseudo Color
- Low Penetration
- Variable Edge Enhancement
- Variable Color Stripping
- Variable Gamma
- Variable Density
- Dynamic Continuous Zoom & Panning
- Fixed Zoom (64x)

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www.rapiscansystems.com

RAPISCAN 622XR



Tunnel Opening (width x height):
750 x 550 mm (29.5 x 21.7 in)

THE RAPISCAN 622XR OFFERS HIGH PERFORMANCE THREAT DETECTION AND LOWER TOTAL COST OF OWNERSHIP. WITH A TUNNEL OPENING OF 750MM X 550MM, THE RAPISCAN 622XR CAN ACCOMMODATE A RANGE OF PARCEL AND BAGGAGE SIZES FOR CHECKPOINTS.

The 622XR's innovative design allows for bidirectional operation, while its dual-energy detection provides material discrimination alert so that screeners can identify the material composition of the scanned object. In addition, it offers options like an adjustable control panel stand and swing-open, easy-access panels.

The Rapiscan 622XR, complies with U.S. Code of Federal Regulations (CFRs) on performance standards for ionizing radiation-emitting products, electronics products, radio frequency devices, qualification of screening personnel, occupational noise exposure and occupational safety and health standards.

DETECTION OF EXPLOSIVES AND NARCOTICS ALERT

Target™ and NARCScan™ are designed to assist operators in the detection of a range of explosives and narcotics respectively in real time during the scanning process by marking a potential threat on the X-ray image. Rapiscan detection algorithms are based on regulatory material analysis techniques.

EASE OF USE PROVIDING HIGHEST THROUGHPUT

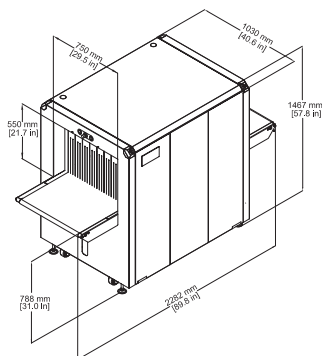
With over 13 image processing tools and detection alert algorithm functions, the feature rich software allows the operator to more easily and accurately search for contraband.

REGULATORY COMPLIANCE

Rapiscan 622XR performance is in full compliance with the European Union regulations (EC) No. 300/2008, (EU) No. 2015/1998 and Commissions Decision C [2015]8005 for aviation security.



RAPISCAN 622XR



PHYSICAL SPECIFICATIONS

Dimensions:	Length: 2,282 mm (89.9 in.) Width: 1,030 mm (40.6 in.) Height: 1,467 mm (57.8 in.)
Tunnel Size:	750 mm (W) x 550 mm (H) (29.5 x 21.7 in.)
Conveyor Speed:	0.20 m/sec (39.4 ft./min)
Conveyor Load (Max):	165 Kg (364 lbs)
Conveyor Height:	788 mm (31.0 in.)
Weight (Approx.):	Net: 610 Kg (1,345 lbs)
System Power:	115/230 VAC $\pm$ 10%, 60/50Hz

STANDARD X-RAY GENERATOR AND IMAGE PERFORMANCE¹

Steel Penetration:	28 mm standard; 30 mm typical
Wire Resolution:	38 AWG standard; 40 AWG typical
Generator Cooling:	Sealed oil bath with forced air
Anode Voltage:	Operating at 140kV
Tube Current:	0.7 mA
Orientation:	Vertically Upward

HIGH PENETRATION X-RAY GENERATOR OPTION AND IMAGE PERFORMANCE¹

Steel Penetration:	40 mm typical; 35 mm standard
Wire Resolution:	40 AWG typical; 38 AWG standard
Anode Voltage:	Operating at 160kV
Tube Current:	1.0 mA

OPERATING ENVIRONMENT

Storage Temperature:	-20°C to 50°C
Operating Temperature:	0°C to 40°C
Relative Humidity:	5 to 95% non-condensing

PROTECTION CLASS

System:	IP20
Operator Control Panel:	IP43 ²

REGULATORY

- TSA Air Cargo Screening Technology List (ACSTL) Qualified
- Regulation (EC) No. 300/2008 Compliant
- Regulation (EU) No. 2015/1998 Compliant
- EU Commissions Decision (EU) C(2015)8005 Compliant
- French Civil Aviation Authority (STAC) Certified
- UK Department for Transport (DfT) TIP Approved

HEALTH & SAFETY

Rapiscan Systems' cabinet X-ray products comply with all applicable U.S. FDA and equivalent international regulatory agency requirements, contained in the cabinet X-ray radiation safety performance standard [21 CFR 1020.40] and the general performance standard [21 CFR Part 1010] as well as IEC standard 61010-2-091.

Rapiscan baggage and parcel inspection systems radiation emission leakages are well below the required regulatory limits with less than 1µSv/hr at 10 cm from all surfaces of cabinet X-ray.

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systems
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OPTIONS AND ACCESSORIES

- Explosives Detection Alert (Target™)
- Narcotics Detection Alert (NARCScan™)
- Density Threshold Alert (DTA)
- Threat Image Projection (TIP)
- Threat Image Projection Network (TIPNet)
- Remote Image Archive Review (NETView™)
- Network X-ray management automation and Link system (NEXLink™)
- Multi-System Network Display Station (NDS)
- Automatic Image Archiving
- Enhanced Image Archiving
- Operator Training Program (OTP)
- Manual Scan
- Operator Pedestal
- Foot Mat
- Optical Operator Presence Sensor
- SmartCard Login
- Power Conditioner
- Conveyor Accessories
- Remote Workstation
- Adjustable Height Lift and Tilt Stand

¹ Stated performance as measured by Rapiscan Imaging Validation Test Kit.

² With optional replaceable cover.

With continual development of our products Rapiscan Systems reserves the right to amend specifications without notice. Product pictures are for general reference. Please note that due to US laws and regulations, not all Rapiscan products are available for sale in all countries without restriction. Please contact your Rapiscan Systems sales representative for more information.

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Certified to
AS9100C



Rapiscan Systems is AS9100C:2009 and
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9150103-10 032417

FEATURE-RICH X-RAY BAGGAGE INSPECTION SYSTEM FOR SCREENING LARGE CARRY-ON BAGGAGE AND PARCELS AT THE CHECKPOINT

INNOVATIVE NEW DUAL-MODE
DUAL ENERGY X-RAY IMAGING
TECHNIQUE (DMxT)

EXPLOSIVES AND NARCOTICS DETECTION

SINERGY™ LOW DENSITY
IMAGE ENHANCEMENT

MATRIXING, NETWORKING
AND REMOTE VIEWING

STANDARD FEATURES

- Multi Energy Imaging (4 Color)
- View Previous/Next Bag
- Image Archive
- Configurable Image Processing Keys
- Baggage Counter
- Date / Time Display
- Search Indicator
- UPS (Uninterrupted Power Supply)
- Flat Panel Monitor
- Multi Language Support

STANDARD IMAGE PROCESSING FUNCTIONS

- Crystal Clear™
- SINERGY™
- Black and White
- Organic / Inorganic Stripping
- Inverse Video
- High Penetration
- Low Penetration
- Pseudo Color
- Variable Edge Enhancement
- Variable Color Stripping
- Variable Gamma
- Variable Density
- Dynamic Continuous Zoom & Panning
- Fixed Zoom (64x)

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HIGH PERFORMANCE RAPISCAN 622XR hp



TUNNEL OPENING (W X H):
750 X 550 MM (29.5 X 21.7 IN)

THE RAPISCAN 622XR hp IS A HIGH PERFORMANCE 750 MM BY 550 MM
TUNNEL CHECKPOINT SCREENING SYSTEM WITH OUTSTANDING IMAGE
QUALITY AND EXCELLENT THREAT DETECTION ALERT CAPABILITIES.

The Rapiscan 622XR hp complies with all European Commission Aviation Security
Screening requirements.

DETECTION OF EXPLOSIVES AND NARCOTICS ALERT

Target™ and NARCSan™ are designed to assist operators in the detection of a range of explosives and narcotics respectively in real time during the scanning process by marking a potential threat on the X-ray image. Rapiscan detection algorithms are based on regulatory material analysis techniques.

GOVERNMENT REGULATORY COMPLIANCE

Rapiscan 622XR performance is in full compliance with the mandatory regulations [EC] No. 300/2008, [EU] No. 185/2010 and Commissions Decision C[2010]774 for aviation security in the European Union.

EASE OF USE PROVIDING HIGHEST THROUGHPUT

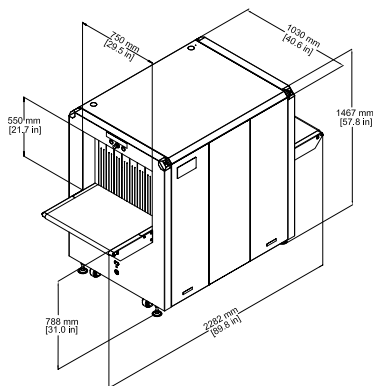
With over 14 image processing tools and detection alert algorithms the feature-rich software allows the operator to more easily and accurately search for contraband.

SINERGY™

Rapiscan's latest proprietary image enhancement tool, utilizes the new innovative Dual-Mode X-ray imaging technique (DMxT) to emphasize the detail in specific regions of images by enhancing the visibility of thin metal therefore increasing operator recognition of potential threats in cluttered images.



HIGH PERFORMANCE RAPISCAN 622XR hp



PHYSICAL SPECIFICATIONS

Dimensions:	Length: 2,282 mm (89.8 in.) Width: 1,030 mm (40.6 in.) Height: 1,467 mm (57.8 in.) 750 mm (W) x 550 mm (H) (29.5 x 21.7 in.)
Tunnel Size:	750 mm (W) x 550 mm (H) (29.5 x 21.7 in.)
Conveyor Speed:	0.20 m/sec (39.4 ft./min)
Conveyor Load (Max):	165 Kg (364 lbs)
Conveyor Height (Approx.):	788 mm (31.0 in.)
Weight (Approx.):	Net: 610 Kg (1,345 lbs)
System Power:	100/110/120/200/208/220/230/240VAC ±10%

X-RAY GENERATOR AND IMAGE PERFORMANCE¹

Steel Penetration:	38 mm typical, 36 mm standard
Wire Resolution:	42 AWG typical, 41 AWG standard
Spatial Resolution:	0.8mm vertical/ 0.8mm horizontal
Cooling:	Sealed oil bath with forced air
Anode Voltage:	160kV
Orientation:	Diagonally Upward

OPERATING ENVIRONMENT

Storage Temperature:	-20°C to 50°C
Operating Temperature:	0°C to 40°C
Relative Humidity:	5 to 95% non-condensing

PROTECTION CLASS

System:	IP20
Operator Control Panel:	IP43 ²

GOVERNMENT REGULATORY

- Regulation (EC) No. 300/2008 Compliant
- Regulation (EU) No. 185/2010 Compliant
- EU Commissions Decision C(2010)774 Compliant

HEALTH & SAFETY

Rapiscan Systems' cabinet X-ray products comply with all applicable U.S. FDA and equivalent international regulatory agency requirements, contained in the cabinet X-ray radiation safety performance standard [21 CFR 1020.40] and the general performance standard [21 CFR Part 1010] as well as IEC standard 61010-2-091.

Rapiscan baggage and parcel inspection systems radiation emission leakages are well below the required regulatory limits with less than 1µSv/hr at 10 cm from all surfaces of cabinet X-ray.

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Rapiscan[®] systems

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SOFTWARE

- OS600
- 64-bit Operating System

OPTIONS AND ACCESSORIES

- Explosives Detection Alert (Target™)
- Narcotics Detection Alert (NARCSan™)
- Density Threshold Alert (DTA)
- Threat Image Projection (TIP)
- Threat Image Projection Network (TIPNet)
- Remote Image Archive Review (NETView™)
- Multi-System Network Display Station (NDS)
- Automatic Image Archiving
- Enhanced Image Archiving
- Operator Training Program (OTP)
- Manual Scan
- Operator Pedestal
- Foot Mat
- Optical Operator Presence Sensor
- SmartCard Login
- Power Conditioner
- Conveyor Accessories
- Remote Workstation
- Universal Printer Support
- Operator Control Panel
- Bracket Mount - Dual Monitor Kit
- Extended UPS

¹Stated performance as measured by Rapiscan Imaging Validation Test Kit.

²With optional replaceable cover.

With continual development of our products Rapiscan Systems reserves the right to amend specifications without notice. Product pictures are for general reference. Please note that due to US laws and regulations, not all Rapiscan products are available for sale in all countries without restriction. Please contact your Rapiscan Systems sales representative for more information.

Part Number | 622XRH160



Rapiscan Systems is AS9100C:2009 and ISO 14001:2004 + Cor. 1:2009 Certified

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QUICKLY
CHECK-IN WITH
THIS LOW-PROFILE
CONVEYOR AND
LARGE TUNNEL
FOR UPRIGHT
BAGGAGE
SCREENING.

UPRIGHT BAGGAGE
SCREENING

EASY LOADING CONVEYOR

NETWORK ENABLED

COST EFFECTIVE

STANDARD FEATURES

- Multi Energy Imaging (4 Color)
- View Previous/Next Bag
- Image Archive
- Configurable Image Processing Keys
- Baggage Counter
- Date / Time Display
- Search Indicator
- UPS (Uninterrupted Power Supply)
- Multi Language Support
- Flat Panel Monitor

**STANDARD IMAGE PROCESSING
FUNCTIONS**

- Crystal Clear™
- Black and White
- Organic / Inorganic Stripping
- Inverse Video
- High Penetration
- Pseudo Color
- Low Penetration
- Variable Edge Enhancement
- Variable Color Stripping
- Variable Gamma
- Variable Density
- Dynamic Continuous Zoom & Panning
- Fixed Zoom (64x)

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RAPISCAN 624XR



Tunnel Opening (width x height):
550 x 850 mm (21.7 x 33.5 in)

WITH A HIGH TUNNEL OPENING AND A LOW CONVEYOR, THE RAPISCAN 624XR IS DESIGNED FOR EASY LOADING AND UNLOADING OF UPRIGHT BAGGAGE.

The 624XR's dual-energy detection provides material discrimination so that screeners can identify the material composition of a scanned object, while its compact footprint allows customers to make the most of the available space at a checkpoint.

**DETECTION OF EXPLOSIVES AND
NARCOTICS ALERT**

Target™ and NARCScreen™ are designed to assist operators in the detection of a range of explosives and narcotics respectively in real time during the scanning process by marking a potential threat on the X-ray image. Rapiscan detection algorithms are based on regulatory material analysis techniques.

**EASE OF USE PROVIDING HIGHEST
THROUGHPUT**

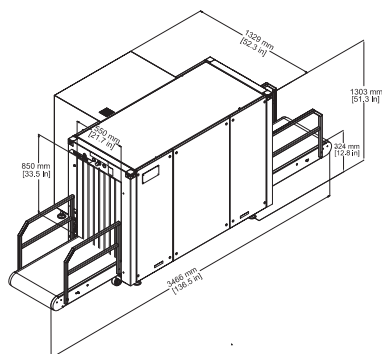
With over 13 image processing tools and detection alert algorithm function, the feature rich software allows the operator to more easily and accurately search for contraband.

REGULATORY COMPLIANCE

Rapiscan 624XR performance is in full compliance with the European Union regulations (EC) No. 300/2008, (EU) No. 2015/1998 and Commissions Decision C (2015)8005 for aviation security.



RAPISCAN 624XR



PHYSICAL SPECIFICATIONS

Dimensions:	Length: 3,466 mm (136.5 in.) Width: 1,329 mm (52.3 in.) Height: 1,303 mm (51.3 in.)
Tunnel Size:	550 mm (W) x 850 mm (H) [21.7 x 33.5 in.]
Conveyor Speed:	0.20 m/sec (39.4 ft./min)
Conveyor Load (Max):	165 Kg (364 lbs) evenly distributed
Conveyor Height:	324 mm (12.8 in.)
Weight (Approx.):	Net: 709 Kg (1,563 lbs)
System Power:	115/230 VAC ±10%, 60/50Hz

STANDARD X-RAY GENERATOR AND IMAGE PERFORMANCE¹

Steel Penetration:	30 mm typical; 28 mm standard
Wire Resolution:	40 AWG typical; 38 AWG standard
Generator Cooling:	Sealed oil bath with forced air
Anode Voltage:	Operating at 140kV
Tube Current:	0.7 mA
Orientation:	Horizontal

HIGH PENETRATION X-RAY GENERATOR AND IMAGE PERFORMANCE¹

Steel Penetration:	40 mm typical; 35 mm standard
Wire Resolution:	40 AWG typical; 38 AWG standard
Anode Voltage:	Operating at 160kV
Tube Current:	1.0 mA

OPERATING ENVIRONMENT

Storage Temperature:	-20°C to 50°C
Operating Temperature:	0°C to 40°C
Relative Humidity:	5 to 95% non-condensing

PROTECTION CLASS

System:	IP20
Operator Control Panel:	IP43 ²

REGULATORY

- TSA Air Cargo Screening Technology List (ACSTL) Qualified
- Regulation (EC) No. 300/2008 Compliant
- Regulation (EU) No. 2015/1998 Compliant
- EU Commissions Decision (EU) C(2015)8005 Compliant
- French Civil Aviation Authority (STAC) Certified

HEALTH & SAFETY

Rapiscan Systems' cabinet X-ray products comply with all applicable U.S. FDA and equivalent international regulatory agency requirements, contained in the cabinet X-ray radiation safety performance standard [21 CFR 1020.40] and the general performance standard [21 CFR Part 1010] as well as IEC standard 61010-2-091. Rapiscan baggage and parcel inspection systems radiation emission leakages are well below the required regulatory limits with less than 1 µSv/hr at 10 cm from all surfaces of cabinet X-ray.

Rapiscan®
systems

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OPTIONS AND ACCESSORIES

- Explosives Detection Alert (Target™)
- Narcotics Detection Alert (NARCSan™)
- Density Threshold Alert (DTA)
- Threat Image Projection (TIP)
- Threat Image Projection Network (TIPNet)
- Remote Image Archive Review (NETView™)
- Network X-ray management automation and link system (NEXLink™)
- Multi-System Network Display Station (NDS)
- Automatic Image Archiving
- Enhanced Image Archiving
- Operator Training Program (OTP)
- Manual Scan
- Operator Pedestal
- Foot Mat
- Optical Operator Presence Sensor
- SmartCard Login
- Power Conditioner
- Conveyor Accessories
- Remote Workstation
- Universal Printer Support

¹ Stated performance as measured by Rapiscan Imaging Validation Test Kit.

² With optional replaceable cover.

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EFFICIENT X-RAY SCREENING FOR LARGER BAGGAGE AND PARCELS.

LARGE BAGGAGE AND PARCEL
SCREENING

PROVEN PERFORMANCE FOR
CUSTOMS APPLICATIONS

COMPACT FOOTPRINT

NETWORK ENABLED

STANDARD FEATURES

- Multi Energy Imaging (4 Color)
- View Previous/Next Bag
- Image Archive
- Configurable Image Processing Keys
- Baggage Counter
- Date / Time Display
- Search Indicator
- UPS (Uninterrupted Power Supply)
- Multi Language Support
- Flat Panel Monitor

STANDARD IMAGE PROCESSING FUNCTIONS

- Crystal Clear™
- Black and White
- Organic / Inorganic Stripping
- Inverse Video
- High Penetration
- Pseudo Color
- Low Penetration
- Variable Edge Enhancement
- Variable Color Stripping
- Variable Gamma
- Variable Density
- Dynamic Continuous Zoom & Panning
- Fixed Zoom (64x)

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RAPISCAN 626XR



Tunnel Opening (width x height):
950 x 650 mm (37.4 x 25.6 in)

THE RAPISCAN 626XR CAN EFFICIENTLY SCREEN LARGER BAGGAGE, PARCELS, PACKAGES AND IRREGULAR SHAPED OBJECTS FOR AIR CARGO SCREENING AND CUSTOMS APPLICATIONS. IT ALSO FEATURES EASY LOADING CONVEYORS AND A COMPACT FOOTPRINT THAT ALLOWS CUSTOMERS TO MAKE THE MOST OF THE AVAILABLE SPACE.

Rapiscan 626XR complies with U.S. Code of Federal Regulations (CFRs) on performance standards for ionizing radiation-emitting products, electronics products, radio frequency devices, qualification of screening personnel, occupational noise exposure and occupational safety and health standards.

DETECTION OF EXPLOSIVES AND NARCOTICS ALERT

Target™ and NARCScan™ are designed to assist operators in the detection of a range of explosives and narcotics respectively in real time during the scanning process by marking a potential threat on the X-ray image. Rapiscan detection algorithms are based on regulatory material analysis techniques.

EASE OF USE PROVIDING HIGHEST THROUGHPUT

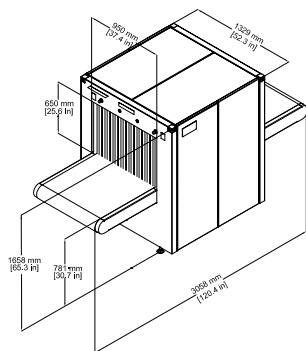
With over 13 image processing tools and detection alert algorithm functions, the feature rich software allows the operator to more easily and accurately search for contraband.

REGULATORY COMPLIANCE

Rapiscan 626XR performance is in full compliance with the European Union regulations (EC) No. 300/2008, (EU) No. 2015/1998 and Commissions Decision C (2015)8005 for aviation security.



RAPISCAN 626XR



PHYSICAL SPECIFICATIONS

Dimensions:	Length: 3,058 mm (120.4 in.) Width: 1,329 mm (52.3 in.) Height: 1,658 mm (65.3 in.)
Tunnel Size:	950 mm (W) x 650 mm (H) (37.4 x 25.6 in.)
Conveyor Speed:	0.20 m/sec (39.4 ft./min)
Conveyor Load (Max):	165 Kg (364 lbs) evenly distributed
Conveyor Height:	781 mm (30.7 in.)
Weight (Approx.):	Net: 850 Kg (1,874 lbs)
System Power:	115/230 VAC $\pm 10\%$, 60/50Hz

STANDARD GENERATOR/ IMAGE PERFORMANCE¹

Steel Penetration:	30 mm typical; 28 mm standard
Wire Resolution:	40 AWG typical; 38 AWG standard
Generator Cooling:	Sealed oil bath with forced air
Anode Voltage:	Operating at 140kV
Tube Current:	0.7 mA
Orientation:	Vertically Upward

HIGH PENETRATION GENERATOR/ IMAGE PERFORMANCE¹

Steel Penetration:	40 mm typical; 35 mm standard
Wire Resolution:	40 AWG typical; 38 AWG standard
Anode Voltage:	Operating at 160kV
Tube Current:	1.0 mA

OPERATING ENVIRONMENT

Storage Temperature:	-20°C to 50°C
Operating Temperature:	0°C to 40°C
Relative Humidity:	5 to 95% non-condensing

PROTECTION CLASS

System:	IP20
Operator Control Panel:	IP43 ²

REGULATORY

- Regulation (EC) No. 300/2008 Compliant
- Regulation (EU) No. 2015/1998 Compliant
- EU Commissions Decision (EU) C(2015)8005 Compliant
- French Civil Aviation Authority (STAC) Certified

HEALTH & SAFETY

Rapiscan Systems' cabinet X-ray products comply with all applicable U.S. FDA and equivalent international regulatory agency requirements, contained in the cabinet X-ray radiation safety performance standard [21 CFR 1020.40] and the general performance standard [21 CFR Part 1010] as well as IEC standard 61010-2-091.

Rapiscan baggage and parcel inspection systems radiation emission leakages are well below the required regulatory limits with less than 1 μ Sv/hr at 10 cm from all surfaces of cabinet X-ray.

Rapiscan[®] systems

An OSI Systems Company

OPTIONS AND ACCESSORIES

- Explosives Detection Alert (Target™)
- Narcotics Detection Alert (NARCScan™)
- Density Threshold Alert (DTA)
- Threat Image Projection (TIP)
- Threat Image Projection Network (TIPNet)
- Remote Image Archive Review (NETview™)
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- Automatic Image Archiving
- Enhanced Image Archiving
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- Manual Scan
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- Remote Workstation
- Universal Printer Support

¹ Stated performance as measured by Rapiscan Imaging Validation Test Kit.

² With optional replaceable cover.

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EFFICIENT X-RAY SCREENING FOR LARGE BAGGAGE AND PARCELS.

LARGE PARCEL AND SMALL
CARGO SCREENING

MEETS GLOBAL REGULATORY
REQUIREMENTS

NETWORK ENABLED

COST EFFECTIVE

STANDARD FEATURES

- Multi Energy Imaging (4 Color)
- View Previous/Next Bag
- Image Archive
- Configurable Image Processing Keys
- Baggage Counter
- Date / Time Display
- Search Indicator
- UPS (Uninterrupted Power Supply)
- Multi Language Support
- Flat Panel Monitor

STANDARD IMAGE PROCESSING FUNCTIONS

- Crystal Clear™
- Black and White
- Organic / Inorganic Stripping
- Inverse Video
- High Penetration
- Pseudo Color
- Low Penetration
- Variable Edge Enhancement
- Variable Color Stripping
- Variable Gamma
- Variable Density
- Dynamic Continuous Zoom & Panning
- Fixed Zoom (64x)

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RAPISCAN 627XR



Tunnel Opening (width x height):
1,000 x 1,000 mm (39.4 x 39.4 in)

THE RAPISCAN 627XR IS DESIGNED FOR SCREENING SMALL CARGO AS WELL AS BAGGAGE AND LARGE PARCELS FOR AIR CARGO AND CUSTOMS APPLICATIONS.

With a 1,000 mm wide by 1,000 mm high tunnel opening, the Rapiscan 627XR meets the stringent requirements of multiple global regulatory requirements including U.S. Transportation Security Administration (TSA), French civil aviation authority (STAC), and Transport Canada (TC).

DETECTION OF EXPLOSIVES AND NARCOTICS ALERT

Target™ and NARCSan™ are designed to assist operators in the detection of a range of explosives and narcotics respectively in real time during the scanning process by marking a potential threat on the X-ray image. Rapiscan detection algorithms are based on regulatory material analysis techniques.

SAFETY IS OUR #1 FOCUS

Rapiscan 627XR complies with U.S. Code of Federal Regulations (CFRs) on performance standards for ionizing radiation-emitting products, electronics products, radio frequency devices, qualification of screening personnel, occupational noise exposure and occupational safety and health standards.

EASE OF USE PROVIDING HIGHEST THROUGHPUT

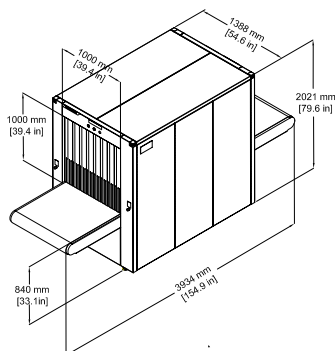
With over 13 image processing tools and detection alert algorithm functions, the feature rich software allows the operator to more easily and accurately search for contraband.

REGULATORY COMPLIANCE

Rapiscan 627XR performance is in full compliance with the European Union regulations [EC] No. 300/2008, [EU] No. 2015/1998 and Commissions Decision C (2015)8005 for aviation security.



RAPISCAN 627XR



PHYSICAL SPECIFICATIONS

Dimensions:	Length: 3,934 mm [154.9 in.]
	Width: 1,388 mm [54.6 in.]
	Height: 2,021 mm [79.6 in.]
Tunnel Size:	1,000 mm (W) x 1,000 mm (H) [39.4 x 39.4 in.]
Conveyor Speed:	0.20 m/sec [39.4 ft./min]
Conveyor Load:	200 Kg (441 lbs) evenly distributed (Max)
Conveyor Height:	840 mm [33.1 in.]
Weight (Approx.):	Net: 1,160 Kg (2,557 lbs)
System Power:	115/230 VAC $\pm$ 10% / 60/50Hz

STANDARD GENERATOR/ IMAGE PERFORMANCE¹

Steel Penetration:	30 mm typical; 28 mm standard
Wire Resolution:	40 AWG typical; 38 AWG standard
Generator Cooling:	Sealed oil bath with forced air
Anode Voltage:	Operating at 140kV
Tube Current:	0.7 mA
Orientation:	Vertical and Horizontal

HIGH PENETRATION X-RAY GENERATOR AND IMAGE PERFORMANCE¹

Steel Penetration:	40 mm typical; 35 mm standard
Wire Resolution:	40 AWG typical; 38 AWG standard
Generator Cooling:	Sealed oil bath with forced air
Anode Voltage:	Operating at 160kV
Tube Current:	1.0 mA
Orientation:	Vertical and Horizontal

OPERATING ENVIRONMENT

Storage Temperature:	-20°C to 50°C
Operating Temperature:	0°C to 40°C
Relative Humidity:	5 to 95% non-condensing

PROTECTION CLASS

System:	IP20
Operator Control Panel:	IP43 ²

REGULATORY

- TSA Air Cargo Screening Technology List (ACSTL) Qualified
- Transport Canada (TC) Air Cargo Qualified
- Regulation (EC) No. 300/2008 Compliant
- Regulation (EU) No. 2015/1998 Compliant
- EU Commissions Decision (EU) C(2015)8005 Compliant
- French Civil Aviation Authority (STAC) Certified

HEALTH & SAFETY

Rapiscan Systems' cabinet X-ray products comply with all applicable U.S. FDA and equivalent international regulatory agency requirements, contained in the cabinet X-ray radiation safety performance standard [21 CFR 1020.40] and the general performance standard [21 CFR Part 1010] as well as IEC standard 61010-2-091.

Rapiscan baggage and parcel inspection systems radiation emission leakages are well below the required regulatory limits with less than 1 μ Sv/hr at 10 cm from all surfaces of cabinet X-ray.

Rapiscan[®]
systems

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OPTIONS AND ACCESSORIES

- Explosives Detection Alert (Target™)
- Narcotics Detection Alert (NARCSan™)
- Density Threshold Alert (DTA)
- Threat Image Projection (TIP)
- Threat Image Projection Network (TIPNet)
- Remote Image Archive Review (NETview™)
- Network X-ray management automation and link system (NEXLink™)
- Multi-System Network Display Station (NDS)
- Automatic Image Archiving
- Enhanced Image Archiving
- Operator Training Program (OTP)
- Manual Scan
- Operator Pedestal
- Foot Mat
- Optical Operator Presence Sensor
- SmartCard Login
- Power Conditioner
- Conveyor Accessories
- Remote Workstation
- Universal Printer Support

¹ Stated performance as measured by Rapiscan Imaging Validation Test Kit.

² With optional replaceable cover.

With continual development of our products Rapiscan Systems reserves the right to amend specifications without notice. Product pictures are for general reference. Please note that due to US laws and regulations, not all Rapiscan products are available for sale in all countries without restriction. Please contact your Rapiscan Systems sales representative for more information.

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Certified to
AS9100C



Rapiscan Systems is AS9100C:2009 and ISO 14001:2004 + Cor. 1:2009 Certified

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LARGE TUNNEL WITH DUAL VIEW TECHNOLOGY FOR COMPREHENSIVE X-RAY SCREENING OF LARGE BAGGAGE AND PARCELS.

LARGE PARCEL AND SMALL CARGO SCREENING

DUAL VIEW TECHNOLOGY

COMPLEX PARCELS

COST EFFECTIVE

STANDARD FEATURES

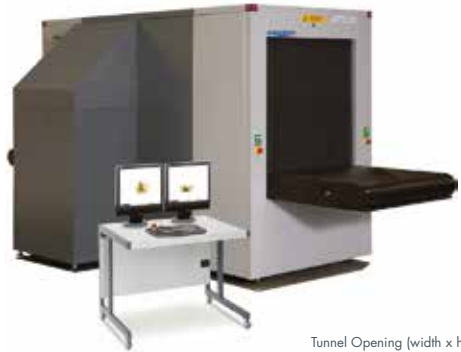
- Multi Energy Imaging (4 Color)
- View Previous/Next Bag
- Image Archive
- Configurable Image Processing Keys
- Baggage Counter
- Date / Time Display
- Search Indicator
- UPS (Uninterrupted Power Supply)
- Multi Language Support
- Flat Panel Monitor

STANDARD IMAGE PROCESSING FUNCTIONS

- Crystal Clear™
- Black and White
- Organic / Inorganic Stripping
- Inverse Video
- High Penetration
- Pseudo Color
- Low Penetration
- Variable Edge Enhancement
- Variable Color Stripping
- Variable Gamma
- Variable Density
- Dynamic Continuous Zoom & Panning
- Fixed Zoom (64x)

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RAPISCAN 627DV



Tunnel Opening (width x height):
1,000 x 1,000 mm (39.4 x 39.4 in)

WITH A LARGE TUNNEL OPENING OF 1,000 MM X 1,000 MM, THE RAPISCAN 627DV IS DESIGNED FOR SCREENING SMALL CARGO AND PARCELS FOR CUSTOMS, AIR CARGO AND INFRASTRUCTURE PROTECTION SCREENING APPLICATIONS.

The Rapiscan 627DV has been approved and included on the U.S. TSA Air Cargo Screening Technology List (ACSTL) and the Transport Canada (TC) Air Cargo Security Program (ACS).

DETECTION OF EXPLOSIVES AND NARCOTICS ALERT

Target™ and NARCScan™ are designed to assist operators in the detection of a wide range of explosives and narcotics respectively in real time during the scanning process by marking a potential threat on the X-ray image. Rapiscan detection algorithms are based on regulatory material analysis techniques.

MEETING TODAY'S MOST STRINGENT GLOBAL REQUIREMENTS

Rapiscan 627DV meets the most rigorous detection and image quality requirements as set by the U.S. Transportation Security Administration (TSA), French civil aviation authority (STAC), and Transport Canada (TC).

REGULATORY COMPLIANCE

Rapiscan 627DV performance is in full compliance with the European Union regulations (EC) No. 300/2008, (EU) No. 2015/1998 and Commissions Decision C (2015)8005 for aviation security.

DUAL VIEW ADVANCED TECHNOLOGY

As mandated by US and EU regulators, the 627DV utilizes a Dual View technology which produces two simultaneous images (vertical and horizontal views) of the scanned object. It provides a more complete image, thereby reducing the need for repositioning and rescanning and enabling rapid, accurate and comprehensive threat detection.

EASE OF USE PROVIDING HIGHEST THROUGHPUT

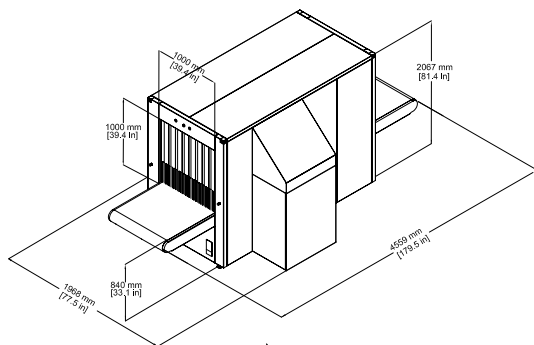
With over 13 image processing tools and detection alert algorithm functions, the feature rich software allows the operator to more easily and accurately search for contraband.

DARC ALARM

Rapiscan's proprietary detection algorithm that detects areas of high density while screening air cargo. Rapiscan collaborated closely with the U.K. Department for Transport to create DARC alarm and jointly executed the necessary test trials to verify the effectiveness of the DARC Alarm algorithm.



RAPISCAN 627DV



PHYSICAL SPECIFICATIONS

Dimensions:	Length: 4,559 mm (179.5 in.) Width: 1,968 mm (77.5 in.) Height: 2,067 mm (81.4 in.)
Tunnel Size:	1,000 mm (W) x 1,000 mm (H) (39.4 x 39.4 in.)
Conveyor Speed:	0.20 m/sec (39.4 ft./min)
Conveyor Load:	200 Kg (441 lbs) evenly distributed
Conveyor Height:	840 mm (33.1 in.)
Approx Weight:	Net: 1,653 Kg (3,644 lbs)
System Power:	115/230VAC $\pm 10\%$, 60/50Hz

STANDARD GENERATOR/ IMAGE PERFORMANCE¹

Steel Penetration:	30 mm typical; 28 mm standard
Wire Resolution:	40 AWG typical; 38 AWG standard
Generator Cooling:	Sealed oil bath with forced air
Anode Voltage:	Operating at 140kV
Tube Current:	0.7 mA
Orientation:	Vertical and Horizontal

HIGH PENETRATION GENERATOR/ IMAGE PERFORMANCE¹

Steel Penetration:	40 mm typical; 35 mm standard
Wire Resolution:	40 AWG typical; 38 AWG standard
Generator Cooling:	Sealed oil bath with forced air
Anode Voltage:	Operating at 160kV
Tube Current:	1.0 mA
Orientation:	Vertical and Horizontal

OPERATING ENVIRONMENT

Storage Temperature:	-20°C to 50°C
Operating Temperature:	0°C to 40°C
Relative Humidity:	5 to 95% non-condensing

PROTECTION CLASS

System:	IP20
Operator Control Panel:	IP43 ²

REGULATORY

- TSA Air Cargo Screening Technology List (ACSTL) Qualified
- Transport Canada (TC) Air Cargo Qualified
- Regulation (EC) No. 300/2008 Compliant
- Regulation (EU) No. 2015/1998 Compliant
- EU Commissions Decision (EU) C(2015)8005 Compliant
- French Civil Aviation Authority (STAC) Certified

HEALTH & SAFETY

Rapiscan Systems' cabinet X-ray products comply with all applicable U.S. FDA and equivalent international regulatory agency requirements, contained in the cabinet X-ray radiation safety performance standard [21 CFR 1020.40] and the general performance standard [21 CFR Part 1010] as well as IEC standard 61010-2-091.

Rapiscan baggage and parcel inspection systems radiation emission leakages are well below the required regulatory limits with less than 1 μ Sv/hr at 10 cm from all surfaces of cabinet X-ray.

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OPTIONS AND ACCESSORIES

- Explosives Detection Alert (Target™)
- Narcotics Detection Alert (NARCSan™)
- Density Threshold Alert (DTA)
- Threat Image Projection (TIP)
- Threat Image Projection Network (TIPNet)
- Remote Image Archive Review (NETView™)
- Network X-ray management automation and link system (NEXLink™)
- Multi-System Alarm Resolution Network Display Station (NDS)
- Automatic Image Archiving
- Enhanced Image Archiving
- Operator Training Program (OTP)
- Manual Scan
- Operator Pedestal
- Foot Mat
- Optical Operator Presence Sensor
- SmartCard Login
- Power Conditioner
- Conveyor Accessories
- Remote Workstation
- Universal Printer Support

¹Stated performance as measured by Rapiscan Imaging Validation Test Kit. Stated Dual View performance as measured in primary view.

² With optional replaceable cover.

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EASY LOADING CONVEYOR AND LARGE TUNNEL FOR X-RAY SCREENING OF LARGE BAGGAGE AND PARCELS.

LARGE PARCEL AND SMALL
CARGO SCREENING

EASY LOADING CONVEYOR

MEETS GLOBAL REGULATORY
REQUIREMENTS

COST EFFECTIVE

STANDARD FEATURES

- Multi Energy Imaging (4 Color)
- View Previous/Next Bag
- Image Archive
- Configurable Image Processing Keys
- Baggage Counter
- Date / Time Display
- Search Indicator
- UPS (Uninterrupted Power Supply)
- Multi Language Support
- Flat Panel Monitor

STANDARD IMAGE PROCESSING FUNCTIONS

- Crystal Clear™
- Black and White
- Organic / Inorganic Stripping
- Inverse Video
- High Penetration
- Pseudo Color
- Low Penetration
- Variable Edge Enhancement
- Variable Color Stripping
- Variable Gamma
- Variable Density
- Dynamic Continuous Zoom & Panning
- Fixed Zoom (64x)

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RAPISCAN 628XR



Tunnel Opening (width x height):
1,000 x 1,000 mm (39.4 x 39.4 in)

WITH A HIGH TUNNEL OPENING AND A LOW CONVEYOR, THE RAPISCAN 628XR IS DESIGNED FOR CUSTOMERS THAT NEED EASY LOADING AND UNLOADING OF SMALL CARGO AS WELL AS BAGGAGE AND LARGE PARCELS DURING THE SCREENING PROCESS FOR AVIATION CHECK-IN, AIR CARGO AND CUSTOMS INSPECTION.

With a 1,000 mm wide by 1,000 mm high tunnel opening, the Rapiscan 628XR meets the most stringent requirements of multiple global regulatory requirements including French civil aviation authority (STAC).

The Rapiscan 628XR has been approved and included on the U.S. TSA Air Cargo Screening Technology List (ACSTL) and the Transport Canada (TC) Air Cargo Security Program (ACS).

DETECTION OF EXPLOSIVES AND NARCOTICS ALERT

Target™ and NARCScan™ are designed to assist operators in the detection of a range of explosives and narcotics respectively in real time during the scanning process by marking a potential threat on the X-ray image. Rapiscan detection algorithms are based on regulatory material analysis techniques.

EASE OF USE PROVIDING HIGHEST THROUGHPUT

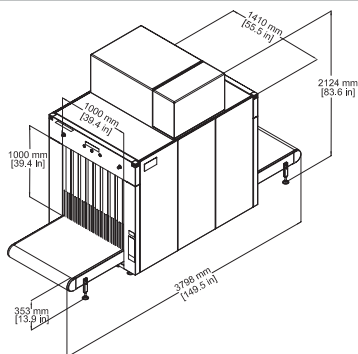
With over 13 image processing tools and detection alert algorithm functions, the feature rich software allows the operator to more easily and accurately search for contraband.

REGULATORY COMPLIANCE

Rapiscan 628XR performance is in full compliance with the European Union regulations (EC) No. 300/2008, (EU) No. 2015/1998 and Commissions Decision C (2015)8005 for aviation security.



RAPISCAN 628XR



PHYSICAL SPECIFICATIONS

Dimensions:	Length: 3,798 mm (149.5 in.) Width: 1,410 mm (55.5 in.) Height: 2,124 mm (83.6 in.)
Tunnel Size:	1,000 mm (W) x 1,000 mm (H) (39.4 x 39.4 in.)
Conveyor Speed:	0.20 m/sec (39.4 ft./min)
Conveyor Load (Max):	200 Kg (441 lbs) evenly distributed
Conveyor Height:	353 mm (13.9 in.)
Weight (Approx.):	Net: 1,250 Kg (2,756 lbs)
System Power:	115/230 VAC $\pm 10\%$, 60/50Hz

X-RAY GENERATOR AND IMAGE PERFORMANCE¹

Steel Penetration:	30 mm typical; 28 mm standard
Wire Resolution:	40 AWG typical; 38 AWG standard
Generator Cooling:	Sealed oil bath with forced air
Anode Voltage:	Operating at 160kV
Tube Current:	1.0 mA
Orientation:	Vertically Downward

OPERATING ENVIRONMENT

Storage Temperature:	-20°C to 50°C
Operating Temperature:	0°C to 40°C
Relative Humidity:	5 to 95% non-condensing

PROTECTION CLASS

System:	IP20
Operator Control Panel:	IP43 ²

REGULATORY

- TSA Air Cargo Screening Technology List (ACSTL) Qualified
- Transport Canada (TC) Air Cargo Qualified
- Regulation (EC) No. 300/2008 Compliant
- Regulation (EU) No. 2015/1998 Compliant
- EU Commissions Decision (EU) C[2015]8005 Compliant
- French Civil Aviation Authority (STAC) Certified

HEALTH & SAFETY

Rapiscan Systems' cabinet X-ray products comply with all applicable U.S. FDA and equivalent international regulatory agency requirements, contained in the cabinet X-ray radiation safety performance standard [21 CFR 1020.40] and the general performance standard [21 CFR Part 1010] as well as IEC standard 61010-2-091.

Rapiscan baggage and parcel inspection systems radiation emission leakages are well below the required regulatory limits with less than 1 μ Sv/hr at 10 cm from all surfaces of cabinet X-ray.

Rapiscan[®] systems

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OPTIONS AND ACCESSORIES

- Explosives Detection Alert (Target™)
- Narcotics Detection Alert (NARCScan™)
- Density Threshold Alert (DTA)
- Threat Image Projection (TIP)
- Threat Image Projection Network (TIPNet)
- Remote Image Archive Review (NETView™)
- Network X-ray management automation and link system (NEXLink™)
- Multi-System Network Display Station (NDS)
- Automatic Image Archiving
- Enhanced Image Archiving
- Operator Training Program (OTP)
- Manual Scan
- Operator Pedestal
- Foot Mat
- Optical Operator Presence Sensor
- SmartCard Login
- Power Conditioner
- Conveyor Accessories
- Remote Workstation
- Universal Printer Support

¹ Stated performance as measured by Rapiscan Imaging Validation Test Kit.

² With optional replaceable cover.

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Certified to
AS9100C



Product Range



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ISO 14001:2004 + Cor. 1:2009 Certified

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DUAL VIEW
TECHNOLOGY,
EASY LOADING
CONVEYOR
AND LARGE
TUNNEL FOR
X-RAY SCREENING
OF LARGE
BAGGAGE AND
SMALL CARGO.

LARGE PARCEL AND SMALL
CARGO SCREENING

DUAL VIEW TECHNOLOGY

EASY LOADING CONVEYOR

HIGH IMAGE QUALITY FOR
COMPLEX PARCELS

STANDARD FEATURES

- Multi Energy Imaging (4 Color)
- View Previous/Next Bag
- Image Archive
- Configurable Image Processing Keys
- Baggage Counter
- Date / Time Display
- Search Indicator
- UPS (Uninterrupted Power Supply)
- Multi Language Support
- Flat Panel Monitor

STANDARD IMAGE PROCESSING FUNCTIONS

- Crystal Clear™
- Black and White
- Organic / Inorganic Stripping
- Inverse Video
- High Penetration
- Pseudo Color
- Low Penetration
- Variable Edge Enhancement
- Variable Color Stripping
- Variable Gamma
- Variable Density
- Dynamic Continuous Zoom & Panning
- Fixed Zoom (64x)

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Tunnel Opening (width x height):
1,000 x 1,000 mm (39.4 x 39.4 in)

WITH A LARGE TUNNEL OPENING OF AND A LOW CONVEYOR, THE RAPISCAN 628DV IS DESIGNED FOR SCREENING SMALL CARGO AS WELL AS BAGGAGE AND LARGE PARCELS FOR AIR CARGO, CUSTOMS, CRITICAL INFRASTRUCTURE PROTECTION AS WELL AS AVIATION CHECK-IN SCREENING APPLICATIONS.

With a 1,000 mm wide by 1,000 mm high tunnel opening, the Rapiscan 628DV meets the most stringent requirements of multiple global regulatory requirements including French civil aviation authority (STAC).

The Rapiscan 628DV has been approved and included on the U.S. TSA Air Cargo Screening Technology List (ACSTL) and the Transport Canada (TC) Air Cargo Security Program (ACS).

DETECTION OF EXPLOSIVES AND NARCOTICS ALERT

Target™ and NARCScan™ are designed to assist operators in the detection of a range of explosives and narcotics respectively in real time during the scanning process by marking a potential threat on the X-ray image. Rapiscan detection algorithms are based on regulatory material analysis techniques.

REGULATORY COMPLIANCE

Rapiscan 628DV performance is in full compliance with the European Union regulations (EC) No. 300/2008, (EU) No. 2015/1998 and Commissions Decision C (2015)8005 for aviation security.

EASE OF USE PROVIDING HIGHEST THROUGHPUT

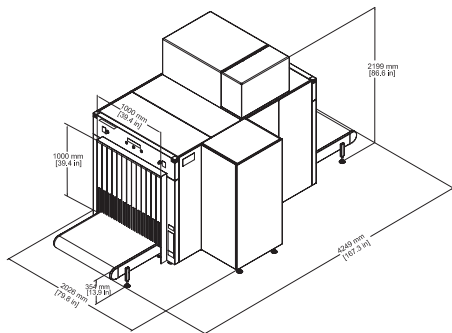
With over 13 image processing tools and detection alert algorithm functions, the feature rich software allows the operator to more easily and accurately search for contraband.

DUAL VIEW ADVANCED TECHNOLOGY

As mandated by US and EU regulators, the 628DV utilizes a dual-view technology which produces two simultaneous images (vertical and horizontal views) of the scanned object. It provides a more complete image, thereby reducing the need for repositioning and rescanning and enabling rapid, accurate and comprehensive threat detection.



RAPISCAN 628DV



PHYSICAL SPECIFICATIONS

Dimensions:	Length: 4,249 mm (167.3 in.) Width: 2,026 mm (79.8 in.) Height: 2,199 mm (86.6 in.)
Tunnel Size:	1,000 mm (39.4 in.) x 1,000 mm (39.4 in.)
Conveyor Speed:	0.20 m/sec (39.4 ft./min)
Conveyor Load (Max):	200 Kg (441 lbs) evenly distributed
Conveyor Height:	354 mm (13.9 in.)
Weight (Approx.):	Net: 1,772 Kg (3,907 lbs)
System Power:	115/230 VAC ±10%, 60/50Hz

X-RAY GENERATOR AND IMAGE PERFORMANCE¹

Steel Penetration:	30 mm typical; 28 mm standard
Wire Resolution:	40 AWG typical; 38 AWG standard
Generator Cooling:	Sealed oil bath with forced air
Anode Voltage:	Operating at 160kV
Tube Current:	1.0 mA
Orientation:	Vertically Downward and Horizontal

OPERATING ENVIRONMENT

Storage Temperature:	-20°C to 50°C
Operating Temperature:	0°C to 40°C
Relative Humidity:	5 to 95% non-condensing

PROTECTION CLASS

System:	IP20
Operator Control Panel:	IP43 ²

REGULATORY

- TSA Air Cargo Screening Technology List (ACSTL) Qualified
- Transport Canada (TC) Air Cargo Qualified
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Rapiscan
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OPTIONS AND ACCESSORIES

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- Narcotics Detection Alert (NARCSan™)
- Density Threshold Alert (DTA)
- Threat Image Projection (TIP)
- Threat Image Projection Network (TIPNet)
- Remote Image Archive Review (NETView™)
- Network X-ray management automation and link system (NEXLink™)
- Multi-System Network Display Station (NDS)
- Automatic Image Archiving
- Enhanced Image Archiving
- Operator Training Program (OTP)
- Manual Scan
- Foot Mat
- Optical Operator Presence Sensor
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- Conveyor Accessories
- Remote Workstation
- Universal Printer Support

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A GENEROUS
TUNNEL SIZE
AND HEAVY
DUTY ROLLER BED
CAN SCREEN
SECURED PALLETS
AND CARGO
WITHOUT
UNWRAPPING.

LOW POWER CONSUMPTION

HEAVY DUTY ROLLER BED

1.50KV OR 200KV GENERATOR

13 IMAGE PROCESSING
TOOLS

EXPLOSIVES AND NARCOTICS
DETECTION ALERT

COST EFFECTIVE

STANDARD FEATURES

- Multi Energy Imaging (4 Color)
- View Previous/Next Bag
- Image Archive
- Configurable Image Processing Keys
- Baggage Counter
- Date / Time Display
- Search Indicator
- UPS (Uninterrupted Power Supply)
- Multi Language Support
- Flat Panel Monitor

STANDARD IMAGE PROCESSING FUNCTIONS

- Crystal Clear™
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- Inverse Video
- High Penetration
- Pseudo Color
- Low Penetration
- Variable Edge Enhancement
- Variable Color Stripping
- Variable Gamma
- Variable Density
- Dynamic Continuous Zoom & Panning
- Fixed Zoom (64x)



Tunnel Opening (width x height):
1,537 x 1,650 mm (60.5 x
65.0 in)

WITH A LARGE TUNNEL OPENING, A HEAVY-DUTY ROLLER BED, AND TWO X-RAY GENERATOR OPTIONS, THE RAPISCAN 632XR IS DESIGNED TO INSPECT PALLETS AND OTHER LARGE CARGO WEIGHING UP TO 3,000 KGS (6,614 POUNDS) WITHOUT COMPROMISING THROUGHPUT.

ISO Standard 6780 and lower deck pallet types can be screened either wrapped or as break bulk for maximum operational flexibility. With high resolution imaging, abundant image processing tools and explosives and narcotics detection alert features operators can detect potential threats, counter trade fraud and identify contraband.

DETECTION OF EXPLOSIVES AND NARCOTICS ALERT

Target™ and NARCSan™ are designed to assist operators in the detection of a range of explosives and narcotics respectively in real time during the scanning process by marking a potential threat on the X-ray image. Rapiscan detection algorithms are based on regulatory material analysis techniques.

MEETING TODAY'S MOST STRINGENT GLOBAL REQUIREMENTS

Rapiscan 632XR meets the most rigorous detection and image quality requirements as set by the U.S. Transportation Security Administration (TSA), and French civil aviation authority (STAC).

EASE OF USE PROVIDING HIGHEST THROUGHPUT

With over 13 image processing tools and detection alert algorithm functions, the feature rich software allows the operator to more easily and accurately search for contraband.

REGULATORY COMPLIANCE

Rapiscan 632XR performance is in full compliance with the European Union regulations [EC] No. 300/2008, [EU] No. 2015/1998 and Commissions Decision C [2015]8005 for aviation security.



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Technical drawing of the 'Kapsle' container showing dimensions in mm and inches:

- Overall length: 2044 mm (80.5 in)
- Overall width: 2048 mm (80.6 in)
- Front door width: 1000 mm (39.4 in)
- Front door height: 345 mm (13.6 in)
- Front door depth: 160 mm (6.3 in)
- Front door frame width: 160 mm (6.3 in)
- Front door frame height: 160 mm (6.3 in)
- Front door frame depth: 160 mm (6.3 in)
- Front door frame width (inner): 160 mm (6.3 in)
- Front door frame height (inner): 160 mm (6.3 in)
- Front door frame depth (inner): 160 mm (6.3 in)
- Front door frame width (outer): 160 mm (6.3 in)
- Front door frame height (outer): 160 mm (6.3 in)
- Front door frame depth (outer): 160 mm (6.3 in)
- Front door frame width (inner): 160 mm (6.3 in)
- Front door frame height (inner): 160 mm (6.3 in)
- Front door frame depth (inner): 160 mm (6.3 in)
- Front door frame width (outer): 160 mm (6.3 in)
- Front door frame height (outer): 160 mm (6.3 in)
- Front door frame depth (outer): 160 mm (6.3 in)

1,537 x 1,650 mm
60.5 x 65.0 in.
0.20 m/sec [39.4 ft/min]
345 mm [13.6 in.]
6,608 x 2,816 x 2,244 mm
260.2 x 110.9 x 82.6 in.
Net: 3,449 Kg [7,604 lbs]
3,000 Kg [6,614 lbs] at 230V
1,500 Kg [3,307 lbs] at 115V
115/230 VAC $\pm 10\%$ /
60/50Hz

Operating at 200kV
1.0 mA
50 mm typical,
45 mm standard
40 AWG typical,
38 AWG standard
Horizontal
Sealed oil Bath with forced air

0°C to 40°C
-20°C to 50 °C
5 to 95% non-condensing

IP20
IP43²

Rapiscan Systems' cabinet X-ray products comply with all applicable U.S. FDA and equivalent international regulatory agency requirements, contained in the cabinet X-ray radiation safety performance standard [21 CFR 1020.40] and the general performance standard [21 CFR Part 1010] as well as IEC standard 61010-2-091.

91107423-6 032417

DUAL VIEW TECHNOLOGY AND A HEAVY DUTY DESIGN FOR PALLET AND AIR CARGO X-RAY SCREENING.

ADVANCED CARGO SCREENING

DUAL VIEW TECHNOLOGY

BREAK BULK AND PALLET CARGO

DETECTION OF EXPLOSIVES AND NARCOTICS ALERT

STANDARD FEATURES

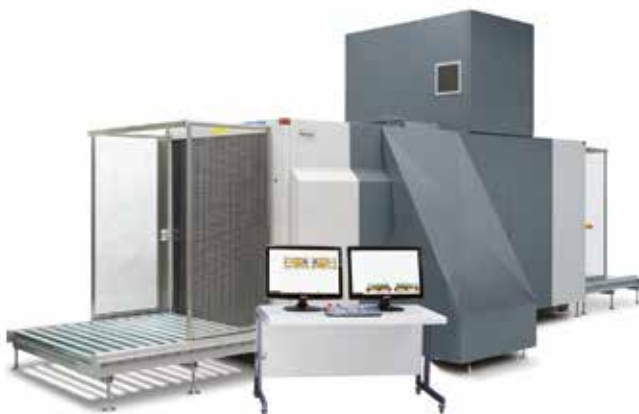
- Multi Energy Imaging (4 Color)
- View Previous/Next Bag
- Image Archive
- Configurable Image Processing Keys
- Baggage Counter
- Date / Time Display
- Search Indicator
- UPS (Uninterrupted Power Supply)
- Multi Language Support
- Flat Panel Monitor

STANDARD IMAGE PROCESSING FUNCTIONS

- Crystal Clear™
- Black and White
- Organic / Inorganic Stripping
- Inverse Video
- High Penetration
- Pseudo Color
- Low Penetration
- Variable Edge Enhancement
- Variable Color Stripping
- Variable Gamma
- Variable Density
- Dynamic Continuous Zoom & Panning
- Fixed Zoom (64x)

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RAPISAN 632DV



Tunnel Opening (width x height):
1,537 x 1,650 mm (60.5 x 65.0 in)

THE RAPISCAN 632DV IS AN ADVANCED CARGO AND LARGE PARCEL SYSTEM DESIGNED FOR INSPECTION OF PALLET AND BREAK BULK CARGO SCREENING. THE RAPISCAN 632DV TUNNEL OPENING OF 1,500 MM X 1650 MM, DETECTION OF EXPLOSIVES AND NARCOTICS ALERT, DUAL VIEW TECHNOLOGY, AND SUPERIOR IMAGE QUALITY ALLOWS HIGH THROUGHPUT OF SCREENED OBJECTS.

The Rapiscan 632DV has been approved and included on the U.S. TSA Air Cargo Screening Technology List (ACSTL) and the Transport Canada (TC) Air Cargo Security Program (ACS).

DETECTION OF EXPLOSIVES AND NARCOTICS ALERT

Target™ and NARCScan™ are designed to assist operators in the detection of a range of explosives and narcotics respectively in real time during the scanning process by marking a potential threat on the X-ray image. Rapiscan detection algorithms are based on regulatory material analysis techniques.

REGULATORY COMPLIANCE

Rapiscan 632DV performance is in full compliance with the European Union regulations (EC) No. 300/2008, (EU) No. 2015/1998 and Commissions Decision C (2015)8005 for aviation security.

EASE OF USE PROVIDING HIGHEST THROUGHPUT

With over 13 image processing tools and detection alert algorithm functions, the feature rich software allows the operator to more easily and accurately search for contraband.

DUAL VIEW ADVANCED TECHNOLOGY

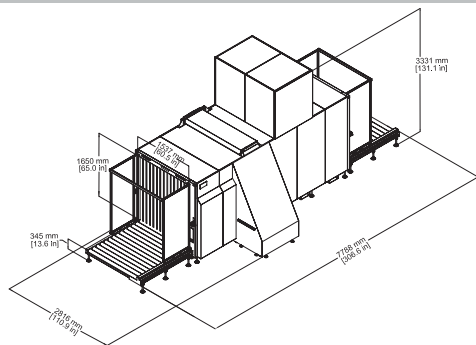
As mandated by US and EU regulators, the 632DV utilizes a dual-view technology which produces two simultaneous images (vertical and horizontal views) of the scanned object. It provides a more complete image, thereby reducing the need for repositioning and rescanning and enabling rapid, accurate and comprehensive threat detection.

DARC ALARM

Rapiscan's proprietary detection algorithm that detects areas of high density while screening air cargo. Rapiscan collaborated closely with the U.K. Department for Transport to create DARC alarm and jointly executed the necessary test trials to verify the effectiveness of the DARC Alarm algorithm.



RAPISCAN 632DV



PHYSICAL SPECIFICATIONS

Dimensions:	Length: 7,788 mm (306.6 in.) Width: 2,816 mm (110.9 in.) Height: 3,331 mm (131.1 in.)
Tunnel Size:	1,537 mm (60.5 in.) X 1,650 mm (65.0 in.)
Conveyor Speed:	0.20 m/sec (39.4 ft./min)
Conveyor Load (Max):	3,000 Kg (6,614 lbs) evenly distributed at 230 V 1,500 Kg (3,307 lbs) evenly distributed at 115 V
Conveyor Height:	345 mm (13.6 in.)
Weight (Approx.):	Net: 4,823 Kg (10,633 lbs)
System Power:	115/230 VAC $\pm$ 10%, 60/50Hz

X-RAY GENERATOR AND IMAGE PERFORMANCE¹

Steel Penetration:	50 mm typical; 45 mm standard
Wire Resolution:	40 AWG typical; 38 AWG standard
Cooling:	Sealed oil bath with forced air
Anode Voltage:	Operating at 200kV
Tube Current:	1.0 mA
Orientation:	Vertically Downward and Horizontal

OPERATING ENVIRONMENT

Storage Temperature:	-20°C to 50°C
Operating Temperature:	0°C to 40°C
Relative Humidity:	5 to 95% non-condensing

PROTECTION CLASS

System:	IP20
Operator Control Panel:	IP43 ²

REGULATORY

- TSA Air Cargo Screening Technology List (ACSTI) Qualified
- Transport Canada (TC) Air Cargo Qualified
- Regulation (EC) No. 300/2008 Compliant
- Regulation (EU) No. 2015/1998 Compliant
- EU Commissions Decision (EU) C(2015)8005 Compliant
- French Civil Aviation Authority (STAC) Certified

HEALTH & SAFETY

Rapiscan Systems' cabinet X-ray products comply with all applicable U.S. FDA and equivalent international regulatory agency requirements, contained in the cabinet X-ray radiation safety performance standard [21 CFR 1020.40] and the general performance standard [21 CFR Part 1010] as well as IEC standard 61010-2-091.

Rapiscan baggage and parcel inspection systems radiation emission leakages are well below the required regulatory limits with less than 1 μ Sv/hr at 10 cm from all surfaces of cabinet X-ray.

Rapiscan[®] systems

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OPTIONS AND ACCESSORIES

- Explosive Detection Alert (Target[™])
- Narcotics Detection Alert (NARCScan[™])
- Density Threshold Alert (DTA)
- Threat Image Projection (TIP)
- Threat Image Projection Network (TIPNet)
- Remote Image Archive Review (NETView[™])
- Network X-ray management automation and link system (NEXLink[™])
- Multi-System Network Display Station (NDS)
- Automatic Image Archiving
- Enhanced Image Archiving
- Operator Training Program (OTP)
- Manual Scan
- Foot Mat
- Optical Operator Presence Sensor
- SmartCard Login
- Power Conditioner
- Conveyor Accessories
- Universal Printer Support

¹ Stated performance as measured by Rapiscan Imaging Validation Test Kit.

Stated dual view performance as measured in primary view.

² With optional replaceable cover.

With continual development of our products Rapiscan Systems reserves the right to amend specifications without notice. Product pictures are for general reference. Please note that due to US laws and regulations, not all Rapiscan products are available for sale in all countries without restriction. Please contact your Rapiscan Systems sales representative for more information.

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Rapiscan Systems is AS9100C:2009 and ISO 14001:2004 + Cor. 1:2009 Certified
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EASY LOADING CONVEYOR AND LARGE TUNNEL FOR SCREENING OF ULD TYPE FREIGHT AND ISO STANDARD PALLETS.

ADVANCED CARGO
SCREENING

LARGE PALLET CARGO

EXPLOSIVES AND NARCOTICS
DETECTION ALERT

COST EFFECTIVE

STANDARD FEATURES

- Multi Energy Imaging (4 Color)
- View Previous/Next Bag
- Image Archive
- Configurable Image Processing Keys
- Baggage Counter
- Date / Time Display
- Search Indicator
- UPS (Uninterrupted Power Supply)
- Remote Workstation
- Flat Panel Monitor
- Multi Language Support

STANDARD IMAGE PROCESSING FUNCTIONS

- Crystal Clear™
- Black and White
- Organic / Inorganic Stripping
- Inverse Video
- High Penetration
- Pseudo Color
- Low Penetration
- Variable Edge Enhancement
- Variable Color Stripping
- Variable Gamma
- Variable Density
- Dynamic Continuous Zoom & Panning
- Fixed Zoom (64x)

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RAPISCAN 638XR



Tunnel Opening (width x height):
1,837 x 1,800 mm (72.3 x 70.9 in)



THE RAPISCAN 638XR IS AN ADVANCED X-RAY SYSTEM FOR SCREENING OF ULD TYPE, ISO STANDARD, LOWER DECK AND LARGE CARGO PALLET TYPE FREIGHT. IT HAS A LARGE TUNNEL OPENING OF 1,837 MM X 1,800 MM AND USES INNOVATIVE SCREENING TECHNOLOGY WITH EXPLOSIVES AND NARCOTICS DETECTION ALERT, TO GENERATE AN OUTSTANDING HIGH RESOLUTION VIEW OF THE OBJECT UNDER INSPECTION.

DETECTION OF EXPLOSIVES AND NARCOTICS ALERT

Target™ and NARCSan™ are designed to assist operators in the detection of a range of explosives and narcotics respectively in real time during the scanning process by marking a potential threat on the X-ray image. Rapiscan detection algorithms are based on regulatory material analysis techniques.

EASE OF USE PROVIDING HIGHEST THROUGHPUT

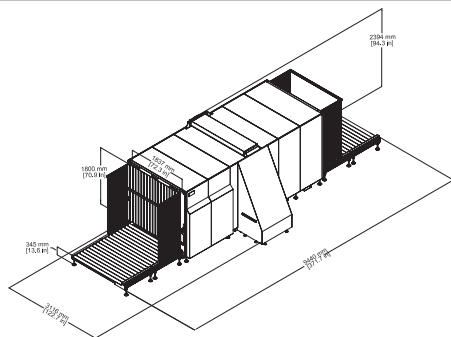
With over 13 image processing tools and detection alert algorithm functions, the feature rich software allows the operator to more easily and accurately search for contraband.

REGULATORY COMPLIANCE

Rapiscan 638XR performance is in full compliance with the European Union regulations [EC] No. 300/2008, [EU] No. 2015/1998 and Commissions Decision C [2015]8005 for aviation security.



RAPISCAN 638XR



PHYSICAL SPECIFICATIONS

Dimensions:	Length: 9,440 mm (371.7 in.) Width: 3,116 mm (122.7 in.) Height: 2,394 mm (94.3 in.)
Tunnel Size:	1,837 mm (72.3 in.) X 1,800 mm (70.9 in.)
Conveyor Speed:	0.20 m/sec (39.4 ft./min)
Conveyor Load (Max):	3,000 Kg (6,614 lbs) evenly distributed at 230 V 1,500 Kg (3,307 lbs) evenly distributed at 115 V
Conveyor Height:	345 mm (13.6 in.)
Weight (Approx.):	Net: 4,774 Kg (10,525 lbs)
System Power:	115/230 VAC $\pm 10\%$, 60/50Hz

X-RAY GENERATOR AND IMAGE PERFORMANCE¹

Steel Penetration:	50 mm typical, 45 mm standard
Wire Resolution:	40 AWG typical, 38 AWG standard
Cooling:	Sealed oil bath with forced air
Anode Voltage:	Operating at 200kV
Tube Current:	1.0 mA
Orientation:	Horizontal

OPERATING ENVIRONMENT

Storage Temperature:	-20°C to 50°C
Operating Temperature:	0°C to 40°C
Relative Humidity:	5 to 95% non-condensing

PROTECTION CLASS

System:	IP20
Operator Control Panel:	IP43 ²

REGULATORY

- TSA Air Cargo Screening Technology List (ACSTL) Qualified
- Transport Canada (TC) Air Cargo Qualified
- Regulation [EC] No. 300/2008 Compliant
- Regulation [EU] No. 2015/1998 Compliant
- EU Commissions Decision [EU] C(2015)8005 Compliant
- French Civil Aviation Authority (STAC) Certified

HEALTH & SAFETY

Rapiscan Systems' cabinet X-ray products comply with all applicable U.S. FDA and equivalent international regulatory agency requirements, contained in the cabinet X-ray radiation safety performance standard [21 CFR 1020.40] and the general performance standard [21 CFR Part 1010] as well as IEC standard 61010-2-091.

Rapiscan baggage and parcel inspection systems radiation emission leakages are well below the required regulatory limits with less than 1 μ Sv/hr at 10 cm from all surfaces of cabinet X-ray.

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OPTIONS AND ACCESSORIES

- Explosives Detection Alert (Target™)
- Narcotics Detection Alert (NARCSan™)
- Density Threshold Alert (DTA)
- Threat Image Projection (TIP)
- Threat Image Projection Network (TIPNet)
- Remote Image Archive Review (NETView™)
- Network X-ray management automation and Link system (NEXLink™)
- Multi-System Network Display Station (NDS)
- Automatic Image Archiving
- Enhanced Image Archiving
- Operator Training Program (OTP)
- Manual Scan
- Foot Mat
- Optical Operator Presence Sensor
- SmartCard Login
- Power Conditioner
- Roller Bed Accessories
- Universal Printer Support

¹ Stated performance as measured by Rapiscan Imaging Validation Test Kit.

² With optional replaceable cover.

With continual development of our products Rapiscan Systems reserves the right to amend specifications without notice. Product pictures are for general reference. Please note that due to US laws and regulations, not all Rapiscan products are available for sale in all countries without restriction. Please contact your Rapiscan Systems sales representative for more information.

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Fax: +65-6743-9915



Rapiscan Systems is AS9100C:2009 and ISO 14001:2004 + Cor. 1:2009 Certified

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9150128-6 032717

DUAL VIEW, LOW CONVEYOR X-RAY SYSTEM FOR SCREENING ULD TYPE FREIGHT AND ISO STANDARD PALLETS

EXPLOSIVES AND NARCOTICS DETECTION ALERT

MATRIXING, NETWORKING AND REMOTE VIEWING

MEETS ALL EUROPEAN COMMISSION AVIATION SCREENING REQUIREMENTS

STANDARD FEATURES

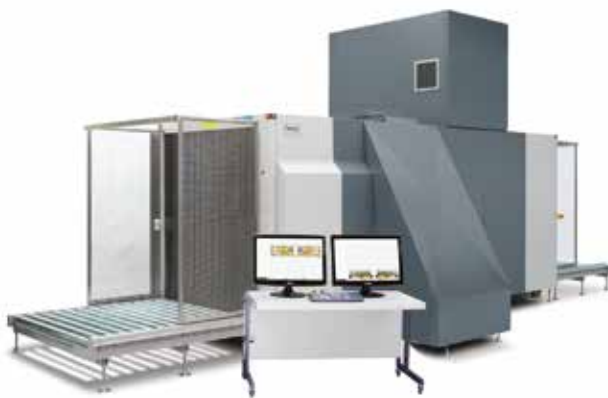
- Multi Energy Imaging (4 Color)
- View Previous/Next Bag
- Image Archive
- Configurable Image Processing Keys
- Baggage Counter
- Date / Time Display
- Search Indicator
- UPS (Uninterrupted Power Supply)
- Multi Language Support
- Flat Panel Monitor

STANDARD IMAGE PROCESSING FUNCTIONS

- Crystal Clear™
- Black and White
- Organic / Inorganic Stripping
- Inverse Video
- High Penetration
- Pseudo Color
- Low Penetration
- Variable Edge Enhancement
- Variable Color Stripping
- Variable Gamma
- Variable Density
- Dynamic Continuous Zoom & Panning
- Fixed Zoom (64x)

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RAPISCAN 638DV



Tunnel Opening (width x height):
1,837 x 1,800 mm (72.3 x 70.9 in)

THE RAPISCAN 638DV IS AN ADVANCED DUAL-VIEW X-RAY SYSTEM FOR SCREENING ULD, ISO STANDARD, LOWER DECK AND LARGE CARGO PALLET TYPE FREIGHT. WITH A LARGE AND SPACIOUS TUNNEL SIZE OF 1,837 MM X 1,800 MM AND EXPLOSIVES AND NARCOTICS DETECTION ALERT FEATURE, THE RAPISCAN 638DV IS WIDELY USED FOR AIR CARGO SCREENING AND CUSTOMS APPLICATIONS WHERE THROUGHPUT IS MOST IMPORTANT.

The Rapiscan 638DV has been approved and included on the U.S. TSA Air Cargo Screening Technology List (ACSTL) and the Transport Canada (TC) Air Cargo Security Program (ACS).

DETECTION OF EXPLOSIVES AND NARCOTICS ALERT

Target™ and NARCScan™ are designed to assist operators in the detection of a range of explosives and narcotics respectively in real time during the scanning process by marking a potential threat on the X-ray image. Rapiscan detection algorithms are based on regulatory material analysis techniques.

REGULATORY COMPLIANCE

Rapiscan 638DV performance is in full compliance with the European Union regulations (EC) No. 300/2008, (EU) No. 2015/1998 and Commissions Decision C (2015)8005 for aviation security.

DUAL VIEW ADVANCED TECHNOLOGY

As mandated by US and EU regulators, the 638DV utilizes a dual-view technology which produces two simultaneous images (vertical and horizontal views) of the scanned object. It provides a more complete image, thereby reducing the need for repositioning and rescanning and enabling rapid, accurate and comprehensive threat detection.

EASE OF USE PROVIDING HIGHEST THROUGHPUT

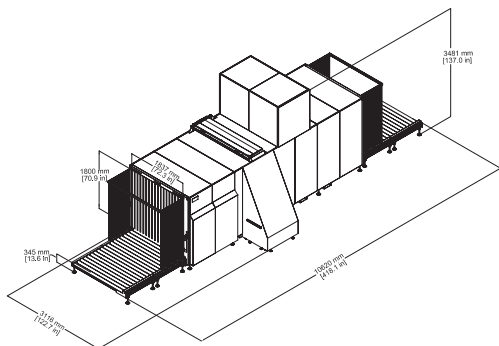
With over 13 image processing tools and detection alert algorithm functions, the feature rich software allows the operator to more easily and accurately search for contraband.

DARC ALARM

Rapiscan's proprietary detection algorithm that detects areas of high density while screening air cargo. Rapiscan collaborated closely with the U.K. Department for Transport to create DARC alarm and jointly executed the necessary test trials to verify the effectiveness of the DARC Alarm algorithm.



RAPISCAN 638DV



PHYSICAL SPECIFICATIONS

Dimensions:	Length: 10,620 mm (418.1 in.) Width: 3,116 mm (122.7 in.) Height: 3,481 mm (137.0 in.)
Tunnel Size:	1,837 mm (72.3 in.) X 1,800 mm (70.9 in.)
Conveyor Speed:	0.20 m/sec (39.4 ft./min)
Conveyor Load (Max):	3,000 Kg (6,614 lbs) evenly distributed at 230 V, 1,500 Kg (3,307 lbs) evenly distributed at 115 V
Conveyor Height:	345 mm (13.6 in.)
Weight (Approx.):	Net: 6,312 Kg (13,915 lbs)
System Power:	115/230 VAC ±10%, 60/50Hz

X-RAY GENERATOR AND IMAGE PERFORMANCE¹

Steel Penetration:	50 mm typical; 45 mm standard
Wire Resolution:	40 AWG typical; 38 AWG standard
Cooling:	Sealed oil bath with forced air
Anode Voltage:	Operating at 200KV
Tube Current:	1.0 mA
Orientation:	Vertically Downward and Horizontal

OPERATING ENVIRONMENT

Storage Temperature:	-20°C to 50°C
Operating Temperature:	0°C to 40°C
Relative Humidity:	5 to 95% non-condensing

PROTECTION CLASS

System:	IP20
Operator Control Panel:	IP43 ²

REGULATORY

- TSA Air Cargo Screening Technology List (ACSTL) Qualified
- Transport Canada (TC) Air Cargo Qualified
- Regulation (EC) No. 300/2008 Compliant
- Regulation (EU) No. 2015/1998 Compliant
- EU Commissions Decision (EU) C(2015)8005 Compliant
- French Civil Aviation Authority (STAC) Certified

HEALTH & SAFETY

Rapiscan Systems' cabinet X-ray products comply with all applicable U.S. FDA and equivalent international regulatory agency requirements, contained in the cabinet X-ray radiation safety performance standard [21 CFR 1020.40] and the general performance standard [21 CFR Part 1010] as well as IEC standard 61010-2-091.

Rapiscan baggage and parcel inspection systems radiation emission leakages are well below the required regulatory limits with less than 1 µSv/hr at 10 cm from all surfaces of cabinet X-ray.

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OPTIONS AND ACCESSORIES

- Explosives Detection Alert (Target™)
- Narcotics Detection Alert (NARCSan™)
- Density Threshold Alert (DTA)
- Threat Image Projection (TIP)
- Threat Image Projection Network (TIPNet)
- Remote Image Archive Review (NETView™)
- Network X-ray management automation and link system (NEXLink™)
- Multi System Network Display Station (NDS)
- Automatic Image Archiving
- Enhanced Image Archiving
- Operator Training Program (OTP)
- Manual Scan
- Foot Mat
- SmartCard Login
- Power Conditioner
- Roller Bed Accessories
- Universal Printer Support

¹ Stated performance as measured by Rapiscan Imaging Validation Test Kit.

Stated dual view performance as measured in primary view.

² With optional replaceable cover.

With continual development of our products Rapiscan Systems reserves the right to amend specifications without notice. Product pictures are for general reference. Please note that due to US laws and regulations, not all Rapiscan products are available for sale in all countries without restriction. Please contact your Rapiscan Systems sales representative for more information.

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Certified to
AS9100C



Rapiscan Systems is AS9100C:2009 and
ISO 14001:2004 + Cor. 1:2009 Certified

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HIGH PENETRATION,
DUAL-VIEW, LOW
CONVEYOR X-RAY
SYSTEM FOR
SCREENING ULD
TYPE FREIGHT AND
ISO STANDARD
PALLETS

EXPLOSIVES AND NARCOTICS
DETECTION

MATRIXING, NETWORKING AND
REMOTE VIEWING

AVAILABLE WITH 3000 KG AND
5000 KG CONVEYOR LOAD
CONFIGURATIONS

STANDARD FEATURES

- Multi Energy Imaging (4 Color)
- View Previous/Next Bag
- Image Archive
- Configurable Image Processing Keys
- Baggage Counter
- Date/ Time Display
- Search Indicator
- UPS (Uninterrupted Power Supply)
- Multi Language Support
- Dual High Resolution 24 inch Monitor

STANDARD IMAGE PROCESSING FUNCTIONS

- Crystal Clear™
- SINERGY™
- Black and White
- Organic / Inorganic Stripping
- Inverse Video
- High Penetration
- Low Penetration
- Pseudo Color
- Variable Edge Enhancement
- Variable Color Stripping
- Variable Gamma
- Variable Density
- Dynamic Continuous Zoom & Panning
- Fixed Zoom (64x)

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Tunnel Opening (width x height):
1,837 x 1,800 mm (72.3 x 70.9 in)

THE NEW RAPISCAN 638DV 320kV IS AN ADVANCED DUAL-VIEW X-RAY SYSTEM WITH A 1837 MM WIDE BY 1800 MM HIGH TUNNEL OPENING FOR SCREENING ULD TYPE, ISO STANDARD, AND LARGE CARGO PALLET TYPE FREIGHT.

The new 638DV 320kV features high penetration, dual-view technology and explosives and narcotics detection alert supporting secure inspection and higher throughput for air cargo screening and customs applications.

The 638DV 320kV is available in two configurations: 3000 Kg conveyor max load and 5000 Kg conveyor max load.

The 638DV 320kV system power requirement is a single phase 230VAC $\pm 10\%$, 60/50Hz. The 638DV 320kV reduces cost by requiring only a single phase power supply.

DETECTION OF EXPLOSIVES AND NARCOTICS ALERT

Target™ and NARCScan™ are designed to assist operators in the detection of a wide range of explosives and narcotics respectively in real time during the scanning process by marking a potential threat on the X-ray image. Rapiscan detection algorithms are based on regulatory material analysis techniques.

REGULATORY COMPLIANCE

Rapiscan 638DV 320kV performance is in full compliance with the European Union regulations (EC) No. 300/2008, (EU) No. 2015/1998 and Commissions Decision C (2015)8005 for aviation security.

DUAL VIEW ADVANCED TECHNOLOGY

As mandated by US and EU regulators, the 638DV 320kV utilizes a dual-view technology which produces two simultaneous images (vertical and horizontal views) of the scanned object. It provides a more complete image, thereby reducing the need for repositioning and rescanning and enabling rapid, accurate and comprehensive threat detection.

EASE OF USE PROVIDING HIGHEST THROUGHPUT

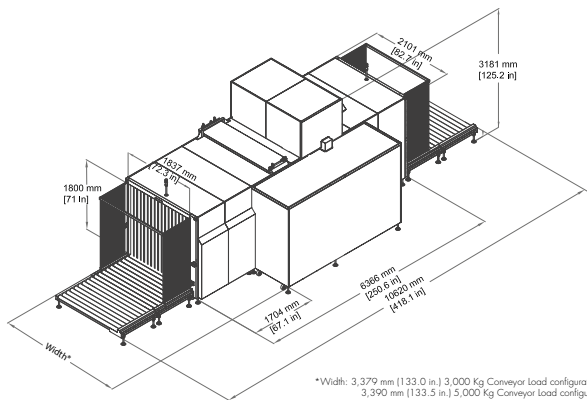
With over 14 image processing tools and detection alert algorithms, the feature-rich software allows the operator to more easily and accurately search for contraband.



RAPISCAN 638DV 320kV

Rapiscan®
systems

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*Width: 3,379 mm (133.0 in.) 3,000 Kg Conveyor Load configuration
3,390 mm (133.5 in.) 5,000 Kg Conveyor Load configuration

PHYSICAL SPECIFICATIONS

Dimensions: Length: 10,620 mm (418.1 in.)
Width: 3,379 mm (133.0 in.)
3,000 Kg Conveyor Load Configuration
3,390 mm (133.5 in.)
5,000 Kg Conveyor Load Configuration
Height: 3,181 mm (125.2 in.)
1,837 mm (72.3 in.) X
1,800 mm (71 in.)

Tunnel Size: 1,800 mm (71 in.) X
1,800 mm (71 in.)

Conveyor Speed: 0.20 m/sec (39.4 ft./min)

Conveyor Load (Max): 3,000 kg (6,614 lbs),
evenly distributed
5,000 kg (11,023 lbs),
evenly distributed

Conveyor Height: 345 mm (13.6 in.)

Weight (Approx.): 8,154 Kg (17,976 lbs)
3,000 Kg Conveyor Load Configuration
11,731 Kg (25,862 lbs)
5,000 Kg Conveyor Load Configuration

System Power: 230 VAC $\pm 10\%$, 60/50Hz

X-RAY GENERATOR

Voltage: 320kV

Orientation: Vertically Downward and
Horizontal

Generator Cooling: Sealed oil bath with forced air

IMAGE QUALITY PERFORMANCE¹

Steel Penetration: 70 mm standard

Wire Resolution: 34 AWG standard

OPERATING ENVIRONMENT

Storage Temp: -20°C to 50°C

Operating Temp: 0°C to 40°C

Relative Humidity: 5 to 95% non-condensing

PROTECTION CLASS

System: IP20

Operator Control Panel: IP43²

REGULATORY

- TSA Air Cargo Screening Technology List (ACSTL) Qualified
- Regulation (EC) No. 300/2008 Compliant
- Regulation (EU) No. 2015/1998 Compliant
- EU Commissions Decision (EU) C(2015)8005 Compliant

HEALTH & SAFETY

Rapiscan Systems' cabinet X-ray products comply with all applicable U.S. FDA and equivalent international regulatory agency requirements, contained in the cabinet X-ray radiation safety performance standard [21 CFR 1020.40] and the general performance standard [21 CFR Part 1010] as well as IEC standard 61010-2-091.

Rapiscan baggage and parcel inspection systems radiation emission leakages are well below the required regulatory limits with less than 1 μ Sv/hr at 10 cm from all surfaces of cabinet X-ray.

ADDITIONAL FEATURES AND ACCESSORIES

- Explosive Detection Alert (Target™)
- Narcotics Detection Alert (NARCSan™)
- Density Threshold Alert (DTA)
- Threat Image Projection (TIP)
- Threat Image Projection Network (TIPNet)
- Remote Image Archive Review (NETView™)
- Multi-System Network Display Station (NDS)
- Automatic Image Archiving
- Enhanced Image Archiving
- Operator Training Program (OTP)
- Manual Scan
- Foot Mat
- Optical Operator Presence Sensor
- SmartCard Login
- Roller Bed Accessories

¹ Stated performance as measured by

Rapiscan Imaging Validation Test Kit

² With optional replaceable cover.

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Certified to
AS9100C



Product Range

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ISO 14001:2004 + Cor. 1:2009 Certified

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www.rapiscansystems.com

COMPUTER BASED OPERATOR TRAINING, AN EFFECTIVE SOLUTION FOR TRAINING ALL LEVELS

REAL-WORLD THREAT
REPRESENTATION

ONE LICENSE FOR MULTIPLE
USERS

COST EFFECTIVE

RAPISCAN 600 CBT



Lab Exercise



X-ray System Operating Training



Exam Review



Exam Review

THE RAPISCAN 600 COMPUTER BASED TRAINING (CBT) PROGRAM IS PC BASED SOFTWARE USED FOR EFFECTIVELY TRAINING PERSONNEL ON THE OPERATION OF THE RAPISCAN 600 SERIES BAGGAGE AND PARCEL X RAY SCREENING SYSTEMS.

This interactive, self-paced program contains a tutorial course and an X-ray system simulator. The representation of real-world threats is used to assist the operator in understanding the importance of careful examination of every bag and parcel. Both programs use our Adaptive Difficulty Engine (ADE) to assess an operator's proficiency in core skill areas and then tailor exams to match aptitude levels.

FEATURES

- Real-world threat scenarios
- Self-paced courses
- Evaluates and adapts to challenge operator's skill level

BENEFITS

- One license per PC, multiple users
- Single database on a network server
- Cost effective
- Can be employed anytime, anywhere

TUTORIAL COURSE

The tutorial course readies operators to correctly operate the basic features of the Rapiscan 600 series X-ray systems.

- Summary at the end of each tutorial and completed course
- Practice sessions within tutorial
- Glossary of definitions on each page
- Icon to identify specific objects being analyzed
- Ability to send messages to instructor at any stage during the course

SIMULATION COURSE

The simulation course is an interactive training program that provides an opportunity for operators to apply their X-ray interpretation skills by means of an on-screen simulation of the system.

- X-ray interpretation practice
- 3-levels of increasing difficulty
- Review session
- X-ray interpretation final exam

RAPISCAN 600 CBT



Reports

TUTORIAL COURSE TOPICS

X-ray Basics – Full instruction of basic X-ray principles and safety precautions to be observed while operating the system.

System Operation – Complete training on the core components and indicator lights that comprise the system.

Image Controls – Broad instructions on image processing and zoom control features for X-ray image interpretation to aid operator with x-ray image interpretation.

Advanced Features – Comprehensive guidelines and instructions on advanced image processing, zoom features, image archiving and Threat Image Projection (TIP) image response.

SIMULATION COURSE USAGE

X-ray Interpretation Training – The extensive X-ray image library contains both fictional threat and benign items that appear randomly. The fictional threat items include guns, knives, explosives, sharp objects, and Improvised Explosive Devices (IED). Operators develop proficiency by advancing through three levels of difficulty based on bag complexity and orientation of the threat.

Adaptive Training - As operators work through practice sessions, a sophisticated algorithm monitors and tracks executed actions and decisions for each image. Upon completion of a practice session, the algorithm determines whether the operator correctly responded to the exposed X-ray images. Based on that performance, subsequent practice sessions are tailored to meet the specific training needs of the operator.

Ongoing X-ray Interpretation Practice – The extensive X-ray image library and adaptive algorithm helps operators develop knowledge of a wide variety of look-alike threats under X-ray. Trainers can tailor sessions to focus on specific threats of concern for their organization to continuously ensure the detection skills of operators.

The Rapiscan 600 CBT provides a limited set of threat objects AND CONCEALMENT TECHNIQUES, INTENDED TO assist OPERATORS in learning how to operate the system, but not FOR BECOMING FULLY proficient IN THREAT OBJECT OR CONCEALMENT TECHNIQUE DETECTION.

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Rapiscan[®] systems

An OSI Systems Company

MINIMUM REQUIREMENTS

- Intel Pentium 1.6GHz processor
- 1 GB RAM
- 17" monitor
- Keyboard
- Mouse
- CD Drive
- Windows XP Professional

AVAILABLE PROGRAMS

Mailroom Applications

- Tutorial Course only
- Tutorial Course & Simulator
- Checkpoint Applications
- Tutorial Course only
- Tutorial Course & Simulator

LANGUAGES AVAILABLE

- English
- Arabic

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RAPISCAN 600 SERIES DV CBT



Lab Exercise



X-ray System Operating Training



Exam Review



Exam Review

THE RAPISCAN 600 SERIES DUAL VIEW COMPUTER BASED TRAINING (CBT) PROGRAM IS PC BASED SOFTWARE USED FOR EFFECTIVELY TRAINING PERSONNEL ON THE OPERATION OF THE RAPISCAN 600 SERIES DUAL VIEW BAGGAGE AND PARCEL X RAY SCREENING SYSTEMS.

This interactive, self-paced program contains a tutorial course and an X-ray system simulator. The 600 series dual view system displays a vertical view of the contents as well as a horizontal view, eliminating the need to rescans items. The representation of real-world threats is used to assist the operator in understanding the importance of careful examination of every bag and parcel. Both programs use our Adaptive Difficulty Engine (ADE) to assess an operator's proficiency in core skill areas and then tailor exams to match aptitude levels.

FEATURES

- Real-world threat scenarios
- Self-paced courses
- Evaluates and adapts to challenge operator's skill level

BENEFITS

- One license per PC, multiple users
- Single database on a network server
- Cost effective
- Can be employed anytime, anywhere

TUTORIAL COURSE

The tutorial course readies operators to correctly operate the basic features of the Rapiscan 600 series dual view X-ray systems.

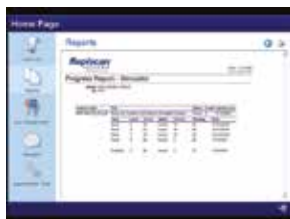
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RAPISCAN 600 SERIES DV CBT



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- Mouse
- CD Drive
- Windows XP Professional

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- Tutorial Course only
- Tutorial Course & Simulator

LANGUAGES AVAILABLE

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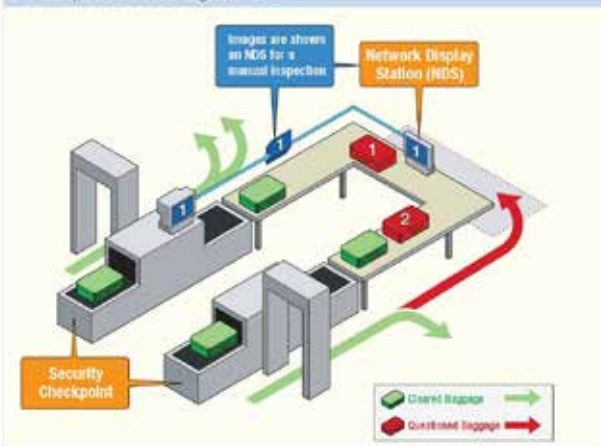
MULTI-SYSTEM ALARM RESOLUTION NETWORK DISPLAY STATION

EFFICIENT SCREENING
PROCESS

COST EFFECTIVE
MANAGEMENT

NETWORK DISPLAY STATION

An example of 2x1 Multi-System NDS



RAPISCAN MULTI-SYSTEMS NETWORK DISPLAY STATION (NDS™) ENABLES SECURITY PROFESSIONALS TO EFFICIENTLY MANAGE THE CONTINUOUS FLOW OF BAGGAGE AND PARCELS FOR INSPECTION WHILE ENSURING A THOROUGH THREAT DETECTION PROCESS AT THE SCREENING SITE.

Comprehensive screening of baggage and parcels in aviation checkpoint, air cargo, customs and other critical infrastructure sites is a requisite in today's era of security mandates and terrorism risks. At the same time, the management and operations personnel in these environments are constantly struggling to have the most efficient and cost-effective processes in place to minimize negative consequence of the required security screening activities. For example in airports checkpoints, primary screening lanes with a secondary stations for manual resolution of potential threats can translate to long lines, slower throughput, increased passenger irritation, and lower screening operator efficiency when checkpoint flow is slowed down or stopped due to a potential threat identified in a scanned object that now needs to be put through secondary inspection. As well, relying on verbal communication alone between primary and secondary checkpoint staff can turn into inefficiencies and time-wasted in the re-inspection activity and means higher labor and staffing cost requirements.

Rapiscan Systems' Multi-System Network Display Station (NDS) enables security professionals to more efficiently manage the primary and secondary inspection process, improving the continuous flow of baggage and parcels, while still ensuring a thorough threat detection procedure at the screening site.

When the Multi-System NDS is added to the screening lane manual search station, the X-ray scanner transmits the X-ray image of a bag's or parcel's contents, with the location of the suspicious objects marked and annotated by the local operator, to the secondary NDS display. The manual search operator can then reconcile the scanned baggage or parcel X-ray image with the contents of the actual bag or parcel. By providing the manual search operator with the marked and annotated image to quickly recognize the search area in a suspect baggage or parcel, the NDS simplifies and improves the throughput of screening procedures and improves the communication between personnel responsible for different yet related tasks. With the NDS, security operations are able to improve the passenger and customer experience, make interoperability between security personnel more convenient and effective, and facilitate management of labor and staffing expenditures.

NETWORK DISPLAY STATION

Rapiscan®
systems

An OSI Systems Company

FEATURES

- Multi-System Support and Compatibility: Each NDS can manage images from multiple scanners and can be installed with any combination of Rapiscan baggage and parcel inspection 600 series systems.
- Image Queuing: By implementing the NDS, incoming baggage or parcels can continue to be scanned without any delay or wait time because transmitted images of the objects requiring a secondary search are automatically stored and queued at the NDS station. The images are stored and presented on the NDS workstation on a first in, first out basis. Once a bag is marked as clear or suspect by the secondary operator, the next image will automatically appear.
- Image Archiving: The NDS allows the manual search operator to choose whether to archive images for future retrieval and review.
- User interface and functionality is consistent across the X-ray system and the NDS. The X-ray images are identical on both display screens. Using an identical operator control panel (OCP), the same full range of image processing functions (e.g. crystal clear, inorganic/organic stripping, black & white, etc.) are available on the NDS.

BENEFITS

- Increased screening process throughput by eliminating the need to stop conveyor flow when bags or parcels are identified for manual inspection
- Greater efficiency by allowing next bag or parcel to be screened, without causing delay or wait time in the screening queue
- Lower cost of operation by reducing staff time
- Improved security confidence by providing the X-ray image to the manual search operator at the NDS (Screeners redundancy, training and supervisory oversight)

Availability

NETView™ is available as an option on the Rapiscan conventional baggage and parcel inspection X-ray systems.

For additional information on other Advanced Technology Options (ATO), please consult your local distributor or sales representative.

	Threat Image Projection (TIP)
	Threat Image Projection Network (TIPNet™)
	Explosives Detection Alert (Target™)
	Detection of LAGs Explosives and precursors (aLEXis™)
	Narcotics Detection Alert (NARCSan™)
	Density Threat Alert (DTA)
	Operator Training Program (OTP)
✓	Multi-System Network Display Station (NDS)
	Remote Image Archive Review (NETView™)
	DARC Alarm
	NEXlink™

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IMPROVES THE OPERATOR'S ABILITY TO QUICKLY DETECT ILLEGAL AND CONCEALED NARCOTICS

DETECTION OF NARCOTICS
ALERT

REAL TIME DETECTION ALERT

INCREASES THROUGHPUT



RAPISCAN SYSTEMS' NARCSCAN™ SOFTWARE IMPROVES THE OPERATOR'S ABILITY TO QUICKLY DETECT ILLEGAL AND CONCEALED NARCOTICS - THROUGH NARCOTICS DETECTION ALERT ON ALL ITS BAGGAGE AND PARCEL INSPECTION SYSTEMS.

The ability to detect illegal and controlled narcotics has become increasingly important to many countries' national security. Narcotics trafficking ruins lives, drains billions of dollars from the economy, and spawns violence that threatens communities. NARCScan, Rapiscan Systems' narcotics detection alert technology, allows baggage and parcel inspection system operators to more quickly and easily identify potential illegal material inside scanned baggage or parcels.

By analyzing the targeted object for anomalies that might indicate concealed or actual narcotics, and displaying these as visual alerts in the operator's screen image, the NARCScan software accelerates the scanning and narcotics discovery process at any screening station.

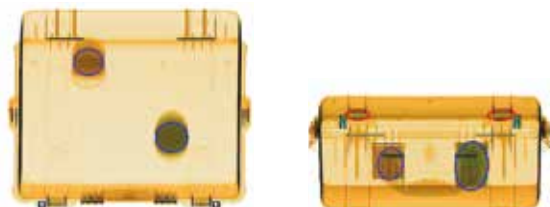
FEATURES

- Non-intrusive detection of narcotics alert inside the bag or parcels
- Real time detection without the need to stop the conveyor and lose time
- Does not require operator image processing or manipulation
- Works simultaneously with other Rapiscan BPI OS600 functions, including Target™ for detection of explosives alert, Threat Image Projection (TIP) and Density Threat Alert (DTA)
- Can be used in automatic and interactive modes
- Available on all Rapiscan Systems' 600 series X-ray systems

BENEFITS

- Improves security by assisting operators in identifying narcotics that may be concealed or otherwise not easily visible
- Increases throughput by accelerating the screening procedure

NARCSCAN™



Potential narcotics (Blue) are highlighted on the X-ray images.

THE PRINCIPLE

NARCSCAN™ uses a proprietary detection algorithm that performs real-time material resolution by analyzing data such as atomic number, mass, size and other properties of the scanned materials. It then highlights the suspect material on the operator screen. The technology can non-intrusively and alerts the operator of narcotics detection inside the bag or parcel even if the suspect items are obscured or overlap with others.

Use of this detection alert algorithm provides high detection and excellent false alarm discrimination as it incorporates a proprietary approach in detection algorithm to the information provided by the X-ray images. NARCSCAN's detection algorithm is based on the same breakthrough, leading edge technology as in Rapiscan Systems' renowned global regulatory-approved high speed, high resolution explosive detection system (EDS), RTT™ for aviation hold baggage screening,

MODES AND FEATURES

NARCSCAN™ can be operated in both automatic and interactive modes. In automatic mode, as each item is scanned, NARCSCAN analyzes the contents without the need to stop or slow down the X-ray system conveyor. In the interactive mode, NARCSCAN supplements the automatic NARCSCAN mode by providing the X-ray system operator with the ability to apply the algorithm manually to suspect objects as needed. This is achieved by selecting an area of the scanned object using the mouse pad available on the standard operator control panel.

NARCSCAN is available as an option on all Rapiscan Systems' 600 series conventional baggage and parcel inspection X-ray systems including single and dual view scanners. In dual view systems, the detection alert feature highlights the suspicious material in both horizontal and perpendicular views. It is able to function simultaneously with other useful features on the 600 series, like Target™ for detection alert of explosives, Threat Image Projection (TIP) and Density Threat Alert (DTA).

For additional information on other Advanced Technology Options (ATO), please consult your local distributor or sales representative.

	Threat Image Projection (TIP)
	Threat Image Projection Network (TIPNet)
	Explosives Detection Alert (Target™)
	Detection of IAGs Explosives and precursors (aLEXis™)
✓	Narcotics Detection Alert (NARCSCAN™)
	Density Threat Alert (DTA)
	Operator Training Program (OTP)
	Multi-System Network Display Station (NDS)
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UNIFIED MANAGEMENT PLATFORM FOR STORING, RETRIEVING, AND REVIEWING THE X-RAY IMAGES

REMOTE VIEWING OF
ARCHIVED IMAGES FROM
MULTIPLE SCANNERS

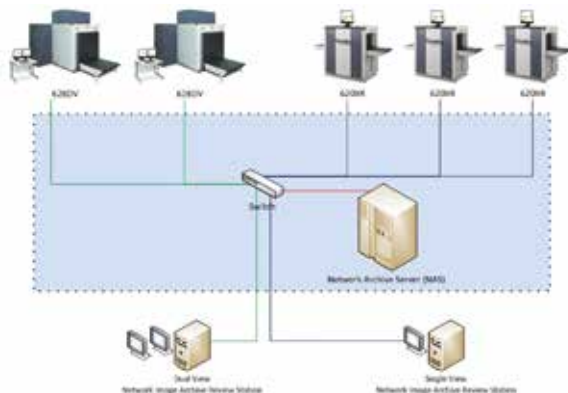
EASY SEARCH AND IMAGE
RETRIEVAL

THE PRINCIPLE

With NETView, all images are copied onto the NAS server from all scanners connected to the same network in real time. The NETView configuration then allows an authorized user at the NETView station to retrieve and centrally review three types of archived images: Manual Archived Images, Automatic Archived Images and Missed Archived Threat Image Projection (TIP) Images. Upon successful login to Rapiscan BPI OS600 software at the NETView station, a dialog filter window is presented. It allows the user to select the desired archived images for viewing, based on a variety of criteria, such as operator ID, site, date, specific scanner model or serial number.



RAPISCAN SYSTEMS' STATE-OF-THE-ART NETWORK IMAGE ARCHIVE REVIEW (NETVIEW™) SOLUTION PROVIDES A UNIFIED MANAGEMENT PLATFORM FOR STORING, RETRIEVING, AND REVIEWING THE X-RAY IMAGES FROM MULTIPLE SCANNERS IN A CENTRALIZED LOCATION.



Designed to integrate multiple Rapiscan baggage and parcel inspection screening (BPI) systems, Network image Archive Review (NETView) allows the X-ray images generated by the many networked scanners, to be archived in a single Network Archive Storage (NAS) server. Allowing for the collective archiving of images from a variety of Rapiscan BPI systems, including single and dual view scanners with various tunnel sizes, NETView allows image retrieval, review, processing, manipulation as well as image printing and export from a single operator NETView station.

The NETView station includes the same familiar and matching tools, software and user interface as Rapiscan's standard tools available on a standalone scanner for image processing, manipulation and review, ensuring consistency and no need for additional knowledge acquisition by users.

RAPISCAN NETVIEW™



Dialog Filter Window on
NETView Station

FEATURES

- Configurable time image retention time based on first in first out rule to ensure storage availability at all times
- Configurable and scalable storage media size depending on archive frequency, retention period and number of networked scanners
- Identical Graphical User Interface (GUI) and Operator Control
- Panel (OCP) allows image processing, printing and export from the
- NETView station seamless
- Immediate image synchronization with the scanners upon inadvertent
- NAS shutdown or network interruption

BENEFITS

- Reduces complexity in shared infrastructure through a single, unified storage management approach
- Provides supervisory oversight in a complex screening site
- Facilitates an easy search and image retrieval through centralization of images from all the scanners in one site
- Allows for an historical screening perspective through long term preservation and retention of images

Availability

NETView™ is available as an option on the Rapiscan conventional baggage and parcel inspection X-ray systems.

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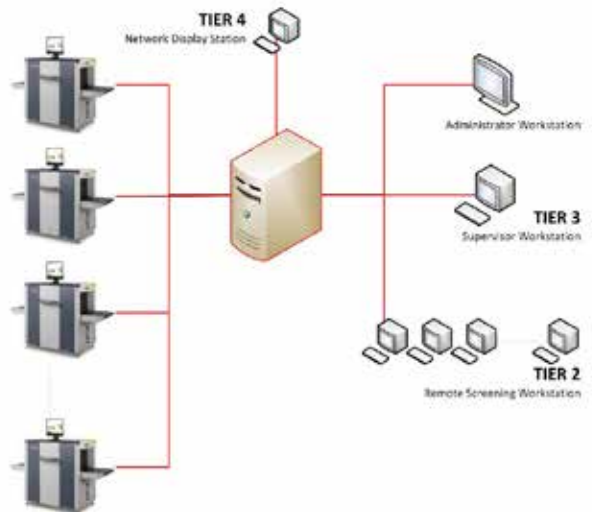
ADVANCED NETWORK X-RAY MANAGEMENT, AUTOMATION AND LINK SYSTEM

SCALABLE

CONFIGURABLE

FLEXIBLE

NEXLINK™



RAPISCAN SYSTEMS NETWORK X-RAY MANAGEMENT AND AUTOMATION SYSTEM (NEXLINK™) IS AN INNOVATIVE, INTEGRATED HARDWARE AND SOFTWARE PLATFORM THAT ALLOWS A SECURITY SITE TO NETWORK ONE OR MORE BAGGAGE AND PARCEL INSPECTION (BPI) 600 SERIES ADVANCED X-RAY SCREENING SYSTEMS WITH A SERIES OF REMOTE WORKSTATIONS AT VARIOUS SCREENING LEVELS.

Designed for the integration of a combination of both single and dual view X-ray scanners with various tunnel sizes, NEXlink™ provides a multi-layered management system that is capable of managing and transmitting data and images from all networked scanners to co-responding Remote Screening Workstations used for review and decision on images.

Key benefits include a reduction in required screening staff and an improvement in throughput for aviation, air cargo, customs and other security screening applications.

The fully flexible NEXlink™ system allows configuration to each individual needs for each customer application and design.

FEATURES

- Manage TIP Data across the complete network
- Centralized monitoring, reporting and configuration management of multiple TIP software installations
- Software-based feature compatible with all Rapiscan 6xx series X-ray systems
- Compliant with the ECAC TIP 2 requirements

BENEFITS

- Increase efficiency by simultaneous management of TIP libraries and configurations of multiple systems
- Easy maintenance of users and TIP features and configurations
- Instantaneous access to TIP data – reports, graphs and trends
- Download tip data from all x-ray machines from one location.

Availability

NEXlink™ is available as an option on the Rapiscan conventional baggage and parcel inspection X-ray systems.

For additional information on other Advanced Technology Options (ATO), please consult your local distributor or sales representative.	
	Threat Image Projection (TIP)
	Threat Image Projection Network (TIPNet™)
	Explosives Detection Alert (Target™)
	Detection of LAGs Explosives and precursors (aLEXis™)
	Narcotics Detection Alert (NARCScan™)
	Density Threat Alert (DTA)
	Operator Training Program (OTP)
	Multi-System Network Display Station (NDS)
	Remote Image Archive Review (NETView™)
	DARC Alarm
✓	NEXlink™

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sales@rapiscansystems.com
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THREAT IMAGE PROJECTION

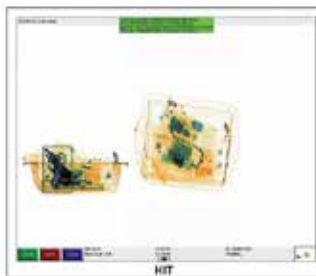
E.U. AVIATION SECURITY REGULATIONS COMPLIANT

TRAIN SECURITY PERSONNEL
FASTER

CREATE INFORMATIVE
MANAGEMENT REPORTS

MEASURE CHECKPOINT
PERFORMANCE

CONTINUALLY IMPROVE
SECURITY OPERATIONS



THREAT IMAGE PROJECTION (TIP) ALLOWS SECURITY SUPERVISORS AND MANAGERS TO MEASURE OPERATOR PERFORMANCE WHILE ADDRESSING THE TRAINING NEEDS OF PERSONNEL FOR ALL RAPISCAN SYSTEMS' CONVENTIONAL X-RAY SYSTEMS. IT IS A RELIABLE METHOD FOR CONTINUALLY IMPROVING THE SKILL LEVEL OF SECURITY PERSONNEL AND IS THE PREFERRED TRAINING METHOD USED BY REGULATORY AGENCIES WORLDWIDE.

TIP is designed to advance screener proficiency by providing more exposure to threats on a regular basis, and to track screener performance. At configurable frequencies defined by a supervisor, TIP inserts digital fictional threat images (FTI) such as guns, knives and bombs as if the threat object were actually packed inside the passenger's bag into the regular flow of bags displayed on the X-ray system monitor. TIP improves the alertness of personnel at security points while focusing their attention on key tasks. Based on the screener's response there are several outcomes that are the basis for all TIP performance scoring, feedback, and data reports.

REPORTS

Supervisors can improve the effectiveness of the operators by creating management reports and taking targeted corrective actions to continually enhance performance. TIP management reports display the actual detection rate, HIT rate, MISS rate and false alarm rate (NON-TIP EVENT) for each security checkpoint. Reports can be created for individual team members and various stations so that training opportunities are quickly identified.

TIP functionality provides the option for users to receive visual feedback through an individualized summary report and response decision times. The screener also has the option to view a session report after logging off the system.

The display includes a mean performance report for current session as well as cumulative data for the current month. A Screener Comparison function compares screeners using criteria such as bag count, number of HITs, MISSs and Non-TIP Events.

TIP CONFIGURATION

The supervisor or manager may alter all settings associated with TIP configurations including:

TIP Frequency: Defines the frequency at which a TIP image is inserted in the baggage displayed on screen.

TIP Timing: Determines the parameters for the Initial Decision Time (IDT), Secondary Decision Time (SDT).

TIP Category: Allows for modification of FTI categories and TIP projection percentages.

TIP Library: Allows for addition and modification of TIP libraries.

NOTE: The Rapiscan Threat Image Projection (TIP) option provides a set of fictional threat items, intended to assist operators in improving their skills for system operation. TIP is a training and monitoring technology and is not intended for use as a sole method of threat object or concealment detection training.

All of the information contained in this informational sheet is subject to the disclaimers, limitations of liability and other terms contained in the Software License Agreement associated with this Product. Please carefully read the Software License Agreement before using the product.

THREAT IMAGE PROJECTION

Availability

TIP is available as an option on the Rapiscan conventional baggage and parcel inspection X-ray systems.

The World's Leader for Efficient, Effective Security

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For additional information on other Advanced Technology Options (ATO), please consult your local distributor or sales representative.	
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ADVANCED NETWORKING SOLUTION

ADVANCED TIP MANAGEMENT
AND ANALYSIS

MANAGE TIP DATA ACROSS
NETWORK



TIPNET™ IS AN ADVANCED NETWORKING CAPABILITY AVAILABLE FOR THE RAPISCAN 600 SERIES X-RAY SCREENING SYSTEMS RUNNING TIP. TIPNET™ HELPS ENSURE THE EFFECTIVE USE OF THESE SYSTEMS BY PROVIDING AN EASY-TO-LEARN, EASY-TO-OPERATE MULTI-SYSTEM MONITORING, REPORTING AND CONFIGURATION MANAGEMENT TOOL.

Rapiscan TIPNet™ allows supervisors to run Threat Image Projection (TIP) on multiple X-ray systems from one central network computer.

On a standalone X-ray system, TIP software logs individual operator results and will provide various supervisor generated reports. However, when multiple systems are networked together, the TIP management software provides comprehensive reporting tool across the complete network of systems. It provides feature-rich supervisory controls and reporting functions to continually improve the performance of large checkpoint screening installations. TIP settings are received from the server in real time allowing changes globally through the network. In addition, the data generated by each X-ray system is uploaded to the central database in real time. Among many advanced features of TIPNet™, a built-in redundancy function allows all networked X-ray systems to continue the TIP operation in a stand alone mode, if the network connection is broken. Once the connection has been re-established the locally recorded TIP data will be automatically be updated to the server.

Threat Image Projection Management Analysis Software (TMAPS™)

Rapiscan Systems' TIP Management Analysis Software (TMAPS) is a complete TIP data management tool providing a simple, robust and functional reporting interface. It operates in a TIPNet™ environment with user friendly controls and in-depth analysis of screener's TIP data. TMAPS offers a range of overviews from easy to access historical TIP data to reviewing missed images.

- High Level Overview,
- Individual Screener Performance Overview,
- Screener Log Overview,
- TIP Data Comparison Overview,
- Screener Competency Overview,
- Threat Detection by Category Overview,
- TIP Training and Feedback Overview and
- TIPNet Overview

Consistent search criteria and clearly defined overview buttons enables easy navigation.

Rapiscan Systems provides all the necessary software and engineering support for the full implementation of TIPNet™ to ensure the smooth implementation of the network systems.

FEATURES

- Manage TIP Data across the complete network
- Centralized monitoring, reporting and configuration management of multiple TIP software installations
- Software-based feature compatible with all Rapiscan 6xx series X-ray systems
- Compliant with the ECAC TIP 2 requirements

BENEFITS

- Increase efficiency by simultaneous management of TIP libraries and configurations of multiple systems
- Easy maintenance of users and TIP features and configurations
- Instantaneous access to TIP data – reports, graphs and trends
- Download tip data from all x-ray machines from one location.

Availability

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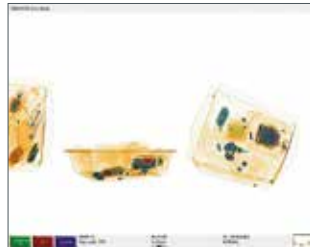
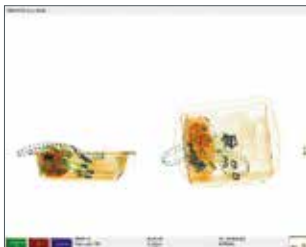
TARGET™ HIGHLIGHTS A POTENTIAL THREAT ON THE X-RAY IMAGE.

ADVANCED OPERATOR ASSIST
THREAT DETECTION

MEETS INTERNATIONAL
REQUIREMENTS

BAGGAGE AND PARCEL
INSPECTION SYSTEMS

TARGET™



RAPISCAN SYSTEMS' TARGET™ FUNCTION HIGHLIGHTS A POTENTIAL THREAT ON THE X-RAY IMAGE. USED AS AN AID TO ACCELERATE THE SCANNING PROCESS TARGET PROVIDES AN IDENTIFICATION OF POTENTIAL EXPLOSIVE THREAT MATERIAL.

Target™ algorithms have been developed to detect a wide range of explosives and have been designed to meet stringent international airport security regulations including U.S. Department of Homeland Security and Transportation Security Administration.

THE PRINCIPLE

Target™ uses a proprietary detection algorithm that performs material analysis of a scanned item. By gathering data such as atomic number, mass, size and other properties of the scanned materials and comparing this information to the known characteristics of threat items such as explosives Target is able to identify potential threats.

Rapiscan System's Target™ provides high detection and excellent false alarm discrimination as it incorporates a multi-stage approach to all the information provided by the X-ray images. The detection technology has the ability to find hard-to-detect explosive configurations.

MODES and FEATURES

Target™ can also be operated in manual or interactive mode. As each item is scanned, Target™ performs the analysis on the gathered data without the need to stop or slowing down the X-ray system conveyor. Interactive Target™ supplements Target™ by providing the X-ray system operator the ability to apply Target™ manually to the suspected objects as needed.

Target™ is available and compatible with all Rapiscan Systems' 600 conventional X-ray systems. It can also function simultaneously with other useful features like Threat Image Projection (TIP) and Density Threat Alert (DTA).

FEATURES

- Operator assist detection of potential explosive material.
- Real time detection without the need to stop the conveyor.
- Simultaneous functionality with Threat Image Projection (TIP) and Density Threat Alert (DTA).
- Available on all Rapiscan Systems' 600 series X-ray systems.

BENEFITS

- Improved security by assisting operator to identify threats that may be otherwise covered or not easily visible.
- Increased throughput by accelerating the checking procedure.
- Increase and shift operator focus on passenger behavior from continuous monitoring the screen.

TARGET™

Availability

TARGET™ is available as an option on the Rapiscan conventional baggage and parcel inspection X-ray systems.

For additional information on other Advanced Technology Options (ATO), please consult your local distributor or sales representative.

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	Threat Image Projection Network (TIPNet)
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040816

DETECTS AREAS
OF HIGH
DENSITY WHILE
SCREENING
AIR CARGO.

DETECTS AREAS OF HIGH
DENSITY

BAGGAGE AND PARCEL
INSPECTION AIR CARGO
SCREENING SYSTEMS



DARC Alarm identified in air cargo.



CrystalClear™ applied to DARC Alarm image to uncover bulk explosives concealed behind the dense object.

RAPISCAN'S PROPRIETARY ALGORITHM, DENSE AUTOMATIC REJECT CAPABILITY (DARC) DETECTS AREAS OF HIGH DENSITY WHILE SCREENING AIR CARGO.

The ability to detect areas of high density and highlight them with air cargo X-ray screening systems, as developed by the UK's Department for Transport is now mandatory throughout Europe. X-ray screening systems with Rapiscan's DARC Alarm allows customers to remain compliant with the latest regulations.

With a DARC Alarm equipped air cargo screening system, where there is an area of high density in the screened object, this area will "alarm" and a yellow ellipse will present around the object or area of high density. The operator then has the ability to use further X-ray screening tools to view the highlighted area, all without stopping the conveyor.

FEATURES

- Alerts detection of highly dense objects
- Highly visible on-screen highlighting of dense areas
- Real time detection without the need to stop the conveyor
- Simultaneous functionality with TIP, Target™ and NARCSan™
- Available on Rapiscan Systems' 627DV, 632DV and 638DV.

BENEFITS

- Assists operators in identifying objects that may otherwise be missed
- Increases visibility to the operator of highly dense areas
- Improved security by assisting the operator to identify explosives and other contraband that may be otherwise covered or not easily visible
- Increased throughput by accelerating the screening procedure

DARC ALARM

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DARC Alarm Principle

DARC Alarm is a feature enhancement for the detection of opaque threats. Generally, opaque threats represent dense areas in the energy (high/low) graph. The detection criteria are made up of the energy threshold and its size, which can be adjusted in the operation. To better manage opaque threat detection, DARC Alarm feature is implemented, which provides the user with ways to control how opaque threats are detected and displayed. The thresholds for DARC Alarm can be configured by an administrator or supervisor to ensure compliance in the specific region where the system is operated.

Availability

DARC Alarm is available as an option on the Rapiscan conventional baggage and parcel inspection X-ray systems 627DV, 632DV and 638DV dual view scanners. In dual view systems, the DARC Alarm feature is able to highlight the area in both horizontal and perpendicular views.

For additional information on other Advanced Technology Options (ATO), please consult your local distributor or sales representative.

	Threat Image Projection (TIP)
	Threat Image Projection Network (TIPNet)
	Explosives Detection Alert (Target™)
	Detection of LAGs Explosives and precursors (aLEXis™)
	Narcotics Detection Alert (NARCScan™)
	Density Threat Alert (DTA)
	Operator Training Program (OTP)
	Multi-System Network Display Station (NDS)
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DENSITY THREAT ALERT (DTA)

DENSITY
THREAT ALERT
(DTA) VISUALLY
HIGHLIGHTS
HIGH
ABSORBING
MATERIALS ON
THE SCREEN.

DENSE OBJECT DETECTION
ALERT

BAGGAGE AND PARCEL
INSPECTION SYSTEMS



With DTA



Without DTA

DENSITY THREAT ALERT (DTA) VISUALLY HIGHLIGHTS HIGH ABSORBING MATERIALS ON THE SCREEN. A USER DEFINED THRESHOLD CAUSES A VISIBLE ALARM WHEN AN OBJECT EXCEEDS THE SPECIFIED DENSITY. THIS FEATURE CAN PREVENT OPAQUE ITEMS FROM ESCAPING SEARCH.

DTA is a real-time function that doesn't require the operator to stop the conveyor and prolong the evaluation time. It also does not require any operator image manipulation and processing.

The DTA function prompts a visible alarm on the screen in the form of blinking shaded magenta.

The absorption threshold and frequency of blinking alarm are programmable parameters and can easily be adjusted by the supervisor.

DTA simultaneously functions with Threat Image Projection (TIP) and Target™ (explosives detection alert) and NARCSan™ (narcotics detection alert).

FEATURES

- Detection alert of highly dense objects
- Highly visible on-screen flashing of dense items
- Real time detection without the need to stop the conveyor
- Simultaneous functionality with TIP, Target™ and NARCSan™
- Available on all Rapiscan Systems' 600 series X-ray systems

BENEFITS

- Assists operators in identifying objects that otherwise be missed
- Increases visibility to the operator of highly dense items
- Improved security by assisting operator to identify explosives and other contraband that may be otherwise covered or not easily visible
- Increased throughput by accelerating the checking procedure
- Increase and shift operator focus on passenger behavior from continuous monitoring the screen

DENSITY THREAT ALERT (DTA)



Availability

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	Explosives Detection Alert (Target™)
	Detection of LAGs Explosives and precursors (aLEXis™)
	Narcotics Detection Alert (NARCScan™)
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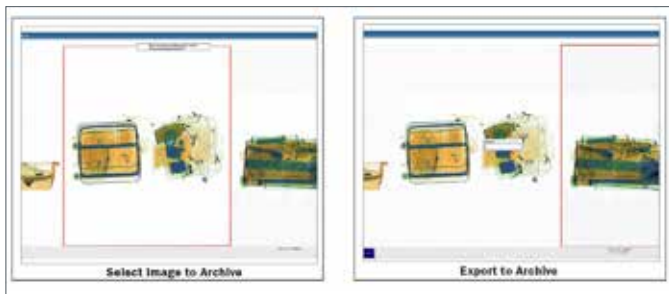


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MANUAL AND AUTOMATIC ARCHIVE

EASY RETRIEVE AND REVIEW

IMAGE ARCHIVING



RAPISCAN'S BAGGAGE AND PARCEL INSPECTION X-RAY SCREENING SYSTEMS OFFER TWO TYPES OF IMAGE ARCHIVING - ADVANCED MANUAL AND AUTOMATIC.

In both modes, the stored images can be retrieved at a later time for operator training, improved operator efficiency verification or to review previously scanned images if subsequent events make such a review necessary.

MANUAL IMAGE ARCHIVING

Rapiscan Systems' Manual Image Archive feature provides the ability for the operator to store the scanned image onto the system hard drive for retrieval and review at a later time. In this feature the operator manually selects and stores the image on the display screen via a single button available on the operator control panel. Each image then can be named with a full description, if desired.

AUTOMATIC IMAGE ARCHIVING

Automatic Image Archiving, Auto-Archive, enables all the scanned images to be stored onto the system hard drive "automatically" without operator intervention.

IMAGE RETRIEVE AND REVIEW

Retrieving archived images is easily accessible from user friendly GUI on the main menu. In this menu two choices of either "Review Manual Archives" or "Review Auto Archives" from the "Image Archives" submenu is available via the X-ray system control panel touch pad. Choosing either option opens the "Review Archives Viewer" and the "Filter Options" window. In this window the operator can specify the images to be retrieved by a variety of filter types. The most recent image will start to scroll on screen with additional images following through on the operator control panel. All available image enhancements functions (such as Crystal Clear, Inverse, and Black and White) are available for application.

EXPORTING IMAGE

Archived images can be exported from the X-ray system onto an external USB type drive. The type of file format can also be specified during export either as Rapiscan proprietary format or as a standard bitmap (.bmp) format or both. NOTE: If the image is in Rapiscan Systems proprietary file format, it can only be viewed on a Rapiscan Systems X-ray system or a Rapiscan Systems Network Display Station.

FEATURES

- Choice of manual or automatic archive
- Enhanced and comprehensive archive management
- Image retrieval with image processing
- Image export via direct USB for viewing on PC
- Network shared folder for remote monitoring

BENEFITS

- Continuous operator training
- Monitoring operator performance
- Share and view images on standalone Windows based PC

IMAGE ARCHIVING

Rapiscan®
systems

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Availability

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BAGGAGE AND PARCEL INSPECTION SYSTEMS - EMEA REGION

WARRANTY - UK

For a period of 12 months from the date of delivery, Rapiscan Systems will provide:

- Technical Phone Support
(Mon – Fri 8:00am – 5:00pm GMT)
- Onsite Response if required within 1 business day
- Corrective Repair Labour
Mon – Fri 8:00am – 5:00pm local time
- All necessary repair parts*
- Economy Shipment of replacement parts
- All Required Travel Expenses

Additional Service Plans available for purchase during warranty period including Preventative Maintenance, Radiation Surveys and Enhanced Site Response Times.

WARRANTY - OUTSIDE UK

- For a period of 12 months from the date of delivery, Rapiscan Systems will provide:
- Technical Phone Support
(Mon – Fri 8:00am – 5:00pm GMT)
- All necessary repair parts*
- Economy Shipment of replacement parts

sales@rapiscansystems.com
www.rapiscansystems.com

WARRANTY COVERAGE AND MAINTENANCE SERVICE PLANS



AS A TRUE GLOBAL COMPANY, RAPISCAN SYSTEMS PROVIDES THE HIGH-QUALITY SUPPORT YOU NEED – REGARDLESS OF LOCATION, TIME ZONE OR LANGUAGE. WITH OUR EXPERIENCE AND DEDICATION, WE PROVIDE INNOVATIVE AND DEPENDABLE SECURITY SOLUTIONS TO CUSTOMERS WORLDWIDE AND THEN BACK EACH SYSTEM WITH THE MOST SUBSTANTIVE, YET FLEXIBLE, MAINTENANCE AND WARRANTY PLANS AVAILABLE. IN THE FAST-PACED WORLD OF SCREENING AND INSPECTION, YOU CAN'T AFFORD TO LOSE TIME TO EQUIPMENT MAINTENANCE – AND WITH RAPISCAN SYSTEMS, YOU WON'T HAVE TO.

PLATINUM SERVICE PLAN

- On-site coverage 24 hours a day, 7 days a week, 365 days a year
- Technical Phone Support 24 hours a day / 7 days a week / 365 days a year
- Corrective Repair Labour with response time to site within 4-24 hours.
- All necessary repair parts*
- Express Shipment of replacement parts (if overseas)
- All Required Travel Expenses (additional mileage charge may apply for certain locations)
- Four (4) product specific Preventative Maintenance visits including Radiation Survey**

GOLD SERVICE PLAN

- On-site coverage during normal business hours
- Technical Phone Support (Mon – Fri 8:00am – 5:00pm GMT)
- Onsite Response if required within 1 business day
- Corrective Repair Labour (Mon – Fri 8:00am – 5:00pm local time)
- All necessary repair parts*

- Economy Shipment of replacement parts (if overseas)
- All Required Travel Expenses (additional mileage charge may apply for certain locations)
- Four (4) product specific Preventative Maintenance visits including Radiation Survey**

SILVER SERVICE PLAN

- On-site coverage during normal business hours
- Technical Phone Support (Mon – Fri 8:00am – 5:00pm GMT)
- Onsite Response if required within 1 business day
- Corrective Repair Labour (Mon – Fri 8:00am – 5:00pm local time)
- All Required Travel Expenses (additional mileage charge may apply for certain locations)
- Four (4) product specific Preventative Maintenance visits including Radiation Survey**

BRONZE SERVICE PLAN

- Regularly scheduled maintenance visits
- Four (4) product specific Preventative Maintenance visits including Radiation Survey**

WARRANTY COVERAGE AND MAINTENANCE SERVICE PLANS

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systems

An OSI Systems Company

Service Support Coverage	Warranty	Platinum	Gold	Silver	Bronze	Time & Material
Technical Support						
24 Hours / 7 Days / 365 Days Per Year	☐	☒	☐	☐	☐	☐
Monday – Friday 8:00 AM – 5:00 PM GMT	☒	☐	☒	☒	☒	☐
Response Time						
4/24 Hour Response – 7 Days / 365 Days Per Year	☐	☒	☐	☐	☐	☐
1 Business Day	☒	☐	☒	☒	☐	☐
All Necessary Repair Parts	☒	☒	☒	☐	☐	☐
On-site Repair						
24 Hours / 7 Days / 365 Days Per Year	☐	☒	☐	☐	☐	☐
Monday – Friday 8:00 AM – 5:00 PM local time	☒	☐	☒	☒	☐	☐
Shipping & Freight - Replacement Parts						
Express	☐	☒	☐	☐	☐	☐
Economy	☒	☐	☒	☐	☐	☐
Field Service Engineer - Includes Travel	☒	☒	☒	☒	☐	☐
Product Specific Preventative Maintenance	☐	☒	☒	☒	☒	☐
Product Specific Radiation Safety Surveys	☐	☒	☒	☒	☒	☐
Qualified - Discounts						
Multiple X-ray Systems Discount	☐	☒	☒	☒	☒	☐

Included ☒ Billable Items ☐ Qualified Discounts Available ☒

CUSTOMER SERVICE CONTACT

- Telephone:
+44 870 777 4301

- E-mail:
RSPUK-servicecontracts@
rapiscansystems.com

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Fax: +65-67-43-9915



Rapiscan Systems is ISO 9001:2008 Certified

sales@rapiscansystems.com
www.rapiscansystems.com

BAGGAGE AND PARCEL INSPECTION SYSTEMS - AMERICAS REGION

WARRANTY

For a period of 13 months from the date of shipment Rapiscan Systems will provide:

- Technical Phone Support
24/7/365
@ 888-258-6684
- Onsite Response if required within
2 business days
- Corrective Repair Labor
Mon – Fri 8:00am – 5:00pm
local time
- All necessary repair parts*
- Economy Shipment of replacement
parts
- All Required Travel Expenses

Additional Service Plans available for purchase during warranty period including Preventative Maintenance, Radiation Surveys and Enhanced Site Response Times.

OCONUS warranties are "parts only" and are 13 months from date of system shipment

Spares sales warranties are 90 days.

sales@rapiscansystems.com
www.rapiscansystems.com

WARRANTY COVERAGE AND MAINTENANCE SERVICE PLANS



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PLATINUM SERVICE PLAN

- On-site coverage 24 hours a day, 7 days a week, 365 days a year
- Technical Phone Support 24 hours a day / 7 days a week / 365 days a year
- Corrective Repair Labor with response time to site within 24 hours.
- All necessary repair parts*
- Express Shipment of replacement parts
- All Required Travel Expenses
- Product specific Preventative Maintenance and Radiation Survey Plan

GOLD SERVICE PLAN

- On-site coverage during normal business hours
- Technical Phone Support 24 hours a day / 7 days a week / 365 days a year
- Corrective Repair Labor Mon – Fri 8:00am – 5:00pm local time

- All necessary repair parts*
- Economy Shipment of replacement parts
- All Required Travel Expenses
- Product specific Preventative Maintenance and Radiation Survey Plans

SILVER SERVICE PLAN

- Two on-site Corrective Repair visits
- Technical Phone Support 24 hours a day / 7 days a week / 365 days a year
- Corrective Repair Labor Mon – Fri 8:00am – 5:00pm local time
- Necessary repair parts**
- Travel mileage within a 100 mile radius of the service location

BRONZE SERVICE PLAN

- Product specific Preventative Maintenance
- Radiation Safety Surveys

WARRANTY COVERAGE AND MAINTENANCE SERVICE PLANS

Rapiscan®
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An OSI Systems Company

Service Support Coverage	Warranty	Platinum	Gold	Silver	Bronze	Time & Material
Technical Support						
24 Hours / 7 Days / 365 Days Per Year	■	■	■	■		
Response Time						
24 Hours / 7 Days / 365 Days Per Year		■				
2 Business Days	■		■	■		
All Necessary Repair Parts	■	■	■	■*		□
On-site Repair						
24 Hours / 7 Days / 365 Days Per Year		■			□	□
Monday – Friday 8:00 AM – 5:00 PM local time	■		■	■		
Shipping & Freight - Replacement Parts						
Express		■				
Economy	■		■	■		□
Product Specific Preventative Maintenance	□	■	■		■	□
Product Specific Radiation Safety Surveys	□	■	■		■	□
Qualified - Discounts						
General Service Administration (GSA) Discount			□			
Multiple Systems Discount		□	□	□		
Multiple Contract Year Discount		□	□	□		

*excludes generators

Included ■ Billable Items □ Qualified Discounts Available □

CUSTOMER SERVICE CONTACT

- Telephone:
+1 888-258-6684

- E-mail:
servicecontracts@rapiscansystems.com

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AIR CARGO INSPECTION SYSTEMS - USA REGION

WARRANTY

For a period of 13 months from the date of shipment Rapiscan Systems will provide:

- Technical Phone Support
24/7/365
@ 888-258-6684
- Onsite Response if required within
2 business days
- Corrective Repair Labor
Mon – Fri 8:00am – 5:00pm
local time
- All necessary repair parts*
- Economy Shipment of replacement
parts
- All Required Travel Expenses

Additional Service Plans available for purchase during warranty period including Preventative Maintenance, Radiation Surveys and Enhanced Site Response Times.

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WARRANTY COVERAGE AND MAINTENANCE SERVICE PLANS



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PLATINUM SERVICE PLAN

- On-site coverage 24 hours a day,
7 days a week, 365 days a year
- Technical Phone Support
24 hours a day / 7 days a week / 365 days
a year
- Corrective Repair Labor with response time to
site within 24 hours.
- All necessary repair parts*
- Express Shipment of replacement parts
- All Required Travel Expenses
- Product specific Preventative Maintenance and
Radiation Survey Plan

GOLD SERVICE PLAN

- On-site coverage during normal business hours
- Technical Phone Support
24 hours a day / 7 days a week / 365 days
a year
- Corrective Repair Labor
Mon – Fri 8:00am – 5:00pm local time

- All necessary repair parts*
- Economy Shipment of replacement parts
- All Required Travel Expenses
- Product specific Preventative Maintenance and
Radiation Survey Plans

SILVER SERVICE PLAN

- Two on-site Corrective Repair visits
- Technical Phone Support
24 hours a day / 7 days a week / 365 days
a year
- Corrective Repair Labor
Mon – Fri 8:00am – 5:00pm local time
- Necessary repair parts**
- Travel mileage within a 100 mile radius of the
service location

BRONZE SERVICE PLAN

- Product specific Preventative Maintenance
- Radiation Safety Surveys

WARRANTY COVERAGE AND MAINTENANCE SERVICE PLANS

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Service Support Coverage	Warranty	Platinum	Gold	Silver	Bronze	Time & Material
Technical Support						
24 Hours / 7 Days / 365 Days Per Year	■	■	■	■		
Response Time						
24 Hours / 7 Days / 365 Days Per Year		■				
2 Business Days	■		■	■		
All Necessary Repair Parts	■	■	■	■*		□
On-site Repair						
24 Hours / 7 Days / 365 Days Per Year		■			□	□
Monday – Friday 8:00 AM – 5:00 PM local time	■		■	■		
Shipping & Freight - Replacement Parts						
Express		■				
Economy	■		■	■		□
Product Specific Preventative Maintenance	□	■	■		■	□
Product Specific Radiation Safety Surveys	□	■	■		■	□
Qualified - Discounts						
General Service Administration (GSA) Discount			□			
Multiple Systems Discount		□	□	□		
Multiple Contract Year Discount		□	□	□		

*excludes generators

Included ■ Billable Items □ Qualified Discounts Available □

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HOLD BAGGAGE SCREENING



BREAKTHROUGH CT SCREENING TECHNOLOGY WITH A HIGH RETURN ON INVESTMENT.

CLASS-LEADING HIGH
RESOLUTION 3D X-RAY IMAGES

SCANNING SPEED OF 0.5
METERS PER SECOND

FLEXIBLE SYSTEM
CONFIGURATION FOR
SEAMLESS INTEGRATION

LOWEST TOTAL OPERATING
COSTS

FULLY OWNED DESIGN

LEVEL ONE DECISION BEFORE
BAG EXIT

RAPISCAN RTT™ 110



Tunnel Opening (width x height):
D-shaped 1020 x 756 mm (40.2 x 29.8 in)

BREAKTHROUGH TECHNOLOGY FOR EDS

With its stationary gantry and industry leading image quality, the RTT™ is revolutionizing the EDS market by significantly lowering cost of ownership. The RTT's high quality full volumetric CT images enable the advanced automated explosives detection algorithms to provide exceptionally high levels of detection with class leading image quality and low false alarm rates.

HIGH SCANNING SPEED GIVES FLEXIBILITY

The RTT™ is designed to allow screening to the highest levels of security at the first point of screening. The versatility of RTT allows it to be used as a high speed in-line system at the first level of screening or as a level 3 system in a multi-level screening system.

FASTEST AUTOMATIC DECISION ON THE MARKET

High speed reconstruction provides high resolution CT data to detection algorithms allowing the detection of the full range of explosive threats. By determining the presence and position of a threat, the industry leading resolution allows optimal performance for the detection of materials in configurations typically difficult to detect.

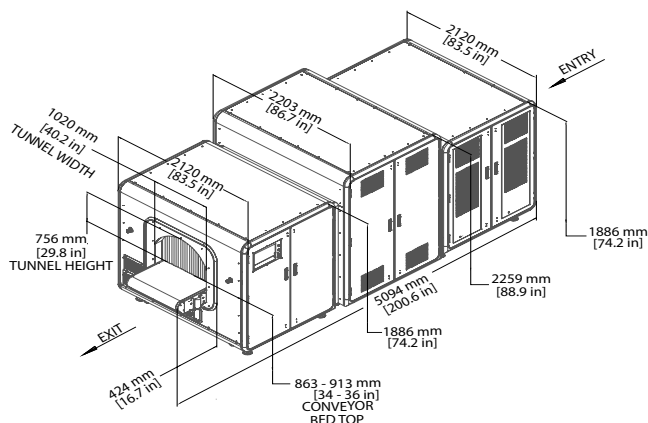
ROBUST DESIGN

The Rapiscan RTT™ employs a stationary gantry design, low parts count, and has multiple layers of network redundancy designed to ensure the highest levels of system availability and fail-safe operation for the most demanding aviation security environments.

REGULATORY COMPLIANCE

The RTT™ 110 is designed to meet ECAC Standard 3 for EDS and STP compliance to provide future-proof screening for years to come.

RAPISCAN RTT™ 110



SPECIFICATIONS

Realizable Throughput	Up to 1800 BPH, 0.5m/sec conveyor, non-stopping, with 1m bag window
Dimensions (LxWxH)	5,094 x 2,203 x 2,259 mm (200.6 x 86.7 x 88.9 inches)
General Service Area	914 mm (36 inch) on each side, no additional access required above or at ends.
Voltage Rating	400 Volts, 50hz 3 Phase + Earth, (EU) 415 Volts, 50hz 3 Phase + Earth, (UK) 480 Volts, 60hz 3 Phase + Earth, (USA)
Current Rating	30A
Power Requirements (Overall)	<13kW
Environmental Operating Envelope	0° to 40° C (32° to 107° F) and 10% to 90% non-condensing humidity at sea level.
Weight	6,650 Kg (14,661 lbs)

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PRODUCT HIGHLIGHTS

- EU ECAC Standard 3 Approved Explosives Detection System
- Stationary CT Gantry providing significantly higher reliability and system availability
- Full speed scanning at 0.5 m/s
- Full volumetric CT continuous scanning
- Fast advanced baggage reconstruction and explosives detection algorithms - level 1 decision before the bag exits the machine
- HBS and parcel inspection class-leading high resolution 3D X-ray images and low false alarm rates
- Built-in flexible system configuration, to fit into any BHS architecture or security system
- Modular chassis design allows installation flexibility
- Easily integrated into any baggage handling system supports almost any industrial network
- Multiplex capabilities of up to 30 systems and 60 workstations
- Rapiscan fully owns the design and expertise for all core RTT technologies ensuring fast delivery to market of new product improvements.

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04302432-R2 091215

MULTI VIEW X-RAY IMAGING FOR HIGH SPEED CHECKED BAGGAGE, MAIL AND PARCEL APPLICATIONS.

MULTI-VIEW, DUAL ENERGY
FLEXIBLE, COST EFFECTIVE
HIGH SPEED AUTOMATIC
DETECTION
INDUSTRY-LEADING ANALYSIS
TIME

PRODUCT HIGHLIGHTS

- Fast advanced baggage reconstruction and explosives detection algorithms
- HBS class-leading high quality X-ray images and low false alarm rates
- 5-view dual-energy technology
- Built-in flexible system configuration, to fit into any security architecture
- Robust design, to meet the highest system availability requirements
- Modular chassis design allows for installation flexibility

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RAPISCAN MVXR5000



Shown with Optional Air Conditioner
Tunnel Opening (width x height):
1,003 x 802 mm (39.5 x 31.6 in)

HIGH SPEED AUTOMATIC DETECTION TO MEET GLOBAL REGULATIONS.

The Rapiscan MVXR5000 multi-view dual-energy X-ray system with 5 high quality images offers advanced automated explosives detection with low false alarm rates.

100% LEVEL 1, 2, AND 3 BAGGAGE SCREENING

100% baggage screening is accomplished by the high speed throughput, up to 1800 bags per hour, and accurate automated explosives detection (level 1) capabilities of the Rapiscan MVXR5000. This high throughput is matched with gigabit data transfer capabilities allowing near-real time suspicious bag analysis by a networked group of remote operators (level 2). Remote operator analysis is aided by the identification of the potential threat item(s) by the automated detection algorithms. Images can also then be transmitted to the manual inspection stations (level 3) as a search aid, or images can be sent to supervisor workstations for additional analysis.

ADVANCED FAST DETECTION ALGORITHMS

Fast reconstruction and detection algorithms use the 5 views of high resolution dual-energy images to detect the full range of explosive threats. By determining the presence and position of a threat based upon context, material density, size and effective atomic number the multiple views allow optimal performance for the detection of materials in configurations typically difficult to detect.

INDUSTRY-LEADING ANALYSIS TIME

The MVXR5000 combines high throughput with industry-leading image analysis resulting in less bags being diverted to level 3 and more bags exiting on time.

ROBUST DESIGN

The Rapiscan MVXR5000 has multiple layers of network redundancy designed to ensure the highest levels of system availability and fail-safe operation for the most demanding aviation security environments.



COMPUTER
BASED OPERATOR
TRAINING,
AN EFFECTIVE
SOLUTION
FOR TRAINING
ALL LEVELS.

REAL WORLD THREAT
REPRESENTATION

ONE LICENSE FOR MULTIPLE
USERS

COST EFFECTIVE



Operator Course Screen



Lab Exercise



Unit Exam

THE RAPISCAN MVXR5000 COMPUTER BASED TRAINING (CBT) PROGRAM IS PC BASED SOFTWARE USED FOR EFFECTIVELY TRAINING PERSONNEL ON THE OPERATION OF THE RAPISCAN MVXR5000 HOLD BAGGAGE X-RAY SCREENING SYSTEM.

This interactive, self-paced program contains a tutorial course and an X-ray system simulator. The representation of real-world threats is used to assist the operator in understanding the importance of careful examination of every bag and parcel. Both programs use our Adaptive Difficulty Engine (ADE) to assess an operator's proficiency in core skill areas and then tailor exams to match aptitude levels.

FEATURES

- Real-world threat scenarios
- Self-paced courses
- Evaluates and adapts to challenge operator's skill level

BENEFITS

- One license per PC, multiple users
- Single database on a network server
- Cost effective
- Can be employed anytime, anyplace

TUTORIAL COURSE

The tutorial course readies operators to correctly operate the basic features of the Rapiscan MVXR5000 X-ray systems.

- Summary at the end of each tutorial and completed course
- Practice sessions within tutorial
- Glossary of definitions on each page
- Icon to identify specific objects being analyzed
- Ability to send messages to instructor at any stage during the course

SIMULATION COURSE

The simulation course is an interactive training program that provides an opportunity for operators to apply their X-ray interpretation skills by means of an on-screen simulation of the system.

- X-ray interpretation practice
- 3-levels of increasing difficulty
- Review session
- X-ray interpretation final exam

RAPISCAN MVXR5000 CBT



Simulation Course

TUTORIAL COURSE TOPICS

X-ray Basics – Full instruction of basic X-ray principles and safety precautions to be observed while operating the system.

System Operation – Complete training on the core components and indicator lights that comprise the system.

Image Controls – Broad instructions on image processing and zoom control features for X-ray image interpretation to aid operator with x-ray image interpretation.

Advanced Features – Comprehensive guidelines and instructions on advanced image processing, zoom features, image archiving and Threat Image Projection (TIP) image response.

SIMULATION COURSE USAGE

X-ray Interpretation Training – The extensive X-ray image library contains both fictional threat and benign items that appear randomly. The fictional threat items include guns, knives, explosives, sharp objects, and Improvised Explosive Devices (IED). Operators develop proficiency by advancing through three levels of difficulty based on bag complexity and orientation of the threat.

Adaptive Training - As operators work through practice sessions, a sophisticated algorithm monitors and tracks executed actions and decisions for each image. Upon completion of a practice session, the algorithm determines whether the operator correctly responded to the exposed X-ray images. Based on that performance, subsequent practice sessions are tailored to meet the specific training needs of the operator.

Ongoing X-ray Interpretation Practice – The extensive X-ray image library and adaptive algorithm helps operators develop knowledge of a wide variety of look-alike threats under X-ray. Trainers can tailor sessions to focus on specific threats of concern for their organization to continuously ensure the detection skills of operators.

The Rapiscan MVXR5000 provides a limited set of threat objects AND CONCEALMENT TECHNIQUES, INTENDED TO assist OPERATORS in learning how to operate the system, but not FOR BECOMING FULLY proficient IN THREAT OBJECT OR CONCEALMENT TECHNIQUE DETECTION.

All of the information contained in this data sheet is subject to the disclaimers, limitations of liability and other terms contained in the Software License Agreement associated with this Product. Please carefully read the Software License Agreement before using the product.

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Fax: +65-6743-9915

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MINIMUM REQUIREMENTS

- Intel Pentium 1.6GHz processor
- 1 GB RAM
- 17" monitor
- Keyboard
- Mouse
- 16x CD Drive
- Windows XP Professional

AVAILABLE PROGRAMS

- Tutorial Course only
- Tutorial Course & Simulator

LANGUAGES AVAILABLE

- English
- Arabic

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www.rapiscansystems.com

WARRANTY COVERAGE AND MAINTENANCE SERVICE PLANS

RAPISCAN RTT - EMEA REGION

WARRANTY - UK

For a period of 12 months from the date of delivery, Rapiscan Systems will provide:

- Technical Phone Support
(Mon – Fri 8:30am – 5:30pm GMT)
- Onsite Response if required within 1 business day
- Corrective Repair Labour
Mon – Fri 8:30am – 5:30pm local time
- All necessary repair parts*
- Economy Shipment of replacement parts
- All Required Travel Expenses

Additional Service Plans available for purchase during warranty period including Preventative Maintenance, Radiation Surveys and Enhanced Site Response Times.

WARRANTY - OUTSIDE UK

For a period of 12 months from the date of delivery, Rapiscan Systems will provide:

- Technical Phone Support
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- All necessary repair parts*
- Economy Shipment of replacement parts

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AS A TRUE GLOBAL COMPANY, RAPISCAN SYSTEMS PROVIDES THE HIGH-QUALITY SUPPORT YOU NEED – REGARDLESS OF LOCATION, TIME ZONE OR LANGUAGE. WITH OUR EXPERIENCE AND DEDICATION, WE PROVIDE INNOVATIVE AND DEPENDABLE SECURITY SOLUTIONS TO CUSTOMERS WORLDWIDE AND THEN BACK EACH SYSTEM WITH THE MOST SUBSTANTIVE, YET FLEXIBLE, MAINTENANCE AND WARRANTY PLANS AVAILABLE. IN THE FAST-PACED WORLD OF SCREENING AND INSPECTION, YOU CAN'T AFFORD TO LOSE TIME TO EQUIPMENT MAINTENANCE – AND WITH RAPISCAN SYSTEMS, YOU WON'T HAVE TO.

PLATINUM SERVICE PLAN

Remote Support 24 hours a day, 7 days a week,
365 days a year

- All necessary repair parts
- Shipping and freight costs for replacement parts
- Labour costs (including travel, accommodation and incidentals)
- 3 quarterly & 1 annual preventative maintenance visit per annum
- Onsite response up to 12 hours from receipt of request

GOLD SERVICE PLAN

Remote Support during business hours
(Monday - Friday 8:30am - 5:30pm GMT)

- All necessary repair parts
- Labour costs (including travel, accommodation and incidentals)
- 3 quarterly and 1 annual preventative maintenance visit per annum
- Onsite response up to 24 hours from receipt of request

SILVER SERVICE PLAN

Remote support during business hours
(Monday - Friday 8:30am - 5:30pm GMT)

- Spare parts required to complete preventative maintenance
- Labour costs (including travel, accommodation and incidentals)
- 3 quarterly and 1 annual preventative maintenance visit per annum
- Onsite response up to 24 hours from receipt of request

BRONZE SERVICE PLAN

Remote support during business hours
(Monday - Friday 8:30am - 5:30pm GMT)

- Spare parts required to complete preventative maintenance
- 3 quarterly and 1 annual preventative maintenance visit per annum
- Onsite response up to 48 hours from receipt of request

ONSITE SERVICE PLAN

- 24 hour, onsite support plans available upon request.

WARRANTY COVERAGE AND MAINTENANCE SERVICE PLANS

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An OSI Systems Company

CUSTOMER SERVICE CONTACT

- Telephone: +44 870 777 4301

- E-mail: RSPUKEMEAHBSServiceTeam@rapiscansystems.com

Service Support Coverage	Maintenance Service Plans					
	Warranty	Platinum	Gold	Silver	Bronze	Region
Technical Support						
24 Hours / 7 Days / 365 Days Per Year		■				United Kingdom
		■				Europe
						CIS
		■				Africa
						Middle East
Monday – Friday 8:30 AM – 5:30 PM GMT	■		■	■	■	United Kingdom
	■		■	■	■	Europe
	■	■	■	■	■	CIS
	■	■	■	■	■	Africa
	■		■	■	■	Middle East
Onsite Response Time						
12 Hour		■				United Kingdom
		■				Europe
		■				CIS
						Africa
		■				Middle East
24 Hour	■		■	■	■	United Kingdom
	■		■	■	■	Europe
		■	■			CIS
			■			Africa
						Middle East
48 Hour					■	United Kingdom
					■	Europe
	■			■		CIS
			■			Africa
	■			■		Middle East
72 Hour					■	United Kingdom
					■	Europe
	■					CIS
				■		Africa
	■				■	Middle East
Spare Parts						
All Spare Parts	■	■	■	□	□	United Kingdom
	■	■	■	□	□	Europe
	■	■	■	□	□	CIS
	■	■	■	□	□	Africa
	■	■	■	□	□	Middle East
Parts required to complete preventative maintenance	■	■	■	■	■	United Kingdom
	■	■	■	■	■	Europe
	■	■	■	■	■	CIS
	■	■	■	■	■	Africa
	■	■	■	■	■	Middle East
Part shipping cost included	■	■	■	□	□	United Kingdom
	■	■	□	□	□	Europe
	■	■	□	□	□	CIS
	■	■	□	□	□	Africa
	■	■	□	□	□	Middle East
Labour						
Labour costs (including travel, accommodation & incidentals)	■	■	■	■	□	United Kingdom
		■	■	■	□	Europe
		■	■	■	□	CIS
		■	■	■	□	Africa
		■	■	■	□	Middle East
Preventative Maintenance						
3 x Quarterly & 1 x annual PM per annum	□	■	■	■	■	United Kingdom
	□	■	■	■	■	Europe
	□	■	■	■	■	CIS
	□	■	■	■	■	Africa
	□	■	■	■	■	Middle East

Included ■ Billable Items □

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123015

RADIATION DETECTION



LOCAL RADIATION ALARM BOX FOR PORTAL MONITORS.

VISUAL AND AUDIBLE ALARMS
INSTALL IN NEARBY FACILITY
SUPPORTS TWO MONITORS
COST EFFECTIVE

MARKETS

- Aviation
- Critical Infrastructure
- Customs and Border Control
- Event Security
- Law Enforcement
- Defense

TSA AM270



THE TSA AM270 IS A REMOTE ALARMS MONITOR USED WITH RAPISCAN RADIATION DETECTION PEDESTRIAN AND VEHICLE PORTAL MONITORS.

The AM270 provides both audible and visual alarm indications for radiation alarms, low and high background alarms, and tamper conditions.

Parallel relay outputs are provided to permit interfacing with existing alarm systems.

The AM270 may be located up to 650 ft (200 m) from the farthest pillar to be monitored.

A test button is provided to check the operation of the lamp(s) and audio circuits. An acknowledge button silences the audio and clears the lamp(s). If the alarm is not acknowledged, the lamp(s) will follow the system's status.

The AM270 operates from an internal battery which is continuously charged from the ac line. If ac power is lost, the battery will provide more than 24 hours of continued operation.

One AM270 will monitor two systems or two SC770 controllers.

The AM270 is controlled by a programmable logic device. This allows the flexibility to provide custom operation for special applications.

CONTROLS AND INDICATORS:

- Four lamps per pillar
- Power LED
- SONALERT audio annunciator
- Internal jumper selects either blinking or steady lamps
- Lamp test and alarm acknowledge switches
- Key switch is provided to disable the audio alarm

TSA AM270

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PHYSICAL SPECIFICATIONS

Display	4 alarm indicator lamps (LEDs) per pillar being monitored; one systems ready LED, one power on LED
Power Requirements	90 - 250 Vac, 47 - 63 Hz, less than 50 VA provides power to charge the internal, 12 volt, 7Ah sealed lead-acid battery pack
Battery Operation	More than 24 hours of normal operation
Dimensions	7.5 h x 8.375 w x 8 d in. (19 x 21.3 x 20.3 cm)
Weight	≈15 lb (6.8 kg)
Environmental	-30° to 120°F (-34° to 50°C), designed for use in a sheltered area

FEATURES

Controls	Momentary contact alarm acknowledge switch, key lock switch, and lamp test switch
Connections	Power: Standard, three pin, U.S. 115Vac power connector Input: One 4 pin, quick connect type terminal strip per system Output: One 12 pin, quick connect type terminal strip
Output Relay Contacts	Maximum 0.6 amp at 120Vac

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D00231-2 032717

WASTE MONITOR FOR SMALL OBJECTS

HIGH SENSITIVITY

EFFICIENT, ACCURATE
ANALYSIS

TOUCHSCREEN OPERATION

COST EFFECTIVE

MARKETS

- Critical Infrastructure
Hospitals
Nuclear Facilities
- Defense

TSA BM185



THE TSA BM185 IS DESIGNED TO SCAN SMALL ITEMS (LESS THAN 1 FT.3) FOR RADIOACTIVE EMISSIONS AND IS IDEAL FOR MONITORING PRIOR TO RELEASE FROM THE FACILITY.

With an efficient and accurate go/no go analysis and typical scan times of one to three minutes, the TSA BM185 waste monitor allows for efficient and cost effective waste management.

ADVANCED DESIGN FEATURES

The TSA BM185 provides 4pi geometry and efficiency of greater than 45% for 60Co for effective and accurate screening of all sides of the item. The monitor's high sensitivity and uniform measurement is achieved by using large surface area plastic scintillator detectors on all six sides of the counting chamber. With lead shielding on all sides, the BM185 provides higher sensitivity and isolates the scanned item from any external radiation influence. Designed for minimal maintenance, the TSA BM185's electronics are mounted above the chamber for easy access. The touchscreen panel PC is mounted on an arm that allows for ease of movement while protecting the touchscreen.

PROGRAMMABLE DETECTION PARAMETERS

With the ability for an administrator to define screening parameters, customizing the BM185 for specific radioactive isotopes or 'waste streams' is possible. The operator selects the proper waste stream from an annotated list for each item to be scanned making the BM285 flexible when screening for multiple contaminants.

EASY-TO-OPERATE

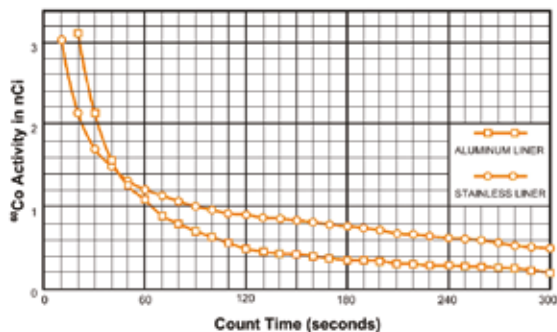
Operation is simple using the color touchscreen panel PC. Easy to read graphics provide instant reporting of system status and operating mode. Administrators can generate reports for all activity or only alarmed activity for efficient record keeping on waste disposal.

FLEXIBLE OPTIONS

The BM185 comes standard with a stainless steel liner that protects the detectors and allows for easy cleaning if contaminated. An optional aluminum liner is available if greater sensitivity is required. With the optional sodium iodide detector, spectral isotopic identification to fit specific detection requirements is possible.

TSA BM185

MINIMUM DETECTABLE ACTIVITY CHART



Confidence of Detection 90% (1.3 sigma)
False Alarm Rate 1/100 (2.33 sigma)
2% micro/hour background Eff. - 38%

SPECIFICATIONS

Conveyor Speed:	0.20 m/sec (39.4 ft./min)
Sensitivity	See the Minimum Detectable Activity Chart below
Detectors	Six 12 h x 12 w x 1.5 d in. (30 x 30 x 3.75 cm) plastic scintillator detectors, provides 1,296 in ³ (21 liters) of detector volume per system. Gamma energy range is 30 keV to 2 MeV.
Display	Fifteen inch panel PC, color monitor, with touch screen
Power Requirements	115/230 Vac, 47-63 Hz, <500 VA
Dimensions	40 h x 27 x 26 d in. (1,060 x 660 x 685 mm) not including side mount PC
Chamber Dimensions	11.75 h x 11.75 w x 12 d in. (30 x 30 x 30 cm)
Volume	Approximately 1 ft ³ (28 liters)
Weight	Approximately 1,800 lbs (820kg)
Environmental	32° to 100° F (0° to 38° C)

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STANDARD FEATURES

- 4pi Detector Geometry
- Stainless Steel Liner
- Lead Shielding on all Sides
- 20 Programmable Waste Streams
- User-Friendly Operator Interface
- Color Touchscreen Panel PC
- Keyboard (US English)
- Heavy Duty Casters

OPTIONS

- Aluminum Liner: provides minimum attenuation
- Internal scale
- Printer

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D00224-2 032717

WASTE MONITOR FOR MEDIUM- SIZED OBJECTS

HIGH SENSITIVITY

EFFICIENT, ACCURATE
ANALYSIS

TOUCHSCREEN OPERATION

COST EFFECTIVE

MARKETS

- Critical Infrastructure
 - Hospitals
 - Nuclear Facilities
- Defense

TSA BM285



THE TSA BM285 IS DESIGNED TO SCREEN MEDIUM-SIZED ITEMS FOR RADIOACTIVE EMISSIONS AND IS IDEAL FOR MONITORING PRIOR TO RELEASE FROM THE FACILITY.

With an efficient and accurate go/no go analysis and typical scan times of one to three minutes, the BM285 waste monitor allows for cost effective waste management.

ADVANCED DESIGN FEATURES

The TSA BM285 high sensitivity and uniform measurement is achieved by using large volume plastic scintillator detectors on all six sides of the counting chamber for effective and accurate screening of all sides of the item. The load platform, containing the weight monitoring load cells, is mounted on sliding runners to facilitate easier loading of heavy samples. With lead shielding on all sides, the BM285 provides higher sensitivity and isolates the scanned item from any external radiation influence.

PROGRAMMABLE DETECTION PARAMETERS

With the ability for an administrator to define screening parameters, customizing the TSA BM285 for specific radioactive isotopes or 'waste streams' is possible. The operator selects the proper waste stream from an annotated list for each item to be scanned, making the BM285 flexible when screening for multiple contaminants.

EASY-TO-OPERATE

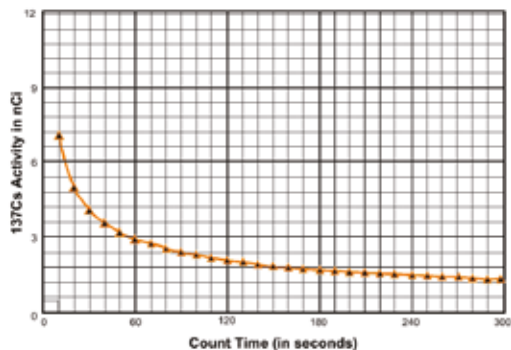
Operation is simple using the color touchscreen panel PC. Easy to read graphics provide instant reporting of system status and operating mode. Administrators can generate reports for all activity or only alarmed activity for efficient record keeping on waste disposal.

FLEXIBLE OPTIONS

With the optional scale the TSA BM285 is able to greater enhance facility operations. The BM285 comes standard with a stainless steel liner that protects the detectors and allows for easy cleaning if contaminated. An optional aluminum liner is available if greater sensitivity is required. With the optional sodium iodide detector, spectral isotopic identification to fit specific detection requirements is possible.

TSA BM285

MINIMUM DETECTABLE ACTIVITY CHART



SPECIFICATIONS

Sensitivity	See the Minimum Detectable Activity Chart below
Detectors	Three 12 h x 19 w x 1.5 d in. (30 x 47.5 x 3.75 cm), plus three 12 h x 27 w x 1.5 d in. (30 x 68.5 x 3.75 cm) plastic scintillator detectors, provides 2484 in ³ (41 liters) of detector volume per system. Gamma energy range of 40 keV to 1.6 MeV, can be limited with discriminators. Detectors are fully shielded by a minimum of 1.75 in. (4.4 cm) of lead.
Display	Super VGA color flat panel monitor with touch screen.
Power Requirements	115/230 Vac, 47 - 63 Hz, 400 VA
Dimensions	48 h x 39 w x 38 d in (122 x 99 x 96 cm), the control box is 6 in. tall (152 mm), mounted on top of the unit and the PC extends 17 in. (432 mm) on the side
Chamber Dimensions	32" h x 28" w x 28" d, (81 x 71 x 71 cm)
Volume	14 ft ³ (396 liters)
Weight	9,998 lbs (4,535 kg)
Environmental	32° to 100° F (0° to 38° C)

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STANDARD FEATURES

- Screen up to 500 lbs
- Large Volume Plastic Detectors
- Stainless Steel Liner
- Lead Shielding on all Sides
- 20 Programmable Waste Streams
- User-Friendly Operator Interface
- Color Touchscreen Panel PC
- Keyboard (US English)
- Heavy Duty Casters

OPTIONS

- Aluminum Liner: provides minimum attenuation
- Sodium Iodide Detector: NaI (TI) detector and 1,024 channel MCA for spectral isotopic identification
- Slide-out Tray
- Internal Scale
- Printer

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WASTE MONITOR FOR LARGE OBJECTS

HIGH SENSITIVITY

EFFICIENT, ACCURATE
ANALYSIS

TOUCHSCREEN OPERATION

COST EFFECTIVE SOLUTION

MARKETS

- Critical Infrastructure
Hospitals
Nuclear Facilities
- Defense



THE TSA BM286 IS DESIGNED TO SCREEN ITEMS UP TO AND INCLUDING 55 GALLON DRUMS WEIGHING UP TO 1,000 LBS FOR RADIOACTIVE CONTAMINATION AND IS IDEAL FOR MONITORING PRIOR TO RELEASE FROM THE FACILITY.

With an efficient and accurate go/no go analysis and typical scan times of one to three minutes, the BM286 waste monitor allows for cost effective waste management.

ADVANCED DESIGN FEATURES

The TSA BM286 high sensitivity and uniform measurement is achieved by using large volume plastic scintillator detectors on all six sides of the counting chamber for effective and accurate screening of all sides of the item. The load platform, containing the weight monitoring load cells, is mounted on sliding runners to facilitate easier loading of heavy samples. With lead shielding on all sides, the BM286 provides higher sensitivity and isolates the scanned item from any external radiation influence.

PROGRAMMABLE DETECTION PARAMETERS

With the ability for an administrator to define screening parameters, customizing the TSA BM286 for specific radioactive isotopes or 'waste streams' is possible. The operator selects the proper waste stream from an annotated list for each item to be scanned, making the BM286 flexible when screening for multiple contaminants.

EASY-TO-OPERATE

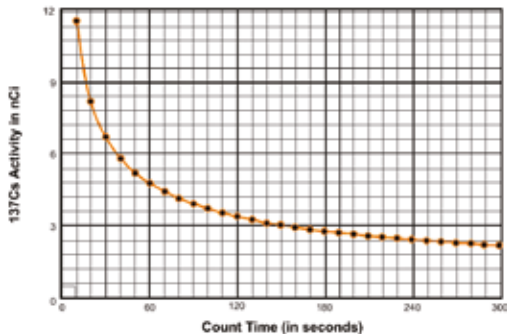
Operation is simple using the color touchscreen panel PC. Easy to read graphics provide instant reporting of system status and operating mode. Administrators can generate reports for all activity or only alarmed activity for efficient record keeping on waste disposal.

FLEXIBLE OPTIONS

With the optional scale the TSA BM286 is able to greater enhance facility operations. The BM286 comes standard with a stainless steel liner that protects the detectors and allows for easy cleaning if contaminated. An optional aluminum liner is available if greater sensitivity is required. With the optional sodium iodide detector, spectral isotopic identification to fit specific detection requirements is possible.

TSA BM286

MINIMUM DETECTABLE ACTIVITY CHART



Confidence of Detection 90% (1.3 sigma)
False Alarm Rate 1/100 (2.33 sigma)
25 micro R background Eff. - 9.7%

SPECIFICATIONS

Sensitivity	See the Minimum Detectable Activity Chart below
Detectors	Two 12 h x 19 w x 1.5 d in (30 x 47.5 x 3.75 cm), plus three 12 h x 36 w x 1.5 d in (30 x 91.4 x 3.75 cm) plus one 12 h x 32 w x 1.5 d in (30 x 82 x 3.75 cm) plastic scintillator detectors, provides 3,456 in ³ (56.6 liters) of detector volume per system. Gamma energy range of 40 keV to 1.6 Me V, can be limited with discriminators. Detectors are fully shielded by a minimum of 1.75 in. (4.4 cm) of lead.
Display	Super VGA color flat panel touchscreen monitor
Power Requirements	115/230 Vac, 47 - 63 Hz, 400 VA
Dimensions	64 h x 39 w x 38 d in (163 x 99 x 96 cm)
Chamber Dimensions	45 h x 28 w x 28 d in (114 x 71 x 71 cm)
Volume	20 ft ³ (566 liters)
Weight	12,000 lbs (5,443 kg)
Environmental	32° to 100° F (0° to 38° C)

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STANDARD FEATURES

- Screen up to 1,000 lbs
- Large Volume Plastic Detectors
- Stainless Steel Liner
- Lead Shielding on all Sides
- 20 Programmable Waste Streams
- User-Friendly Operator Interface
- Color Touchscreen Panel PC
- Keyboard (US English)
- Heavy Duty Casters

OPTIONS

- Aluminum Liner: provides minimum attenuation
- Sodium Iodide Detector: NaI (Tl) detector and 1,024 channel MCA for spectral isotopic identification
- Slide-out Tray
- Internal Scale
- Printer

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CONVEYOR RADIATION PORTAL MONITOR

HIGH SENSITIVITY

AUTOMATICALLY SCREEN
MOVING PARCELS OR BAGS

GAMMA AND NEUTRON
RADIATION DETECTION

FAST, SEAMLESS INTEGRATION

MARKETS

- Aviation
- Critical Infrastructure
- Customs and Border Control
- Event Security
- Defense

TSA CM267



Shown with Optional Heavy Duty Stand

THE TSA CM267 IS A STAND-ALONE CONVEYOR MONITOR WHICH CAN BE POSITIONED ON THE SIDE OR MOUNTED DIRECTLY ABOVE A MOVING BELTWAY.

The CM267 features highly sensitive detection for both gamma and/or neutron radiation.

ADVANCED DESIGN FEATURES

The TSA CM267 is a self-contained system housed in a single pillar with the gamma and neutron detectors for ease of installation and maintenance. An alarm output relay is standard which may be AC-coupled to stop or divert the conveyor automatically. The system is equipped with ethernet communications capability for integration with the operator interface.

PROGRAMMABLE DETECTION PARAMETERS

Selectable settings for sensitivity, energy discrimination, and fault levels may be entered by the administrator.

EASY-TO-OPERATE

In the field, after site preparation, the CM267 can be installed and operating in less than an hour. When powered up, the system first acquires an initial background, typically within 120-seconds and is ready to run indefinitely. When the CM267 senses items on the conveyor the system starts comparing the current count to the most recent background data. Alarm comparisons are made every 200ms. If the count exceeds the alarm level, both audible and visual alarms will be triggered. The system monitors itself and indicates low and high background conditions.

FLEXIBLE DETECTION OPTIONS

The TSA CM267 is available in three configurations; Gamma, Neutron or a combination of Gamma and Neutron detection. Gamma provides detection of ionizing radiation and Neutron provides detection of Special Nuclear Materials (SNM) while the combined Gamma and Neutron provides the most powerful detection capabilities for radioactive isotopes even in shielded materials.

INTERFACE OPTIONS

With the optional Remote Alarm Panel operators can view alarms up to 300m from the monitor. The TSA CM267 is compatible with TSA RAVEN™ communications software designed to both capture and view data and video images relating to a radiological detection incident.



TSA RAVEN™ (Radiation Alarm and Video Event Notification) communications software is used remotely to assist response personnel in the field to pinpoint radioactive sources. RAVEN can monitor multiple detectors and aid in managing individual detector activity.

TSA CM267

PHYSICAL SPECIFICATIONS

Dimensions:	Length: 6,366 mm (250.6 in.) Length with Conveyors: 8,496 mm (334.5 in.) Width: 3,379 mm (133.0 in.) Height: 3,181 mm (125.2 in.)
Sensitivity	Gamma: Will detect 10g of 235U (HEU) or 25g of 239Pu in 20 uR/hr background at a passage speed of one meter per second Neutron*: At a distance of 1 m, will detect less than 200g of plutonium in a shielded container that reduces the gamma flux to 1% of the unshielded gamma flux.
Detectors	Standard Gamma and Neutron: One 30 h x 6 w x 1.5 d in. (76 x 15 x 4 cm) organic plastic scintillation detector, shielded on four sides with 0.375 in. (10 mm) of lead provides approx. 270 in3 (4.4 liters) of detector volume per system. One B-10 detector or one 2 in. diameter x 36 in He3 detector*. High Sensitivity Gamma and Neutron: One 30 h x 6 w x 1.5 d in. (76 x 15 x 4 cm) organic plastic scintillation detector, shielded on four sides with 0.375 in. (10 mm) of lead provides approx. 270 in3 (4.4 liters) of detector volume per system. TOne B-10 detector or two 2 in diameter x 36 in He-3 He3 detectors*.
Alarm Indication	Gamma alarms are indicated by a red strobe light mounted on the light tower; high and low faults by an amber light, and neutron alarms by a blue strobe light. Separate audio alarms are triggered for gamma and neutron alarm conditions.
Display	Numeric LCD, 4 lines x 16 characters.
Communications	Equipped with Ethernet communications capability
Power Requirements	190-250 Vac, 47-63 Hz, 100 VA
Dimensions	70.5 l x 18.5 w x 12 d in. (179 x 47 x 30.5 cm) including mounting flanges
Weight	Approximately 371 lbs. (168 kg)
Environmental	-4° to 122° F (-20° to 50°C); designed for sheltered areas.

*For neutron detection B10 detectors are standard with He3 detectors optional.

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STANDARD FEATURES

- Programmable Detection Parameters
- Audio and Visual Indicators
- Relay Outputs for User Interface
- Universal Power Supply
- Ethernet Connectivity
- Universal Mount
- TSA RAVEN™ Compatible

DEFINITIONS

- Gamma Detection - For the detection of ionizing radiation.
- Neutron Detection - Typically used to detect Special Nuclear Materials (SNM).
- Gamma and Neutron Detection - For full spectrum detection capabilities.

OPTIONS

- Heavy Duty Extension Stand - Can be built to site-specific requirements.
- Remote Alarm Monitor
- TSA RAVEN™ Communications Software
- Wireless Output Capabilities

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D00227-2 032717

MOBILE RADIATION MONITOR

RADIATION MONITOR
DEPLOYED IN VAN

STATIONARY OR MOBILE
INSPECTION

GAMMA AND NEUTRON
RADIATION DETECTION

FLEXIBLE INSPECTION
OPERATIONS

MARKETS

- Airports
- Critical Infrastructure
- Aviation
- Event Security



Cut-away view of the TSA MD134 mounted in a van for mobile screening. (Van is not included.)



Detector



Controller

THE TSA MD134 IS DESIGNED TO AUTOMATICALLY SCAN VEHICLES OR CONTAINERS WITHOUT THE NEED FOR FREQUENT CALIBRATION.

The system can be stationary to scan vehicles as they drive by or it can be mounted in a vehicle and driven past items to be scanned.

ADVANCED OPERATIONAL FEATURES

When the system is powered up, it acquires an initial background count typically within 120 seconds. The TSA MD134 can be put in occupancy mode two different ways, sensor activated or constant. When occupancy is activated the system starts comparing the current count to the most recent background data. Alarm comparisons are made every 200ms. If the count exceeds the alarm level, both audible and visual alarms will be triggered. The system monitors itself and indicates low and high background conditions.

FLEXIBLE DETECTION OPTIONS

The TSA MD134 is available in three configurations; Gamma, Neutron or a combination of Gamma and Neutron detection. Gamma provides detection of ionizing radiation and Neutron provides detection of Special Nuclear Materials (SNM) while the combined Gamma and Neutron provides the most powerful detection capabilities for radioactive isotopes even in shielded materials.

INTERFACE FEATURES

The TSA MD134 includes TSA RAVEN™ communications software designed to both capture and view data and video images relating to a radiological detection incident.



TSA MD134

PHYSICAL SPECIFICATIONS

Dimensions:	Length: 6,366 mm (250.6 in.) Length with Conveyors: 8,496 mm (334.5 in.) Width: 3,379 mm (133.0 in.) Height: 3,181 mm (125.2 in.)
Sensitivity	Gamma: Will detect 1,000g of 235U (HEU) or 10g of 239Pu in 20uR/hr background at a passage speed of five mph (8km/h), at a distance of 39 in. (1 m). Neutron*: Will detect less than 200g of plutonium in a shielded container that reduces the gamma flux to 1% of the unshielded gamma flux.
Detectors	Gamma: Two, 48 h x 12 w x 1.5 d in. (121 x 30 x 3.8 cm) organic plastic scintillator detectors per skid; provide approximately 1,728 in ³ (28 liters) of detector volume. Standard Neutron*: Four, 2 in. diameter x 36 in. (5 x 91 cm) He ³ tube. High Sensitivity Neutron*: Eight, 2 in. diameter x 36 in. (5 x 91 cm) He ³ tube.
Alarm Indication	Alarms are indicated on the External Alarm Box and the laptop or PC that is monitoring the system.
Communications	Serial Port and Ethernet
Display	Alphanumeric LCD, 4 lines x 16 characters.
Charging Requirements	90-250, 47-63Hz or 12VDC from host vehicle.
Battery Life	16 hours of continuous operation.
Dimensions	66.4 in h x 60 w x 25 in d in. (168.5 cm x 152.5 x 63.5 cm) per skid.
Weight	500 lbs (227 kg) per skid.
Environmental	-4° to 122° F (-20° to 50°C); designed for sheltered areas.

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STANDARD FEATURES

- Programmable Detection Parameters
- Audio and Visual Indicators
- Relay Outputs for User Interface
- Universal Power Supply
- Ethernet Connectivity
- Wireless Output Capabilities
- Battery Backup
- Controller Mounting Options
- External Alarm Box
- TSA RAVEN™ Software

DEFINITIONS

- Gamma Detection - For the detection of ionizing radiation.
- Neutron Detection - Typically used to detect Special Nuclear Materials (SNM).
- Gamma and Neutron Detection - For full spectrum detection capabilities.

OPTIONS

- Wireless Communications
- Survey and Mobile Mode
- External Alarm Box

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*For neutron detection please contact your sales representative to determine availability and quantity of He³ tubes.

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Product Range

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BACKPACK RADIATION MONITOR

COVERT RADIATION
INSPECTION

GAMMA AND NEUTRON
RADIATION DETECTION

HIGH SENSITIVITY

LIGHTWEIGHT AND EASY
TO USE

MARKETS

- Customs and Border Control
- Event Security
- Defense
- Law Enforcement



THE RAPISCAN MP100 BACKPACK RADIATION DETECTION SYSTEM IS A LIGHTWEIGHT, HIGH PERFORMANCE, EASY TO USE RADIATION MONITOR HOUSED IN A COMPACT COMMERCIAL BACKPACK.

All of the features required for radiation detection are integrated in the MP100. It can be used as a standalone device and connected wirelessly to a Rapiscan oversight system for remote data collection and display. The MP100 is ideal for performing covert radiation inspection to find radiological and nuclear materials, for supporting security operations and for performing radiation surveys.

GAMMA AND OPTIONAL NEUTRON RADIATION DETECTION

The MP100 uses commercial-off-the-shelf, field-proven electronics and detection technology. The PVT plastic scintillator gamma radiation detectors are designed to deliver enhanced directional sensitivity. Optional neutron detection capability employs B10 neutron detectors, which replace scarce and expensive He3 detectors. Both gamma and neutron radiation detection performance meet the requirements of ANSI N42.53.

EASY TO USE OPERATION

Using the MP100 is as easy as walking. The Rapiscan Rad viewer™ Android App displays the current position and direction toward the radiation source. A radiation alarm is signaled audibly via a headphone jack on the backpack or visually via Radviewer™. The onboard battery enables 16 hours of continuous operation in a wide range of environments. The MP100 can also be used as a static area monitor.

PROVEN RADIATION INSPECTION TECHNOLOGY

The MP100 is manufactured by Rapiscan's Radiation Detection Products division, which has supplied thousands of radiation monitors that are deployed at border crossings, seaports, airports and facilities around the world. The MP100 applies proven Rapiscan design principles and technology to a practical, high performance man-portable radiation detection solution.

MP100

PHYSICAL SPECIFICATIONS

Configuration:	Radiation detection system in a backpack
Backpack:	Commercially available backpack
Gamma Radiation Detector:	2 PVT plastic scintillator gamma detectors
Gamma Detector Volume:	1.2 liters
Electronics:	Low noise electronics with embedded algorithms
Weight with Gamma Detector:	6.3kg (14lb)

PERFORMANCE SPECIFICATIONS

Gamma Radiation Detection:	Meets ANSI N42.53 detection performance.
Background Updates:	Automatic background updates; manual updates per ANSI N42.53
Azimuthal Response:	Dual PVT detectors provide superior azimuthal response uniformity

OPERATION

Inspection Modes:	Portable search or stationary area monitor
Alarms:	Audible alarm via headphone jack or visual alarm via Radviewer™ Android App
Control:	Configurable inspection parameters
Graphical User Interface:	Rapiscan Radviewer™ Android App
Source Location:	Left/right source location with Radviewer™ App
GPS:	GPS coordinates via Android device
Power:	Lithium-ion battery
Battery Life:	16 hours continuous operation
Network Interfaces:	Wifi, wired Ethernet, TCP/IP
Remote Oversight:	Rapiscan RTDC™ and RAVEN™

OPERATING ENVIRONMENT

Temperature:	-10°C to 50°C
Humidity:	5 to 95% non-condensing
Environmental Protection:	IP41 rated backpack

OPTIONS

Neutron Detector:	B10 detector
Neutron Radiation Detection:	Meets ANSI N42.53 detection performance
Weight with Gamma-Neutron:	10kg (22lb)
Environmental Protection:	IP66 rated backpack
Audio Device:	Headphones or ear piece
Android Mobile Device:	Android smartphone or tablet

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STANDARD FEATURES

- Gamma Radiation Detection

OPTIONAL FEATURES

- Neutron Radiation Detection

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HAND-HELD RADIATION MONITOR

LIGHTWEIGHT

EASY-TO-OPERATE

SEARCH FOR RADIOACTIVE
SOURCE

COST EFFECTIVE PRIMARY OR
SECONDARY SCREENING

MARKETS

- Aviation
- Critical Infrastructure
- Customs and Border Control
- Defense
- Law Enforcement
First Responders
- Event Security
- Ports

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TSA PRM470



THE TSA PRM470 PERSONAL HAND-HELD RADIATION MONITOR IS IDEAL FOR SEARCHING AT PLANT EXITS AND MATERIAL ACCESS AREAS, AS WELL AS CONTAMINATION AND BACKGROUND MONITORING.

The small size, light weight, and long battery life make it ideal for searching vehicles that require extended search times. The PRM470 hand-held is a popular choice for locating radioactive sources and measuring intensity in the field.

ADVANCED DESIGN FEATURES

The TSA PRM470 uses low power electronics to provide up to 17 hours of continuous operation from the rechargeable batteries. The PRM470 also features a self-test during power up, automatic background count and user determined alarm settings. Detection information and parameters are easy to read on the backlit display that can be used in dark or light conditions.

PROGRAMMABLE DETECTION PARAMETERS

Settings may be configured from the front panel, or from a personal computer.

EASY-TO-OPERATE

The TSA PRM470 is typically ready to use within 20 seconds of start-up. The PRM470 features an audio and visual search/find mode to assist in pinpointing radioactive sources. The PRM470 uses a motion switch to automatically switch from background to search mode when the instrument is moved. After the instrument has been at rest for a preset duration, it will revert to background update. The unit may be programmed by the user to scale the display to CPS, $\mu\text{Sv/hr}$ or mR/hr . This conversion is not energy compensated. Therefore, the value displayed is only an approximation of actual dose rate.

As detected counts increase, so does the frequency of the audio signal helping to pinpoint the location of the radioactive source. LED indicators respond in similar fashion, flashing faster as counts increase. On gamma and neutron instruments, the LED indicators also assist to identify the type of radiation being detected (a red LED for gamma, and blue LED for neutron radiation).

A serial port is available for managing detection parameters and controlling security levels for the individual unit from a computer.

FLEXIBLE DETECTION OPTIONS

The TSA PRM470 is available in three configurations; Gamma, Neutron or a combination of Gamma and Neutron detection. Gamma provides detection of ionizing radiation and Neutron provides detection of Special Nuclear Materials (SNM) while the combined Gamma and Neutron provides the most powerful detection capabilities for radioactive isotopes even in shielded materials.

TSA PRM470

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PHYSICAL SPECIFICATIONS

Sensitivity	Will detect 10g HEU or 1g 239Pu when tested in accordance with ASTM Standard C 1237*
Detectors	Gamma: One, 3.5 h x 2.88 w x 1.24 d in. (8.8 x 7.2 x 3.1 cm) organic plastic scintillator detector; provides approximately 12.6 in ³ (206cc) of detector volume. Neutron: Two, He ³ tube, 4 in. (10.2 cm) active, 4 ATM. Gamma and Neutron: One, 3.5 h x 2.88 w x 1.24 d in. (8.8 x 7.2 x 3.1 cm) organic plastic scintillator detector; provides approximately 12.6 in ³ (206 cc) of detector volume and one, He3 tube, 4 in. (10.2cm) active, 4 ATM.
Alarm Level	User configurable from 0.1 to 9.9 sigma
Alarm Indication	Audible tone and LED
Count Time	Gamma search mode: 0.05 sec. count with 0.4 sec. moving average. Neutron: 1 sec. count time. Background time: Operator configurable
Display	Alphanumeric LCD, 4 lines x 16 characters, with back-light
Power Requirements	Internal rechargeable battery pack
Dimensions	Box = 7.75 h x 4.75 w x 3.5 d in. (19.7 x 12.06 x 8.9 cm) Handle = 4.75 h x 2.75 w x .75 d in. (12.06 cm x 7.00 cm x 1.90 cm)
Weight	2.4 lb (1.1 kg) with batteries
Environmental	32° to 100°F (0° to 38°C)

*ASTM Standard C 1237 is available from The American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428 (610) 832-9585 www.astm.org

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STANDARD FEATURES

- Programmable Detection Parameters
- Programmable Security Levels
- Audio and Visual Indicators
- Universal Power Supply
- Serial Port Connectivity
- NmHi Battery Pack

DEFINITIONS

- Gamma Detection - For the detection of ionizing radiation.
- Neutron Detection - Typically used to detect Special Nuclear Materials (SNM).
- Gamma and Neutron Detection - For full spectrum detection capabilities.

OPTIONS

- Replaceable Alkaline Battery
- Serial Port

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PEDESTRIAN RADIATION PORTAL MONITOR

AUTOMATED WALK-THROUGH
INSPECTION

HIGH SENSITIVITY

GAMMA AND NEUTRON
RADIATION DETECTION

PROVEN IN HUNDREDS OF
DEPLOYMENTS WORLDWIDE

MARKETS

- Aviation
- Critical Infrastructure
- Customs and Border Control
- Defense
- Nuclear Facilities
- Ports

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TSA PM700



THE RAPISCAN TSA PM700 IS A HIGH SENSITIVITY PORTAL MONITOR FOR PEDESTRIAN RADIATION INSPECTION APPLICATIONS.

It is ideal for screening people at airports, border crossings, seaports, critical infrastructure and nuclear facilities. People are automatically inspected as they walk between the pillars of the monitor. The TSA PM700 is a standalone device with all the features and capabilities required for effective radiation inspection.

DESIGN

The two pillars of the TSA PM700 house the radiation detectors and electronics, including the system controller and occupancy sensors. Operating parameters are easily input with the touchpad on the controller. Power and data cables between the pillars are contained in overhead conduits. A rechargeable backup battery supports 8 hours of operation if the main AC power fails. A light indicates a tamper or fault condition.

OPERATION

The TSA PM700 continuously measures the background radiation and signals background alarm conditions. When the occupancy sensors detect a person approaching the monitor, it automatically switches to inspection mode. Radiation alarms are signaled with a flashing light and loud sound. The IP65 rating enables operation in a wide range of environments.

RADIATION DETECTION PERFORMANCE

The TSA PM700 is available with PVT gamma radiation detectors and optional B10 or He-3 neutron detectors. Radiation detection performance meets the requirements of ANSI N42.35 and IEC 62244. SNM detection capability complies with ASTM C1169 for detecting HEU and Pu-239.

REMOTE OVERSIGHT

The TSA PM700 is compatible with Rapiscan remote oversight devices, which enable the radiation inspection operation to be overseen from a remote facility. The TSA AM270 local alarm box signals alarms in a nearby guard booth. The TSA RAVEN™ digital oversight system stores and displays inspection data and CCTV images obtained via a wired or wireless network.



TSA RAVEN™ (Radiation Alarm and Video Event Notification) communications software is used remotely to assist response personnel in the field to pinpoint radioactive sources. RAVEN can monitor multiple detectors and aid in managing individual detector activity.

TSA PM700

PHYSICAL SPECIFICATIONS

Operating Configuration	Walk-through pedestrian monitor
Pillars	Master and slave pillar
Standard Pillar Spacing	35in (88.9cm)
Overhead Crossover	2 plastic conduits for power and data cables
Radiation Detectors	Four gamma radiation detectors (2/pillar)
Gamma Detector Material	Polyvinyltoluene (PVT) plastic scintillator
Gamma Detector Size	35in H x 10in W x 1.5in D (88.9cm x 25.4cm x 4cm)
Gamma Detector Volume	34.4 liters total detector volume
Pillar Internal Dimensions	84in H x 26in W x 8in D (203cm x 66cm x 20cm)
Pillar Weight	400 lbs (182kg)

PERFORMANCE SPECIFICATIONS

Gamma Radiation Detection	Meets ANSI N42.35 and IEC 62244
SNM Detection	3g HEU or 0.08g Pu239 per ASTM C1169 Cat III
False Alarm Rate	Typically less than 1 in 1,000 passages

OPERATION

Inspection Mode	Walk through
Inspection Speed	3.9ft/s (1.2m/s) nominal
Occupancy Sensors	IR and radar sensors
Radiation Alarms	Flashing light and audible alarm
Tamper/Fault Alarm	Amber light
Main Power	90-240VAC, 50-60Hz
Backup Power	Rechargeable lead acid battery for 8 hr operation
Ports	RS232, Ethernet

ENVIRONMENT/SAFETY

Temperature	-20°C to 50°C
Humidity	5 to 95% non-condensing
Environmental Protection Standards	IP65 CE

OPTIONS

Optional Gamma Detectors	Larger gamma detectors for higher sensitivity
Neutron Detectors	2 B10 detectors (1/pillar)
Optional Neutron Detectors	4 He-3 detectors (2/pillar)
Overhead Neutron Detector	1 B10 or 2 He3 detector in overhead structure
Neutron Detection	Meets ANSI N42.35 and IEC 62244
SNM Detection	100g Pu239 per ASTM C1169 Cat NII
Overhead Crossover	Box structure
Optional Pillar Spacing	Different spacing for specific applications
Remote Oversight	TSA AM270 local alarm box, TSA RAVEN™, RTDC
Remote Access	Serial Port

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STANDARD FEATURES

- Gamma Radiation Detection
- Standard Pillar Separation
- Overhead Conduits

DEFINITIONS

- Gamma Detection - For the detection of ionizing radiation.
- Neutron Detection - Typically used to detect Special Nuclear Materials (SNM).
- Gamma and Neutron Detection - For full spectrum detection capabilities.

OPTIONS

- Neutron Radiation Detection
- Large Gamma Detectors
- Box Crossover
- Different Pillar Separation
- Remote Oversight
- Serial port

*For neutron detection please contact your sales representative to determine availability and quantity of He3 tubes.

*ASTM Standard C 1236 and 1169 are available for purchase from The American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428 (610) 832-9585

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COMPACT PEDESTRIAN RADIATION PORTAL MONITOR

AUTOMATED WALK-THROUGH
INSPECTION

SMALL FOOTPRINT

EASY TO INSTALL.

COST EFFECTIVE

MARKETS

- Aviation
- Critical Infrastructure
- Customs and Border Control
- Event Security
- Law Enforcement
- Defense

TSA PM702



THE TSA PM702 PERSONNEL PORTAL MONITOR WAS DESIGNED FOR MONITORING APPLICATIONS THAT REQUIRE LESS SENSITIVITY OR FOR SITUATIONS THAT REQUIRE A SEMI-PORTABLE MONITOR.

While it has adequate sensitivity for security applications, it is primarily designed for use in hospitals, laboratories, and other locations where radioactive Special Nuclear Materials (SNM) need to be monitored.

COST EFFECTIVE, RELIABLE DETECTION

The TSA PM702 portal monitor is a highly reliable system for the radiometric protection of special nuclear material (SNM). It exceeds the criteria for an ASTM Standard C 1169 Category II* SNM monitor which will detect 10 grams of 235U (HEU) on a walk-through basis when using the stop feature.

FLEXIBLE DESIGN

The TSA PM702 is suitable for indoor or outdoor installation. The system consists of three main components; two vertical pillars each containing an organic plastic scintillator detector, and a crossover pillar. An optional step through feature provides optimal SNM monitoring.

EASY-TO-OPERATE AND MANAGE

A numeric keypad alarm with an LCD display attaches to the pillar and provides both audible and visual alarm indicators. The system operates from an internal battery. Under normal conditions the memory should be adequate to store data for at least 3 months of operation.

INTERFACE OPTIONS

The TSA PM702 is compatible with TSA RAVEN™ communications software designed to both capture and view data and video images relating to a radiological detection incident.



TSA PM702

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PHYSICAL SPECIFICATIONS

Sensitivity	Will detect 10g 235U (HEU) or 0.30g 239Pu; when tested in accordance with ASTM Standard C 1169 Category II* for pedestrian SNM monitors.
Detectors	One, 72 h x 3 w x 3 d in. (183 x 8 x 8 cm) organic plastic scintillator detector per pillar; provides approximately 1,296 in ³ (21.2 liters) of detector volume per system.
Alarm Level	N* sigma, entered from the numeric keypad
False Alarm Rates	Typically less than 1 in 1,000 passages
Alarm Indication	Audible and visual alarms
Display	LCD, 4 lines x 20 characters
Communications	Serial Port (optional)
Data Storage	Battery backed RAM (128 KB) is used to store average hourly background data and alarm data. Under normal conditions the memory should be adequate to store data for at least 3 months of operation.
Power Requirements	90 - 240 Vac, 50 - 60 Hz, or 6 alkaline D cells which provide approximately 12 hours of operation.
Dimensions	Overall size: 93 h x 53 w x 9 d in. (236 x 135 x 23 cm) The system consists of three main components; two vertical pillars, each one is 6 diameter x 83 h in. (15 x 211 cm), with 6 in. diameter (15 cm) crossover which provides 32 in. (81 cm) pillar spacing.
Weight	≈120 lbs (54 kg) per pillar

*ASTM Standard C 1169 is available from The American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428 (610) 832-9585 www.astm.org.

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STANDARD FEATURES

- Gamma Detection
- Programmable Detection Parameters
- Audio and Visual Indicators
- Relay Outputs for User Interface
- Universal Power Supply
- Ethernet Connectivity
- Battery Backup
- TSA RAVEN™ Compatible

OPTIONS

- TSA RAVEN™ Communications Software
- Serial Port
- Step Through Grate

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TRANSPORTABLE PEDESTRIAN RADIATION PORTAL MONITOR

AUTOMATED WALK-THROUGH
INSPECTION

RAPID, TEMPORARY
DEPLOYMENT

EMERGENCY RESPONSE

SECURITY INSPECTION AT
EVENTS

MARKETS

- Aviation
- Critical Infrastructure
- Customs and Border Control
- Event Security
- Law Enforcement
- Defense



THE RAPISCAN PM704 TRANSPORTABLE PERSONNEL MONITOR IS THE SOLUTION OF CHOICE FOR TEMPORARY RADIATION INSPECTION APPLICATIONS.

It is ideal for inspecting people gathered at events, such as sporting venues, political conferences or government functions. First responders can quickly transport the PM704 to a site and be ready to inspect people for radiation contamination. It also serves as a backup pedestrian monitor when additional inspection capacity is needed.

REQUIRED DETECTION PERFORMANCE

The PM704 is a compact and lightweight system that delivers the required radiation detection performance for effective personnel inspection. Large collimated PVT gamma detectors are housed in the vertical pillars. The PM704 meets the requirements of US and international pedestrian inspection standards, as well as the US FEMA standard for radiological emergency response.

ATTRACTIVE RUGGED DESIGN

The PM704, which is suitable for indoor or outdoor installations, meets the IP65 environmental requirements. The attractive design is also rugged and able to withstand repeated uses with minimum maintenance.

EASY TO STORE AND DEPLOY

When not in use, the PM704 is safely stored in its protective case, which can easily be moved to wherever an inspection is needed. Once at the site, the unit is quickly assembled and ready to begin inspecting in a few minutes. The PM704 consists of just a few components—two vertical pillars, a horizontal top crossover between the pillars and foot plates for stability—that require no special tools to assemble.

TSA PM704

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PHYSICAL SPECIFICATIONS

Operating Configuration	Walk-through pedestrian monitor
Radiation Detectors	Two gamma radiation detectors
Gamma Detector Material	Polyvinyltoluene (PVT) plastic scintillator
Gamma Detector Size	72in H x 3in W x 1.5in D (182cm x 8cm x 4cm)
Gamma Detector Volume	10.6 liters total detector volume
Controller	Integrated in horizontal crossover
Controller Display	4x20 character alphanumeric LCD display
External Dimensions	88in H x 40in W x 14in D (224cm x 102cm x 36cm)
Internal Dimensions	80in Hx32in W (206cmx76cm); ADA compliant
Weight	90 lbs (41kg)

PERFORMANCE SPECIFICATIONS

Gamma Radiation Detection	Meets ANSI N42.35 and IEC 62244
Emergency Response	Meets FEMA-REP-21 for radiation detection
False Alarm Rate	Typically less than 1 in 1,000 passages

OPERATION

Inspection Mode	Walk-through
Inspection Speed	3.9ft/s (1.2m/s) nominal
Ready Light	Green ready light signals OK to proceed
Alarms	Flashing lights and audible alarm
Main Power	90-240VAC, 50-60Hz
Backup Power	8 alkaline D cells for 10 hours of operation

OPERATING ENVIRONMENT

Temperature	-20°C to 50°C
Humidity	5 to 95% non-condensing
Environmental Protection	IP65

STORAGE

Storage Configuration	Disassembled in storage case
Storage Case	Hard-sided transport case with wheels

OPTIONS

Remote Oversight	Rapiscan RAVEN™, RTDC
Remote Access	Serial Port

STANDARD FEATURES

- Gamma Radiation Detection
- Storage Case

OPTIONAL FEATURES

- Rapiscan RAVEN™ compatible
- Rapiscan RTDC compatible
- Serial port

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LARGE VEHICLE RADIATION PORTAL MONITOR

DRIVE-THROUGH VEHICLE
MONITOR

AUTOMATED INSPECTION
OPERATION

GAMMA AND NEUTRON
RADIATION DETECTION

PROVEN IN HUNDREDS OF
DEPLOYMENTS WORLDWIDE

MARKETS

- Aviation
- Critical Infrastructure
- Customs and Border Control
- Defense
- Nuclear Facilities
- Ports

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TSA TM850



THE RAPISCAN TSA TM850 IS A PORTAL MONITOR FOR RADIATION INSPECTION OF LARGE VEHICLES AND TRAINS, ESPECIALLY WITH DENSE CARGO.

It is ideal for screening vehicles at border crossings, seaports, airports, critical infrastructure and nuclear facilities. Vehicles are automatically inspected as they drive between the pillars of the monitor. The TSA TM850 is a standalone device with all the features and capabilities required for effective radiation inspection.

DESIGN

The two pillars of the TSA TM850 are separated by more than 5m. They house the radiation detectors and electronics, including the system controller and occupancy sensors. Operating parameters are easily input with the touchpad on the controller. A rechargeable backup battery supports 8 hours of operation if the main AC power fails. A light indicates a tamper or fault condition.

OPERATION

The TSA TM850 continuously measures the background radiation and signals background alarm conditions. When the occupancy sensors detect a person approaching the monitor, it automatically switches to inspection mode. Radiation alarms are signaled with a flashing light and loud sound. The IP65 rating enables operation in a wide range of environments.

RADIATION DETECTION PERFORMANCE

The TSA TM850 is available with PVT gamma radiation detectors and optional B10 or He-3 neutron detectors. Radiation detection performance meets the requirements of ANSI N42.35 and IEC 62244. The TSA TM850 is designed to detect SNM, including HEU and Pu-239.

REMOTE OVERSIGHT

The TSA TM850 is compatible with Rapiscan remote oversight devices, which enable the radiation inspection operation to be overseen from a remote facility. The TSA AM270 local alarm box signals alarms in a nearby guard booth. The TSA RAVEN™ digital oversight system stores and displays inspection data and CCTV images obtained via a wired or wireless network.



TSA RAVEN™ (Radiation Alarm and Video Event Notification) communications software is used remotely to assist response personnel in the field to pinpoint radioactive sources. RAVEN can monitor multiple detectors and aid in managing individual detector activity.

TSA TM850

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PHYSICAL SPECIFICATIONS

Operating Configuration	Drive-through vehicle monitor
Pillars	Master and slave pillar
Standard Pillar Spacing	19.7ft (6m)
Radiation Detectors	Four gamma radiation detectors (2/pillar)
Gamma Detector Material	Polyvinyltoluene (PVT) plastic scintillator
Gamma Detector Size	48in H x 12in W x 1.5in D (121.9cm x 30.5cm x 4cm)
Gamma Detector Volume	56.6 liters total detector volume
Pillar External Dimensions	160 in H x 48in W x 10 in D (406cm x 122cm x 25cm)
Pillar Weight	1,100 lbs (500kg)

PERFORMANCE SPECIFICATIONS

Gamma Radiation Detection	Meets ANSI N42.35 and IEC 62244
SNM Detection	200g HEU or 3g Pu239
False Alarm Rate	Typically less than 1 in 1,000 passages

OPERATION

Inspection Mode	Drive through
Inspection Speed	5mph (8km/h) nominal
Occupancy Sensors	IR and radar sensors
Radiation Alarms	Flashing light and audible alarm
Tamper/Fault Alarm	Amber light
Main Power	90-240VAC, 50-60Hz
Backup Power	Rechargeable lead acid battery for 8 hr operation
Ports	RS232, Ethernet

OPERATING ENVIRONMENT

Temperature	-34°C to 50°C
Humidity	5 to 95% non-condensing
Environmental Protection Standards	IP65

OPTIONS

Optional Gamma Detectors	Larger gamma detectors for higher sensitivity
Neutron Detectors	B10 detectors - 4 (2/pillar) or 8 (4/pillar)
Optional Neutron Detectors	He ³ detectors - 8 (4/pillar) or 16 (8/pillar)
Neutron Detection	Meets ANSI N42.35 and IEC 62244
SNM Detection	200g Pu239 shielded to less than 1% gamma flux
Alarm Characterization	Alarm classification or alarm identification
Interface Electrical Panel	Electrical panel for control of external devices
Remote Oversight	TSA AM270 local alarm box, TSA RAVEN™, RTDC
Remote Access	Serial Port

*For neutron detection please contact your sales representative to determine availability and quantity of He³ tubes.

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STANDARD FEATURES

- Gamma Radiation Detection

DEFINITIONS

- Gamma Detection - For the detection of ionizing radiation.
- Neutron Detection - Typically used to detect Special Nuclear Materials (SNM).
- Gamma and Neutron Detection - For full spectrum detection capabilities.

OPTIONS

- Neutron Radiation Detection
- Large Gamma Detectors
- Remote Oversight
- Serial port
- Pillar Pedestals

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VEHICLE RADIATION PORTAL MONITOR

DRIVE-THROUGH VEHICLE
MONITOR

AUTOMATED INSPECTION
OPERATION

GAMMA AND NEUTRON
RADIATION DETECTION

PROVEN IN HUNDREDS OF
DEPLOYMENTS WORLDWIDE

MARKETS

- Aviation
- Critical Infrastructure
- Customs and Border Control
- Defense
- Nuclear Facilities
- Ports

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TSA VM250



THE RAPISCAN TSA VM250 IS A PORTAL MONITOR FOR RADIATION INSPECTION OF VEHICLES.

It is designed to screen automobiles, vans, small and lightly loaded trucks. The TSA VM250 is ideal for screening vehicles at border crossings, seaports, airports, critical infrastructure and nuclear facilities. Vehicles are automatically inspected as they drive between the pillars of the monitor. The TSA VM250 is a standalone device with all the features and capabilities required for effective radiation inspection.

DESIGN

The two pillars of the TSA VM250 are separated by up to 5m. They house the radiation detectors and electronics, including the system controller and occupancy sensors. Operating parameters are easily input with the touchpad on the controller. A rechargeable backup battery supports 8 hours of operation if the main AC power fails. A light indicates a tamper or fault condition.

OPERATION

The TSA VM250 continuously measures the background radiation and signals background alarm conditions. When the occupancy sensors detect a vehicle approaching the monitor, it automatically switches to inspection mode. Radiation alarms are signaled with a flashing light and loud sound. The IP65 rating enables operation in a wide range of environments.

RADIATION DETECTION PERFORMANCE

The TSA VM250 is available with PVT gamma radiation detectors and optional B10 or He-3 neutron detectors. Radiation detection performance meets the requirements of ANSI N42.35 and IEC 62244. The TSA VM250 is designed to detect SNM, including HEU and Pu-239.

REMOTE OVERSIGHT

The TSA VM250 is compatible with Rapiscan remote oversight devices, which enable the radiation inspection operation to be overseen from a remote facility. The TSA AM270 local alarm box signals alarms in a nearby guard booth. The TSA RAVEN™ digital oversight system stores and displays inspection data and CCTV images obtained via a wired or wireless network.



TSA RAVEN™ (Radiation Alarm and Video Event Notification) communications software is used remotely to assist response personnel in the field to pinpoint radioactive sources. RAVEN can monitor multiple detectors and aid in managing individual detector activity.

TSA VM250

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PHYSICAL SPECIFICATIONS

Operating Configuration	Drive-through vehicle monitor
Pillars	Master and slave pillar
Standard Pillar Spacing	177 in (45 cm)
Radiation Detectors	Four gamma radiation detectors (2/pillar)
Gamma Detector Material	Polyvinyltoluene (PVT) plastic scintillator
Gamma Detector Size	30in H x 6in W x 1.5in D (76.2cm x 15.2cm x 4cm)
Gamma Detector Volume	35.4 liters total detector volume
Pillar External Dimensions	120in H x 26in W x 8in D (305cm x 66cm x 20cm)
Pillar Weight	300 lbs (136kg)

PERFORMANCE SPECIFICATIONS

Gamma Radiation Detection	Meets ANSI N42.35 and IEC 62244
SNM Detection	1000g HEU or 10g Pu239
False Alarm Rate	Typically less than 1 in 1,000 passages

OPERATION

Inspection Mode	Drive through
Inspection Speed	5mph (8km/h) nominal
Occupancy Sensors	IR and radar sensors
Radiation Alarms	Flashing light and audible alarm
Tamper/Fault Alarm	Amber light
Main Power	90-240VAC, 50-60Hz
Backup Power	Rechargeable lead acid battery for 8 hr operation
Ports	RS232, Ethernet

OPERATING ENVIRONMENT

Temperature	-34°C to 50°C
Humidity	5 to 95% non-condensing
Environmental Protection	IP65
Standards	CE

OPTIONS

Optional Gamma Detectors	Larger gamma detectors for higher sensitivity
Neutron Detectors	2 B10 detectors (1/pillar)
Optional Neutron Detectors	4 He ³ detectors (2/pillar)
Neutron Detection	Meets ANSI N42.35 and IEC 62244
SNM Detection	200g Pu239 shielded to less than 1% gamma flux
Alarm Characterization	Alarm classification or alarm identification
Pedestals	1m tall pillar pedestals
Interface Electrical Panel	Electrical panel for control of external devices
Remote Oversight	TSA AM270 local alarm box, TSA RAVEN™, RTDC
Remote Access	Serial Port

*For neutron detection please contact your sales representative to determine availability and quantity of He³ tubes.

*ASTM Standard C 1236 is available for purchase from The American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428 (610) 832-9585

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STANDARD FEATURES

- Gamma Radiation Detection

DEFINITIONS

- Gamma Detection - For the detection of ionizing radiation.
- Neutron Detection - Typically used to detect Special Nuclear Materials (SNM).
- Gamma and Neutron Detection - For full spectrum detection capabilities.

OPTIONS

- Neutron Radiation Detection
- Large Gamma Detectors
- Alarm Characterization
- Remote Oversight
- Serial port
- Pillar Pedestals

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REMOTE OVERSIGHT OF RADIATION INSPECTION

DISPLAY AND STORE
INSPECTION DATA

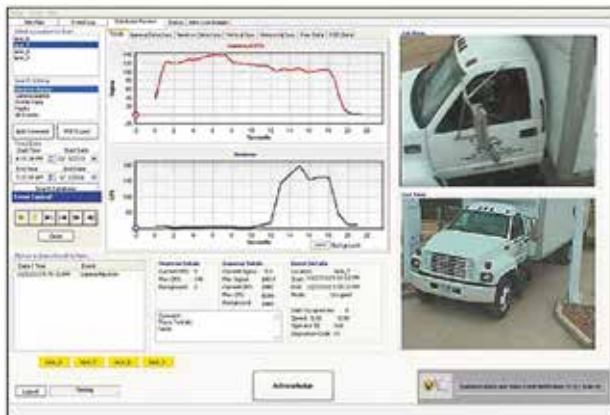
DISPLAY CCTV IMAGES

SUPPORT RESPONSE TO
RADIATION ALARM

OPERATOR-FRIENDLY

MARKETS

- Aviation
- Critical Infrastructure
- Customs and Border Control
- Defense
- Event Security
- Law Enforcement
- Ports



TSA RAVEN™ (RADIATION ALARM AND VIDEO EVENT NOTIFICATION) COMMUNICATIONS SOFTWARE IS DESIGNED TO BOTH CAPTURE AND VIEW DATA AND VIDEO IMAGES RELATING TO A RADIOLOGICAL DETECTION INCIDENT.

RAVEN stored data and video can be used in the rapid identification of the location of radioactive substances.

Using TSA RAVEN, a thorough review of the incident can be performed remotely and any identifying information can be relayed to response personnel in the field for possible secondary inspection or other interdiction. With TSA RAVEN monitoring software, the remote operator can assist in pinpointing the radioactive source saving time for personnel doing secondary inspections.

ADVANCED MONITORING FEATURES

TSA RAVEN continuously monitors the system controller in the Radiation Detector monitor for any changes. The Central Alarm Station (CAS) operators will be alerted upon any controller change and can view original and new settings. RAVEN can monitor multiple systems and can simultaneously present data for each monitored location on screen. The live video feeds allows the operator to view activity at each monitor location.

OPTIONAL CONFIGURATIONS

Local Alarm Stations (LAS) can be configured to only display information that will be useful to the local user. The Central Alarm Station (CAS) can be configured to display much more detailed information that is useful for alarm trending and other data analysis. Multiple LAS or CAS locations can easily be established and through the use of wireless routers these locations can be mobile. Multi-layered password protection will restrict unauthorized access to sensitive data or video and will protect the privacy of innocent individuals.

SOFTWARE FEATURES

Alarm Priority: Prioritized alarms to easily identify the most critical first.

Recall Events: Archived events easily recalled using query options.

Analysis Graphs: Graphs of background radiation levels are available to analyze monitor conditions.

Access Restrictions: Easy workstation configuration to limit access.

Site Audio Requirements: Audio announcement can be tailored to exact site requirements.

Fault Conditions: System status indicators help users identify fault conditions.

Operation: System automatically resumes normal operation after clearing of fault conditions.

Video Analysis: Single click to expand video images to full screen for easier analysis.

Language: Alarm comments can be entered in the operator's native language.



TSA RAVEN™



Using the TSA RAVEN database review screen with search criteria blocks enabled the system administrator has the ability to track any changes that may have occurred with a particular system.

The frame by frame data and video match-up allows a user to approximate the location of a radioactive source within a vehicle.

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STANDARD COMPONENTS

- RAVEN Software
- Servers
- Monitor
- Switch
- UPS
- KVM Switch
- Keyboard (US English)
- Mouse

OPTIONS

- Single Camera Package
- Dual Camera Package
- IR Illuminators
- Concentrator Software
- CAS Workstation
- IAS Workstation
- Camera Enclosures
- Media Converters
- Printer

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NORM REJECTION
AND ISOTOPE
IDENTIFICATION
CAPABILITIES
IMPROVE THE
EFFICIENCY AND
EFFECTIVENESS
OF RADIATION
INSPECTION
OPERATIONS.

ALARM CLASSIFICATION
DISCRIMINATES NORM

ALARM IDENTIFICATION
IDENTIFIES LIKELY ISOTOPE

AUTOMATED INSPECTION
ENHANCEMENTS

OPTIONS AVAILABLE WITH
RAPISCAN VEHICLE RADIATION
MONITORS

MARKETS

- Aviation
- Critical Infrastructure
- Customs and Border Control
- Event Security
- Defense
- Ports

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RAPISCAN ALARM CHARACTERIZATION



RAPISCAN ALARM CHARACTERIZATION TECHNOLOGY IMPROVES THE
EFFICIENCY AND EFFECTIVENESS OF VEHICLE RADIATION INSPECTION
OPERATIONS.

The real-time, state-of-the-art capabilities are implemented in the Alarm Classification and Alarm Identification options available with Rapiscan vehicle radiation portal monitor products. The addition of Alarm Classification capability increases inspection throughput and enables the operators to focus on finding radioactive materials of interest without the distraction of nuisance alarms due to Naturally Occurring Radioactive Materials (NORM). The identity of the detected radioactive material is available with the Alarm Identification capability.

ALARM CLASSIFICATION

Rapiscan's Alarm Classification technology uses enhanced electronics and Rapiscan proprietary software to distinguish and suppress alarms due to NORM. As a result, it minimizes time and effort wasted on evaluating nuisance alarms.

ALARM IDENTIFICATION

Rapiscan's Alarm Identification technology uses sodium iodide gamma detectors and Rapiscan proprietary software to identify the likely radioactive material that caused an alarm during radiation inspection. It automatically finds radioactive material threats, including Special Nuclear Materials and medical and industrial isotopes that can be used in a dirty bomb. Alarm identification reduces the need for a secondary inspection to identify radioactive materials.

RADIATION INSPECTION OPERATION

The Alarm Characterization technology is fully compatible with Rapiscan vehicle radiation monitors, which have been proven during years of reliable operation worldwide. The addition of this technology offers the practical benefit of decreasing the time and cost of vehicle radiation inspection. Operators require no special technical expertise to interpret the inspection results, which are displayed on easy to use Rapiscan remote alarm devices.

RAPISCAN ALARM CHARACTERIZATION

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ALARM CLASSIFICATION

NORM Discrimination	Detects Naturally Occurring Radioactive Material
NORM Alarm	Suppresses NORM alarms
Isotope Detection	Detects isotopes in standards
Standards	Meets ANSI N42.35 and IEC 62244
Operation	Real-time analysis during radiation inspection
Detection Probability	At least 98%
False Alarm Rate	Does not exceed 1/1,000
Alarm Indicators	Pillar and remote alarm units
Availability	Available on Rapiscan vehicle radiation monitors
Upgrade	Upgrade existing Rapiscan TSA vehicle monitors

SPECIFICATIONS

Prerequisite	Requires Alarm Classification Option
Industrial Isotopes	Identifies industrial isotopes in standards
Medical Isotopes	Identifies medical isotopes in standards
Special Nuclear Materials	Identifies Special Nuclear Materials in standards
Standards	Identifies ANSI N42.38 and IEC 62484 isotopes
Operation	Real-time analysis during radiation inspection
Detection Probability	At least 90% for isotopes in standards
Identification Probability	At least 80% for isotopes in standards
False Alarm Rate	Does not exceed 1/1,000
Alarm Indicators	Results indicated on Rapiscan TSA RAVENT™
Availability	Available on Rapiscan vehicle radiation monitors

OPERATING ENVIRONMENT

Operating Temperature	-34°C to 50°C
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STANDARD FEATURES

- Distinguish NORM
- Suppress NORM Alarms
- Meets Inspection Standards
- Compatible with Vehicle RPMs
- Option: Identify Likely Isotope

OPTIONS AND ACCESSORIES

- Alarm Identification requires Alarm Classification

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Product Group

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TRACE DETECTION



NON-RADIOACTIVE- BASED EXPLOSIVES AND NARCOTICS DETECTION

Simultaneous detection of explosive
and narcotics in eight seconds

Non-radioactive ion source

Automated internal calibration

Increased usability, improved
operational and detection accuracy

Remote monitoring capability
via Remote Connect™

Push-button, schedulable
automated maintenance

Patented regenerative dryer



USING A NON-RADIOACTIVE IONIZATION SOURCE AND SIMULTANEOUS, DUAL-MODE DETECTION, ITEMISER® 4DX CAN DETECT A BROAD RANGE OF CURRENT MARKET THREAT EXPLOSIVES AND NARCOTICS WITHOUT THE USE OF A RADIOACTIVE SOURCE, THEREBY ELIMINATING THE NEED FOR ANNUAL WIPE TESTS AND LICENSING WHILE REDUCING SHIPPING CHALLENGES.

The portable, ergonomic desktop unit features automated internal calibration to help decrease consumables cost, optimize ongoing equipment operation and increase detection accuracy.

COST EFFECTIVE

Automated internal calibration eliminates cost of purchasing and managing calibration traps.

Folding monitor screen automatically shuts off backlight to extend life of display.

Regenerative dryer increases uptime and eliminates cost of monthly dryer material replacements.

Decreases labor required to initiate and manage maintenance.

RELIABLE

Simultaneous dual mode detection by using one detector significantly decreases the possibility of mechanical failure associated with two detector systems.

Maintains a low, stable humidity level in the detector, allowing for consistent and reliable detection results.

Automatically saves test results, preventing deletions.

Robust internal solid-state hard drive for reliable data storage.

Optional maintenance reminders for all preventive requirements.

Advanced diagnostics to ensure maximum availability and performance.

EASE OF USE

Non-radioactive ionization source removes shipping restrictions and licensing requirements.

Built in printer for fast hard copy results or printing later.

Quick analysis and results in approximately 8 seconds.

On-board software keypad and help files.

Automated, push-button maintenance can be scheduled.

Easily accessible maintenance items.

Ability to create custom substance libraries.

EASY-TO-USE OPERATOR INTERFACE

Results require minimal interpretation, allowing operators to concentrate on sample acquisition.

Onboard computer automatically logs all data, including time, date, sample analysis and system status.

A comprehensive history of saved data and alarm files can be recalled and printed.

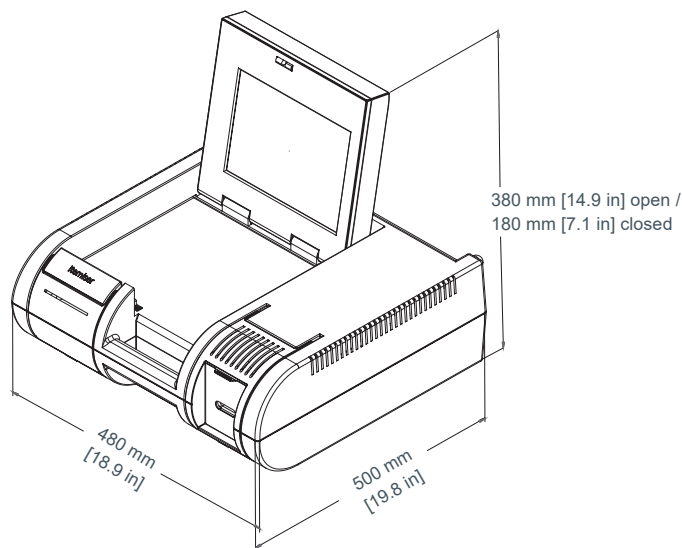
PORTABILITY

Lightweight (28.65 lb/12.99 kg) with built-in handle for easy transport.

Internal, one-hour battery allows instrument relocation without shut off, eliminating warmup time.

ITEMISER® 4DX

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PHYSICAL SPECIFICATIONS

Dimensions: Length: 500 mm (19.8 in.) open/ 460 mm (18 in.) closed
Width: 480 mm (18.9 in.)
Height: 380 mm (14.9 in.) open/ 180 mm (7.1 in.) closed
Weight (Approx.): Net: 12.99 Kg (28.65 lbs)

TECHNICAL SPECIFICATIONS

Detector Type: Ion Trap Mobility Spectrometer (ITMS™)
Analysis Time: Default 8 seconds
Sample Acquisition: Surface wipe
Warmup Time (Cold Start): Allow approximately 30 minutes for system to stabilize
Operating Temperature: -10 to 55°C (14 to 131 °F) IP20 protection rating
Power: External AC to DC Power Supply: 100-240 VAC, ~1.8 Amps, 47-63 Hz input,
15 VDC output, 10 Amps, 150W
Battery Backup: Up to 60 minutes
Computer: Hard Drive: 120 gigabytes
Operating System: Linux
Display: 10.4 in (26.4 cm) TFT-LCD monitor with resistive touch screen
Signal Processing: Recognition on multiple peaks and explosives; output to 4 different display types,
including bar graph display or time-of-flight plasmagram display
Detection Modes: Explosives and Narcotics Detection or Dual Mode Detection
Data Transfer Capability: Two USB 2.0 ports; Ethernet port

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EXPLOSIVES DETECTION IN A DESKTOP SYSTEM

Meets rigorous U.S. TSA
detection specifications

Patented regenerative dryer

Automated calibration with
optional verification

Onboard computer automatically
handles all data logging

Intuitive touch screen menus on
a graphical user interface

Lightweight (26.5 lb/ 12 kg) with
built-in handle for easy transport



ITEMISER® DX

SIMULTANEOUSLY DETECTS POSITIVE AND NEGATIVE IONS USING A SINGLE DETECTOR.

Itemiser® DX simultaneously detects positive and negative ions using a single detector and leveraging Rapiscan® Systems patented ITMS™ technology.

Itemiser® DX delivers fast explosives and narcotics detection in a package that is ergonomic and portable.

COST EFFECTIVE

Folding monitor screen automatically shuts off backlight to extend life of display.

New long life positive ion dopant reduces cost of operation and maintenance.

RELIABLE

Simultaneous dual mode detection eliminates the need for two detectors, which significantly decreases the possibility of mechanical failure associated with two detector systems.

Maintains a low, stable humidity level in the detector, allowing for consistent and reliable detection results.

Automatically saves test results, preventing deletions.

Robust internal solid-state hard drive for reliable data storage.

ADVANCED DATA FEATURES

Results require minimal interpretation, allowing operators to concentrate on sample acquisition.

A comprehensive history of saved data and alarm files can be recalled and printed at any time.

EASE OF USE PROVIDING HIGHEST THROUGHPUT

Built-in thermal printer for fast hard copy results or printing later.

Quick analysis and results in approximately 8 seconds.

Easily achievable software upgrades via on-board USB ports.

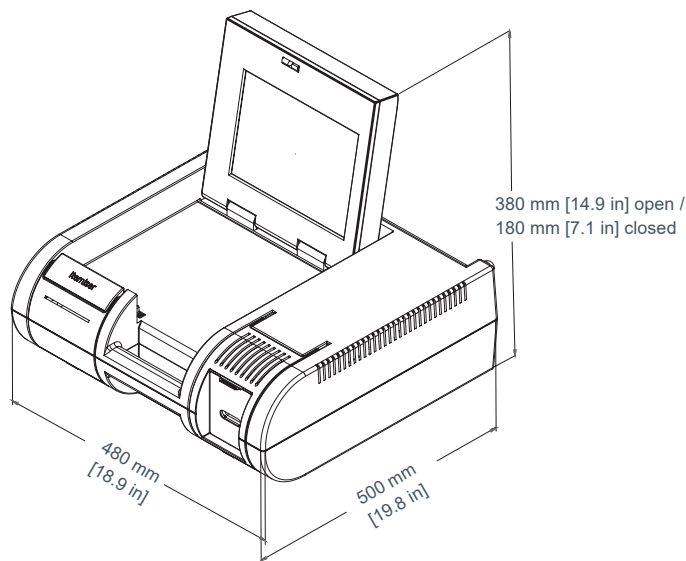
PORTABILITY

Internal, one-hour battery allows instrument relocation without having to shut it off, eliminating warmup time.

ITEMISER® DX

Rapiscan®
systems

An OSI Systems Company



PHYSICAL SPECIFICATIONS

Dimensions: Length: 500 mm (19.8 in.) open/ 460 mm (18 in.) closed
Width: 480 mm (18.9 in.)
Height: 380 mm (14.9 in.) open/ 180 mm (7.1 in.) closed
Weight (Approx.): Net: 12.02 Kg (26.5 lbs)

TECHNICAL SPECIFICATIONS

Detector Type: Ion Trap Mobility Spectrometer (ITMS™)
Analysis Time: Default 8 seconds
Sample Acquisition: Surface wipe
Warmup Time (Cold Start): Allow approximately 30 minutes for system to stabilize
Operating Temperature: 0 to 40°C (32 to 104°F) IP20 protection rating
Power: AC Input: 100-120 VAC, 200-240 VAC, 47-63 Hz, 150W
DC Input: 11-18 VDC input, 10A (150W) max
Battery Backup: Up to 60 minutes of standby time
Computer: 80 GB Hard Drive
Display: 10.4 in (26.4 cm) TFT-LCD monitor with resistive touch screen
Signal Processing: Recognition on multiple peaks and explosives; output to 4 different display types, including bar graph display or time-of-flight plasmagram display
Detection Capability: Explosives and Narcotics Detection
Data Transfer Capability: Two USB 2.0 ports; Ethernet port

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EXPLOSIVES AND NARCOTICS DETECTION IN A DESKTOP SYSTEM

World's first simultaneous dual-mode
explosives and narcotics detector

Can detect a wide range of
targeted substances

Results in as little as 8 seconds

Easy to learn and operate

Expandable libraries

A comprehensive history of
saved data and alarm files can
be recalled and printed

ITEMISER®3 ENHANCED



RAPISCAN® SYSTEMS FLEXIBLE, LIGHTWEIGHT DESKTOP DETECTOR
SIMULTANEOUSLY ANALYZES BOTH POSITIVE AND NEGATIVE IONS,
ALLOWING FOR ADVANCED EXPLOSIVE AND NARCOTIC CONTRABAND
DETECTION.

The Itemiser® 3 Enhanced is the first trace detector in the world to simultaneously detect positive and negative ions, enabling the detection of a broad range of explosives and narcotics. Detection of both positive and negative ions allows for effective identification from a single sample. It delivers fast, simultaneous explosives and narcotics detection in a package that is ergonomic and portable.

SIMULTANEOUS DUAL-MODE DETECTION

In recent years, the arsenal of explosives used by terrorist groups has expanded beyond the range of substances easily detected by instruments utilizing traditional Ion Mobility Spectrometry (IMS) technology. Traditional IMS instruments operate in either positive or negative mode, but not both modes simultaneously.

While negative mode operation detects the majority of explosives, certain explosives are detected in positive mode. Therefore to rule out the presence of all explosives, conventional IMS detectors require operators to sample and test using two separate detectors.

EASILY TRANSPORTED AND FLEXIBLE DESKTOP TRACE DETECTION

The Itemiser® 3 Enhanced was designed with portability and flexibility in mind. This unit offers a compact footprint, folding touch screen, easy-carrying handle, a 60-minute battery backup, and the potential to be relocated quickly.

- **Particle swipe:** Reusable sample traps are swiped across a surface and then inserted into the Itemiser® 3 Enhanced for analysis. Typical surfaces include baggage, cargo, vehicles, containers, tickets, and ID cards.
- **Optional vacuum sampling:** An optional vacuum sampler draws vapors into a sponge-like sample trap, which is then inserted into the Itemiser® 3 Enhanced for analysis. Applications include cargo containers, car trunks, and luggage.

EASY-TO-USE OPERATOR INTERFACE

Results require minimal interpretation, so operators may concentrate on obtaining a good sample. Itemiser® 3 Enhanced's onboard computer automatically handles all data logging, including time, date, and sample analysis for each alarm. A complete history of saved data and alarm files can be recalled and printed at any time.

SENSITIVITY/SELECTIVITY

Patented ITMS™ technology helps increase ion population, enabling detection of microscopic traces of explosives and narcotics.

Patented switching mechanism simultaneously detects positive and negative ions, enabling the detection of a broad range of explosives, while also detecting narcotics.

VERSATILE

Remote monitoring capable.

Detects both explosives and narcotics.

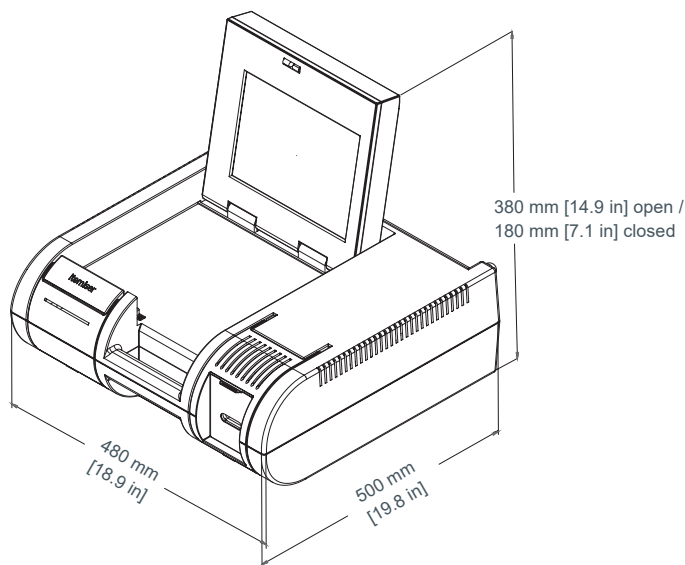
Semi-permeable membrane excludes dust and dirt to allow continued operation in environments that have high traffic, humidity or contamination.

Expandable libraries to accommodate unique user requirements.

Three default user levels (operator, maintenance and administrator) for greater access control.

ITEMISER®3 ENHANCED

Rapiscan®
systems
An OSI Systems Company



PHYSICAL SPECIFICATIONS

Dimensions:	Length: 500 mm (19.8 in.) open/ 460 mm (18 in.) closed Width: 480 mm (18.9 in.) Height: 370 mm (14.9 in.) open/ 180 mm (7.1 in.) closed
Handwand Dimensions:	Length: 500 mm (19.8 in.) open/ 460 mm (18 in.) closed Width: 480 mm (18.9 in.) Height: 370 mm (14.9 in.) open/ 180 mm (7.1 in.) closed
Optional Vacuum Sampling Unit: Weight (Approx.):	L x W x H: 500 mm (19.8 in.) W: 480 mm (18.9 in.) H: 370 mm (14.9 in.) Net: 12.02 Kg (26.5 lbs)

TECHNICAL SPECIFICATIONS

Detector Type:	Ion Trap Mobility Spectrometer (ITMS™)
Analysis Time:	Default 8 seconds
Sample Acquisition:	Surface wipe or optional vacuum collection
Warmup Time (Cold Start):	Allow approximately 30 minutes for system to stabilize
Operating Temperature:	0 to 40°C (32 to 104°F) IP20 protection rating
Power:	AC Input: 100-120 VAC, 200-240 VAC, 47-63 Hz, 150W, 65W nominal DC Input: 11-18 VDC input Up to 60 minutes of standby time
Battery Backup:	80 BG Hard drive
Computer:	10.4 in (26.4 cm) TFT-LCD monitor with resistive touch screen
Display:	Recognition on multiple peaks and multiple controlled drugs and explosives Output to 4 different display types, including bar graph display or time-of-flight plasmagram display
Signal Processing:	Explosives (optimized negative ion mode); Narcotics (optimized positive ion mode)
Detection Modes:	Two USB 2.0 ports; Ethernet port
Data Transfer Capability:	

COST EFFECTIVE

Helps reduce capital investments by providing a single solution for both narcotics and explosives detection.

Patented regenerative dryer can eliminate the need for monthly dryer replacement, and may reduce maintenance downtime, and lower consumables cost.

Folding monitor screen automatically shuts off backlight to extend life of display.

RELIABLE

Automated calibration helps assure operational accuracy.

Maintains a low, stable, humidity level in the detector allowing for consistent and reliable detection results.

Automatically saves test results, preventing deletions.

EASE OF USE

On screen keyboard.

Touch screen menus on a graphical user interface can be easy to learn and operate.

Built in printer for fast hard copy results or printing at a later date.

Quick analysis and results in approximately 8 seconds.

Software upgrades can be easy to install.

Local language options available.

EASE OF USE

Lightweight (26.5 lb/ 12 kg) with built-in handles and soft case for easy transport.

Operates from a vehicle's 12 VDC power outlet.

Internal, one-hour battery allows instrument relocation without having to shut it off, eliminating warmup time.

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CARRY MORE DETECTION POWER

Simultaneous, dual-mode system for a broad range of explosives detection

Detects explosives and narcotics simultaneously in seconds

Flexible user interface with a wide range of operating levels

State-of-the-art battery for long life, hot swappable for continued operation

Ergonomic design for grab-and-go portability

Easy-to-access components for quick maintenance

Network ready/USB compliant

MOBILETRACE®



TO HELP KEEP AHEAD OF THE GROWING CHALLENGES OF EXPLOSIVES AND NARCOTICS DETECTION, THE MOBILETRACE® HANDHELD PACKS THE ADVANCED CAPABILITIES OF SIMULTANEOUS DUAL-MODE DETECTION INTO A POWERFUL, USER-FRIENDLY HANDHELD.

MobileTrace®, the first simultaneous dual-mode handheld detector, expands the range of target explosives you can identify in a single sample for faster, more comprehensive security screening. Rapiscan® Systems patented ITMS™ (Ion Trap Mobility Spectrometry) technology offers you the explosives and narcotics detection, sensitivity and reliability proven at military bases, border crossings, airports, and other critical security checkpoints around the world.

EASY OPERATION, RICH DISPLAYS

MobileTrace® graphical interface is intuitive and easy to learn for new operators. Itemiser® and EntryScan® users will find the operating system very familiar.

Data is evaluated on a 800 NIT 3.5 in. (8.9 cm) color screen using five display options:

- SelectScan for a simple list of alarm/no alarm status of substances in the library.
- Peaks view for a tabular form of time-of-flight and height of peaks detected.
- Plasmagram for a graphical representation of peaks detected.
- 3-D view and Intensity Map for analytical interpretation (not shown).

To accommodate a range of lighting situations, MobileTrace® is designed with adjustable display brightness.

VERSATILE

Three default user levels (operator, maintenance and administrator) for access control.

State-of-the-art networking capability and USB connectivity.

ITMS™ desktop software enables file management, analysis and printing.

Option to use substance codes instead of substance names for privacy and security.

Expandable libraries accommodate unique user requirements.

PARTICLE AND VAPOR SAMPLING

MobileTrace® gives you the flexibility to swipe surfaces for trace particles or to analyze vapors.

Particle swipe: MobileTrace® conveniently uses standard Rapiscan® Systems sample traps. The Teflon®-coated traps are swiped across a surface and inserted into the system for analysis. Typical sampling objects include clothing, skin, baggage, cargo, vehicles, containers, tickets and ID cards.

Vapor sampling: Vapors are drawn through a nozzle directly into the system for analysis. Typical sampling objects.

EASY TO USE

Touch screen with text or icon menus, 800 NIT 3.5 in. (8.9 cm) color, glare resistant display.

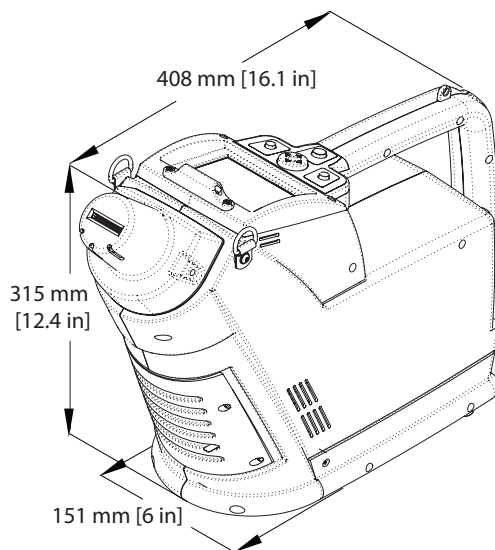
Navigation pad, touch screen keypad and optional keyboard.

Easy-to-learn graphical interface.

Semi-automated or manual calibration.

Easy access to components for efficient maintenance.

Many local language options available.



PHYSICAL SPECIFICATIONS

Dimensions:	Length: 409 mm (16.1 in.) Width: 152 mm (6 in.) Height: 315 mm (12.4 in.)
Handwand Dimensions:	Length: 279 mm (11 in.) Diameter: 28 mm (1.1 in.)
Weight (Approx.):	Net: 4.3 Kg (9.4 lbs) with battery/ .065 Kg (.875 lbs) handwand

TECHNICAL SPECIFICATIONS

Detector Type:	Ion Trap Mobility Spectrometer (ITMS™)
Analysis Time:	Default 10/11 seconds for particle mode explosives/narcotics; Default 10 seconds for vapor mode
Sample Acquisition:	Particle swipe or vapor sampling
Warmup Time (Cold Start):	Allow approximately 30 minutes for system to stabilize
Operating Temperature:	-10 to 55°C (14 to 131°F), up to 95% RH (non-condensing)
Power:	115/230 VAC, 50/60 Hz 12 VDC, vehicle adaptor (cable included) Two rechargeable Li-Ion batteries, up to four hours each, charger included Internal back-up batteries to maintain power while swapping batteries 1 GB or greater file storage capacity
Computer:	
Display:	800 NIT 3.5 in. (8.9 cm), transreflective QVGA color LCD Touch screen
Signal Processing:	Output to five different display types including substance listing, time-of-flight plasmagram and tabular displays, 3-D and Intensity Map
Detection Modes:	Explosives (optimized negative ion mode); Narcotics (optimized positive ion mode); Vapor mode
Data Transfer Capability:	Ethernet and USB connectivity

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THREAT DETECTOR FOR CHALLENGING ENVIRONMENTS

Detects CWAs, TICs, explosives,
precursors, narcotics and taggants

Designed for challenging
environments: extreme temperature,
dust, moisture, salt fog, and rain

Physical shock and vibration resistant

Tested to MIL-STD-810-G and IP54 rated

100% Buy American Act compliant

HARDENED MOBILETRACE[®]



HARDENED MOBILETRACE[®] IS BUILT AROUND A CORE OF FIELD-PROVEN EXPLOSIVES AND NARCOTICS DETECTION TECHNOLOGIES, AND DESIGNED FOR THE CHALLENGING ENVIRONMENTS IN WHICH YOU WORK. IT HAS BEEN TESTED TO MILITARY AND GOVERNMENT STANDARDS AND HAS EXPANDED CAPABILITIES FOR DETECTING CHEMICAL WARFARE AGENTS (CWAs) AND TOXIC INDUSTRIAL CHEMICALS (TICs).

We know your missions are different every time and the environments you encounter are tough and unpredictable. Hardened MobileTrace[®] can help you enhance the safety and success of your mission by screening for explosives, narcotics and other threats, that might otherwise go undetected.

Hardened MobileTrace[®] was designed to make advanced detection technology easy to use in the field. It is a highly portable and lightweight unit equipped with a daylight-readable touch screen for clear and immediate viewing in all lighting conditions. Users who are familiar with other Rapiscan[®] Systems products will recognize the straightforward software and instructions found common in the user interface across many of Rapiscan[®] Systems trace detectors.

DESIGNED FOR CHALLENGING ENVIRONMENTS

Ports and Border.

Military.

Law Enforcement.

RUGGEDIZED

Tested to MIL-STD-810-G.

IP54 Rated.

Temperatures range: -20°C to 55°C (-4°F to 131°F).

Humidity range: 0-95% RH non-condensing.

Salt fog resistant.

Drop and vibration tested.

PORTABLE

Lightweight.

Two batteries for up to six hours of operation.

Internal back up batteries for "hot swap" ability.

EXPANDED SUBSTANCE DETECTION

Tested and verified at government and third-party labs.

CWAs library: blood, blister, nerve.

TICs library: chlorides, cyanides, acids and ammonias.

EASY TO USE

Daylight readable touch screen (800 NIT).

Simple user interface and intuitive menus.

E-mail, and field service engineer technical support and troubleshooting 24/7.

Ergonomically designed for PPE operation.

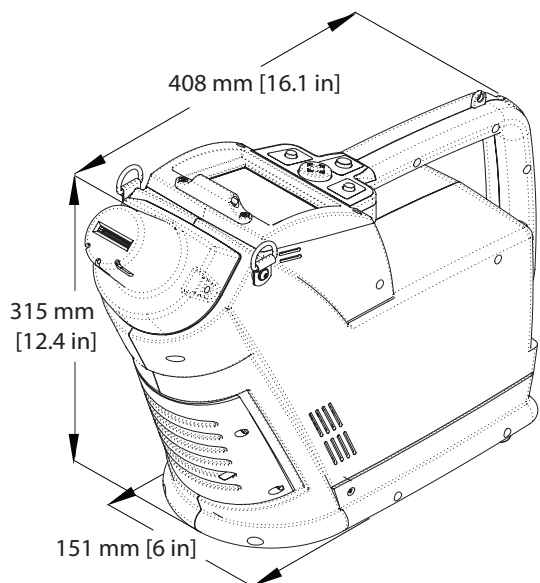
ACCURATE

False alarm rates <2%.

Results verified at third-party laboratories.

HARDENED MOBILETRACE®

Rapiscan®
systems
An OSI Systems Company



PHYSICAL SPECIFICATIONS

Dimensions:	Length: 438 mm (17.3 in.) Width: 159 mm (6.3 in.) Height: 324 mm (12.8 in.)
Weight (Approx.):	Net: 5.4 Kg (12 lbs) with battery

TECHNICAL SPECIFICATIONS

Detector Type:	Ion Trap Mobility Spectrometer (ITMS™); Nickel 63, 10 millicurie (370 MBq) strength
Analysis Time:	Less than 12 seconds
Sample Acquisition:	Particle swipe or vapor sampling
Warmup Time (Cold Start):	24 hours/ 30 minutes
Operating Temperature:	-20 to 55°C (-4 to 131°F)
Power:	115/230 VAC, 50/60 Hz External AC to DC power supply, DC vehicle power adapter, and main battery
Computer:	Windows® CE 5.0, 1 GB compact flash disk
Display:	3.5 in. (8.9 cm); color LCD, 800 NIT
Detection Modes:	Explosives, narcotics, TICs, CWAs
Environmental:	IP54, MIL-STD-810-G: resistant to blowing dust, rain, salt fog, vibration, physical shock

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WALK-THROUGH PORTAL FOR EXPLOSIVES AND NARCOTICS DETECTION

High sensitivity and high throughput

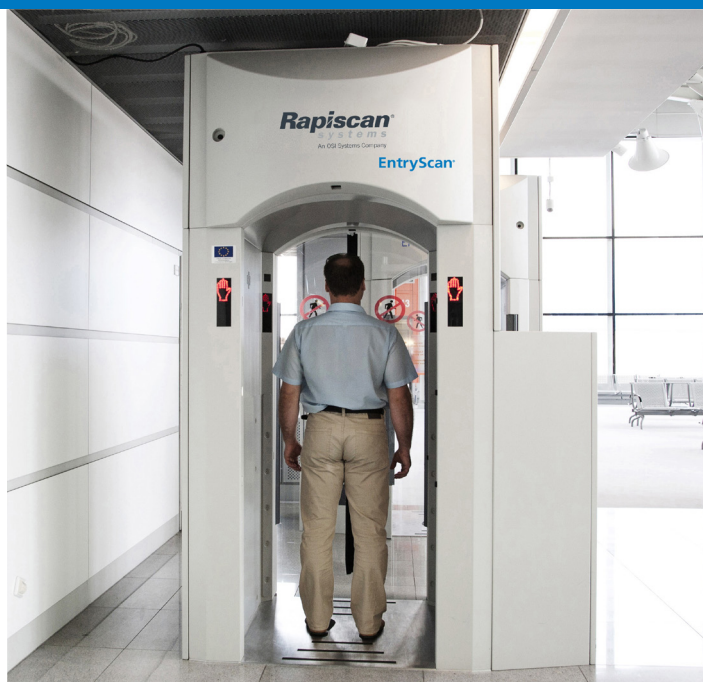
Can detect a wide range of explosives and narcotics in a single scan

Additional substances can be stored in the library

Analysis time is 13 seconds

Operator display can be on the left or right side

Small footprint at 92.5 in. x 57.4 in. x 40 in. (2349 mm x 1459 mm x 1016 mm)



A HIGH-SENSITIVITY, HIGH-THROUGHPUT SYSTEM, THE ENTRYSCAN® 4 PORTAL CAN DETECT A BROAD RANGE OF EXPLOSIVES AND NARCOTICS IN SECONDS.

Using patented technology, this compact, redesigned portal model, reduced in height for installations under 8 feet (2.44 meters), can identify even the most challenging substances by detecting and analyzing their microscopic traces. Engineered to dramatically reduce maintenance time, EntryScan® 4 features a quick-access panel that puts key system components within arm's reach. Enhanced sample collection assures full-body screening, including the head and shoes. Automatic traffic control features such as a gated exit and audio/ visual walk signals. Easy Maintenance, Compact Size monitoring, and ease of operation make this portal a fundamental part of a customer's checkpoint security solution.

EASY MAINTENANCE, COMPACT SIZE

Re-engineered and restyled, the EntryScan® 4 is shorter, lighter, and has a dramatically smaller external footprint. While its external footprint has been reduced by 17% the EntryScan® 4 system design preserves all of the internal walk-through space from previous models for maximum comfort. A quick-access side panel puts key components within easy reach for simple, safe maintenance, reducing "ladder" maintenance time by 63 percent. For convenience and flexibility, the operator display console mounts on the right or the left.

REMOTE MONITORING WITH THE ENTRYSCAN® SECURESTATION™

Add on the EntryScan® SecureStation™ option for a versatile, remote monitoring center. It can increase security and efficiency by allowing a single operator to monitor multiple instruments at a glance or multiple operators can monitor one instrument.

EASY TO USE

Touch screen menus with clear graphical user interface.

Built-in printer for fast hardcopy results or printing at a later date for use as evidence or for record keeping.

Quick analysis and results in as little as 13 seconds.

Software upgrades easy to install.

Local language options available.

SENSITIVITY/SELECTIVITY

Patented ITMS™ technology increases ion population, enabling detection of microscopic traces of explosives.

Simultaneous dual-mode detection can help improve detection of peroxide-based explosives.

VERSATILE

Can detect a wide range of targeted substances.

Semi-permeable membrane excludes dust and dirt and allows continued operation in environments that have high traffic, humidity or contamination.

USB keyboard customized to fit in operator control panel.

USB Flash disk functionality for fast upload and download.

Improved automated, visual/audio prompts with optional use of gates helps control and maintain traffic flow at desired throughput.

Versatile operator touch screen can be located on the left or right side of the system.

Self-contained, low-noise air system eliminates the need for separate, large air compressor.

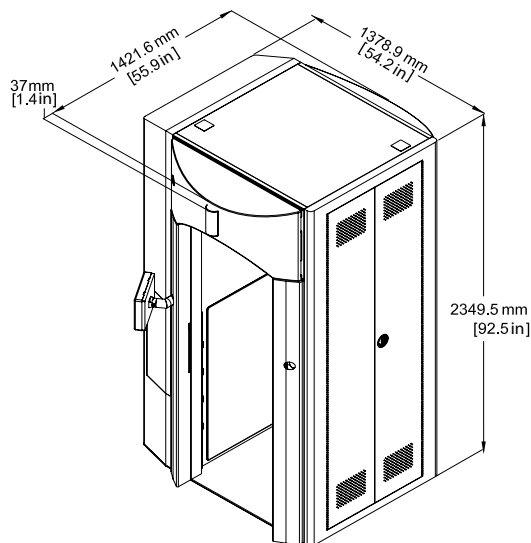
10 percent smaller frame and 17 percent footprint reduction from EntryScan® 3 allow for use in a greater variety of settings.

18 percent faster throughput.

ENTRYSCAN® 4

Rapiscan®
systems

An OSI Systems Company



PHYSICAL SPECIFICATIONS

Dimensions: Length: 1016 mm (40 in.) portal; 1458.7 mm (57.4 in.) maximum depth
Width: 1378.9 mm (54.3 in.) portal
Height: 2349.5 mm (92.5 in.) portal; 1982.9 mm (78.1 in.)
Weight (Approx.): Net: 341.1 Kg (752 lbs)

TECHNICAL SPECIFICATIONS

Detector Type: Ion Trap Mobility Spectrometer (ITMS™)
Analysis Time: Default 13 seconds
Sample Acquisition: Self-contained air collection
Power: 200-240 VAC, 20A, 50/60 Hz, single phase
8A typical, 2.5A in Standby Mode
Computer: Industrial grade embedded computer
Printer: Industrial grade embedded computer
Display: Integrated flat panel with touch screen, 10.4 inches (264.16 mm)
Signal Processing: Recognition of multiple peaks and multiple explosives
Output to bar graph display or time-of-flight plasmagram display

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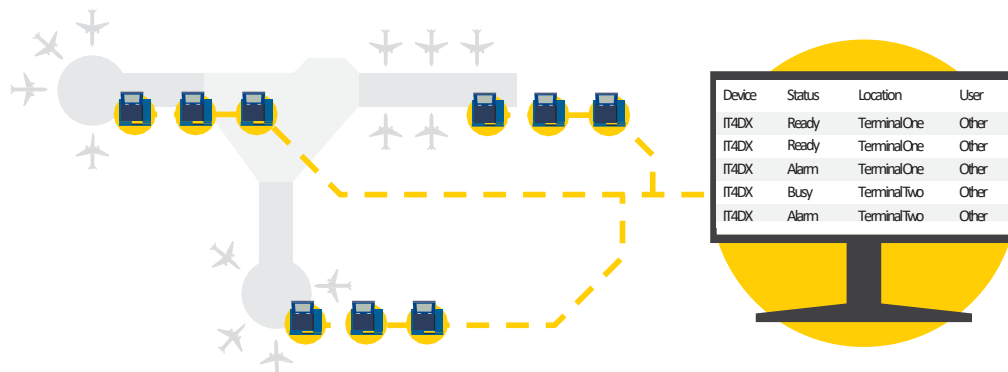
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REMOTE CONNECT™ CONSOLE V2

SECURE, CENTRALIZED INTERFACE FOR MULTIPLE ITEMISER® 4DX

Remote Connect™ is a software application that provides a single interface for airports and other secure sites to control multiple Itemiser® 4DX Explosive Trace Detectors (ETD)



TO FURTHER ENHANCE THE CAPABILITIES OF OUR ITEMISER® 4DX TRACE DETECTION SYSTEMS AND FULFILL A MAJOR OPERATIONAL AND SECURITY NEED FOR OUR CUSTOMERS, RAPISCAN® SYSTEMS DEVELOPED REMOTE CONNECT, A SOFTWARE APPLICATION THAT ALLOWS USERS TO SECURELY MONITOR, ANALYZE AND COMMAND THEIR FLEET OF ITEMISER® 4DX THROUGH A SINGLE, EASY-TO USE INTERFACE.

Users have a dashboard view of all networked Itemiser® 4DX, with color-coded device status information, customizable instrument reporting, real-time system monitoring, and more. Data is securely and automatically stored for up to 30 days.

As a result, airports and other secure sites can enjoy true centralized device control while further streamlining operations and reducing costs.



DEVICE MANAGEMENT

Manage up to 200* Itemiser 4DX at once



SECURE DATA

Secure access, storage and transfer of data to help protect against cyber attacks



REPORTING

Customizable reporting of passenger sampling statistics and alarm rates



REMOTE VIEWING

Operator messaging and remote operational assistance/control



REMOTE ADMINISTRATION

Remote system cleans, software upgrades, and user library controls



ARCHIVING

Automatic 30-day archiving of sample and history files



COST EFFICIENCY

Maximizing productivity while reducing operational costs

*Depends on computer system requirements and hardware.

REMOTE CONNECT™ CONSOLE V2

Rapiscan®
systems
An OSI Systems Company

REPORTING

Remote Connect provides two types of reporting: statistical reporting and a more advanced search for generating customized reports on device status and passenger sampling.

	time	name	data
1	2015-11-02T10:42:45-05:00	Warning	Heater Warning, On, None, The desorber heater fault...
2	2015-11-02T10:42:45-05:00	Warning	Stabilizing Temperature Warning, On, Heater Warnin...
3	2015-11-02T10:43:01-05:00	Warning	Detector Flow Warning, On, Heater Warning/Stabilizi...

Device	Serial Number	Device Name	Host Name	Location	Status	Information	Other
IT4DX	240010	4dx_240010	mdtms	Terminal 1	Ready	No Alarm...	
IT4DX	240464	4dx_240464	mdtms	Terminal 1	Busy	Sampling	
IT4DX	239951	4dx_239951	mdtms	Terminal 2	Ready	No Alarm...	
IT4DX	245978	4dx_245978	mdtms	Terminal 2	Warning	Calibration	
IT4DX	245978	4dx_245978	mdtms	Terminal 3	Alarm	Explosives Detected	

Statistics	Data	Percentage
Report time	Fri Feb 19 0...	
Date range	Wed Feb 10...	
Device	240010	
Samples	37	
Alarms	0	0%
Warnings	14	
Battery Low...	1	7.14%
Calibration ...	1	7.14%
Detector Fl...	1	7.14%
Heater War...	2	14.3%
Stabilizing ...	6	42.9%
Stabilizing ...	3	21.4%
Exits	5	
Restarts	6	
Shutdowns	1	

HARDWARE REQUIREMENTS

Operating system:	Windows XP, Windows 7, or Windows Vista
Memory:	At least 1 GB, preferably 2 GB or more for best performance
Processor:	Any Intel or AMD processor, preferably a multi-core CPU
Network:	Any 10/100/1000 Mbps Ethernet card or wi-fi capability

With continual development of our products Rapiscan® Systems reserves the right to amend specifications without notice. Product pictures are for general reference. Please note that due to US laws and regulations, not all Rapiscan® products are available for sale in all countries without restriction. Please contact your Rapiscan® Systems sales representative for more information.



Rapiscan® Systems is ISO 9001:2008 Certified

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EUROPE, MIDDLE EAST, AFRICA

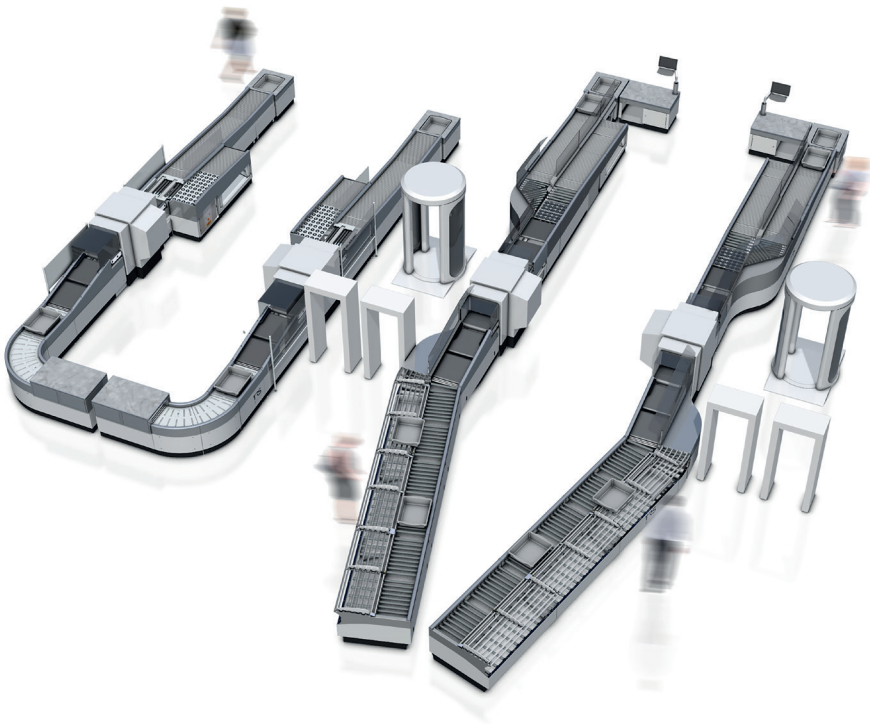
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ASIA

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#07-01 Pines Industrial Building
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Fax: +65-6743-9915

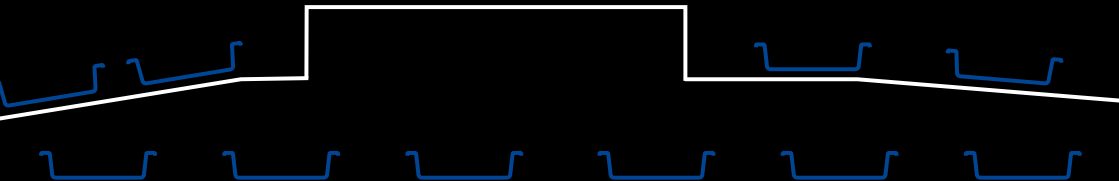
sales@rapiscansystems.com
www.rapiscansystems.com

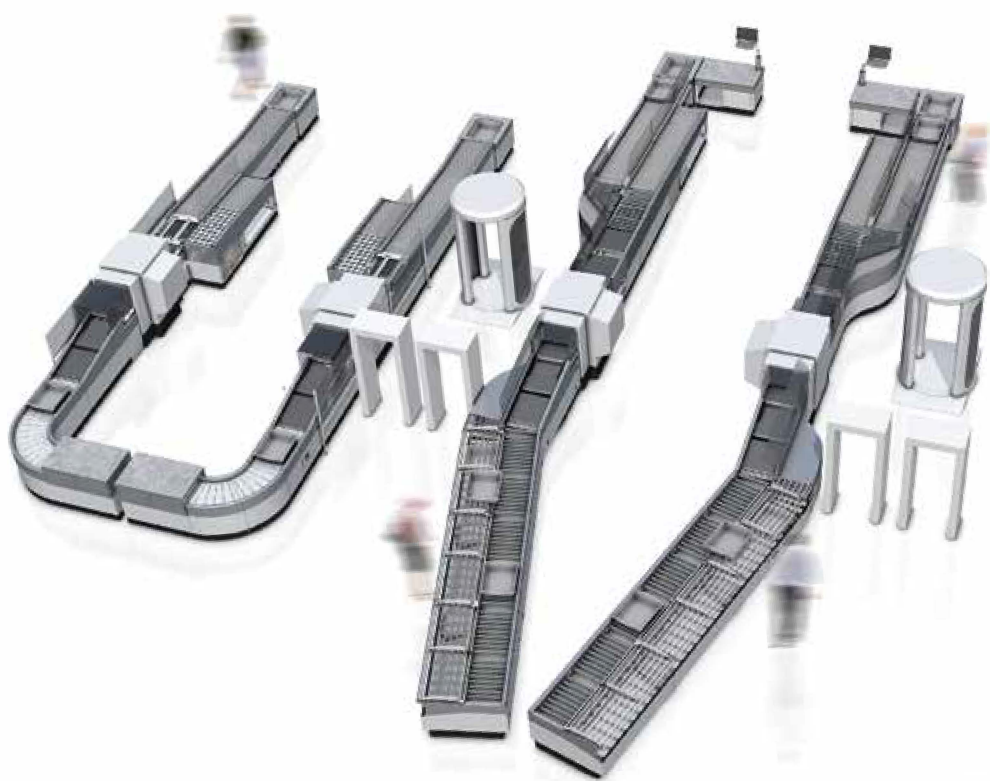
TRAY RETURN SYSTEMS



TRS™

CHECKPOINT SECURITY TRAY RETURN SYSTEM





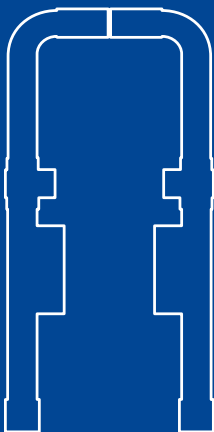
A more efficient and improved airport security environment

Since 2010 Herbert Systems has been designing, manufacturing and supplying the Herbert TRS to regional, national and international airports.

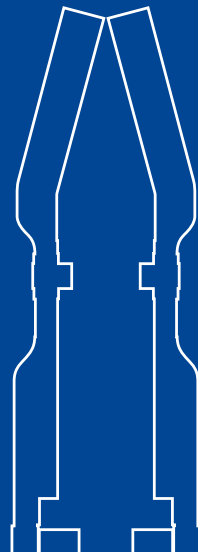
The TRS fleet covers all your passenger processing needs at the security checkpoint from the E Series, designed to provide basic tray handling to the popular high throughput P Series.

The Herbert TRS provides increased passenger throughput and checkpoint staff are able to spend less time as tray handlers and more time focusing on the security role and customer service.

Herbert Systems currently has over 200 TRS lanes deployed at airports worldwide and is confident in its ability to deliver time and again, a TRS solution that you can trust.



E Series



P Series

TRSTM
E Series



TRS E Series Overview

The simple market entry Herbert TRS E Series is ideal for gate security, staff lanes, and also smaller airports where an efficient system is required at minimum cost.



TRS E Series is an economical and easy to use system which offers the same benefits and passenger experience enjoyed in a larger airport environment.

Available in either a curved or straight configuration the E-Series is supplied in a crisp white colour which replaces the hard engineered metal lanes of the past introducing a more pleasant and fresh aesthetic to the security checkpoint.

Standard Features



X-RAY AGNOSTIC

Your X-Ray / CT scanner, our proven lanes



ERGONOMIC

Designed for passengers & staff



EASY TO USE & OPERATE

For operators & passengers



AUTOMATIC SEARCH DIVERT

Be secure, maintain throughput

TRSTM
P Series

↑
Travel Agency Counters

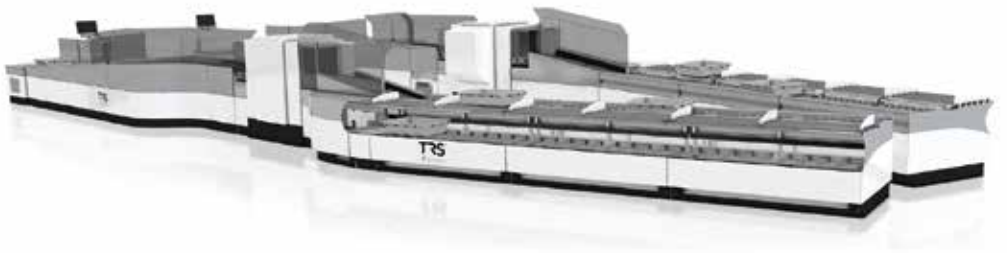


Destination	Flight	Status
London	BA 100	On Time
Paris	AF 100	On Time
Amsterdam	KLM 100	On Time
Frankfurt	LH 100	On Time
Brussels	BR 100	On Time
Geneva	GV 100	On Time
Zurich	LG 100	On Time
Basel	BS 100	On Time
St. Gallen	SG 100	On Time
Lucerne	LU 100	On Time
Basel	BS 100	On Time
St. Gallen	SG 100	On Time
Lucerne	LU 100	On Time
Basel	BS 100	On Time
St. Gallen	SG 100	On Time
Lucerne	LU 100	On Time

82-87

TRS P Series Overview

The effective and popular Herbert TRS P Series lanes have been installed in many airports throughout the world, keeping airline passengers moving swiftly through the security checkpoint.



The TRS P Series reduces queuing, minimises stress for passengers and gives them more time to spend in the retail areas whilst enhancing the good reputation of the airport.

The P Series is offered in either the serial or parallel divest configuration. It is of modular design, which means that it can be easily configured to fit into almost any space. Further lane enhancements, such as extending the length of the lanes to meet passenger growth, can be achieved quickly and efficiently.

The P series is capable of working with the airports choice of X-Ray or CT scanner and the Herbert generic approach enables ease of use of the P series lane in a mixed fleet environment.

Standard Features



X-RAY AGNOSTIC

Your X-Ray / CT scanner, our proven lanes



ERGONOMIC

Designed for passengers & staff



EASY TO USE & OPERATE

For operators & passengers



AUTOMATIC SEARCH DIVERT

Be secure, maintain throughput



MODULAR DESIGN

Checkpoint lanes ready for your future needs

Optional Features



REMOTE SCREENING READY

The future of screening



YOUR COLOURS

Consistent passenger experience

TRS P Series Modular Design

The flexible P Series provides the ability to easily update or modify the TRS to meet increased passenger numbers and new security regulations.



DIVESTMENT

Flexible passenger loading options in either serial or parallel divestment are available in multiple lengths that can be added and removed according to airport needs.

IN FEED & OUT FEED

With a proven ability to integrate with a wide range of X-Ray and CT scanning equipment, Herbert Systems offer 'before and after' customised modules as well as specialised base frames to enable the tray return system.



RECLAIM

Choice of module lengths provide a flexible redress area for passengers to claim their belongings and return the tray into the automatic reclaimer.

DIVERT & SEARCH

X-Ray operators choose what trays to divert to search. However all trays are sent to search as a default should any fault occur. This maintains maximum security for the airport.

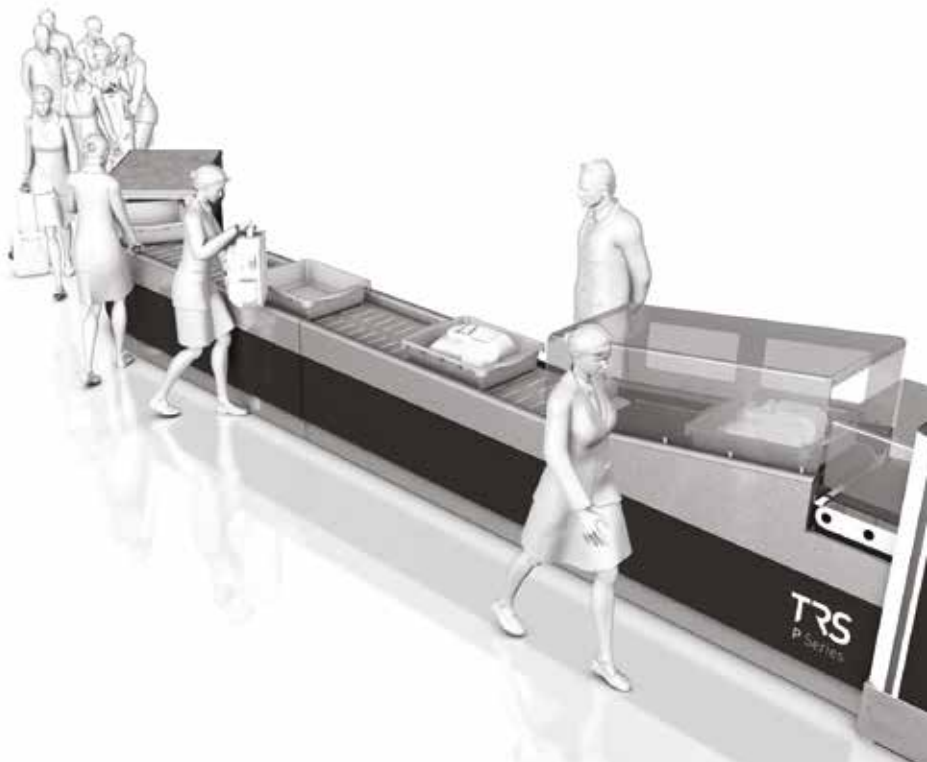
Depending on final inspection requirements, we offer a range of search benches to accommodate recheck area, additional screens, bins and other security equipment.

TRS P Series Divestment Options

Herbert Systems offers multiple divestment solutions for the TRS P Series. Serial divestment offers a traditional passenger experience whereas parallel divestment offers a high throughput alternative allowing multiple passengers to divest at the same time.

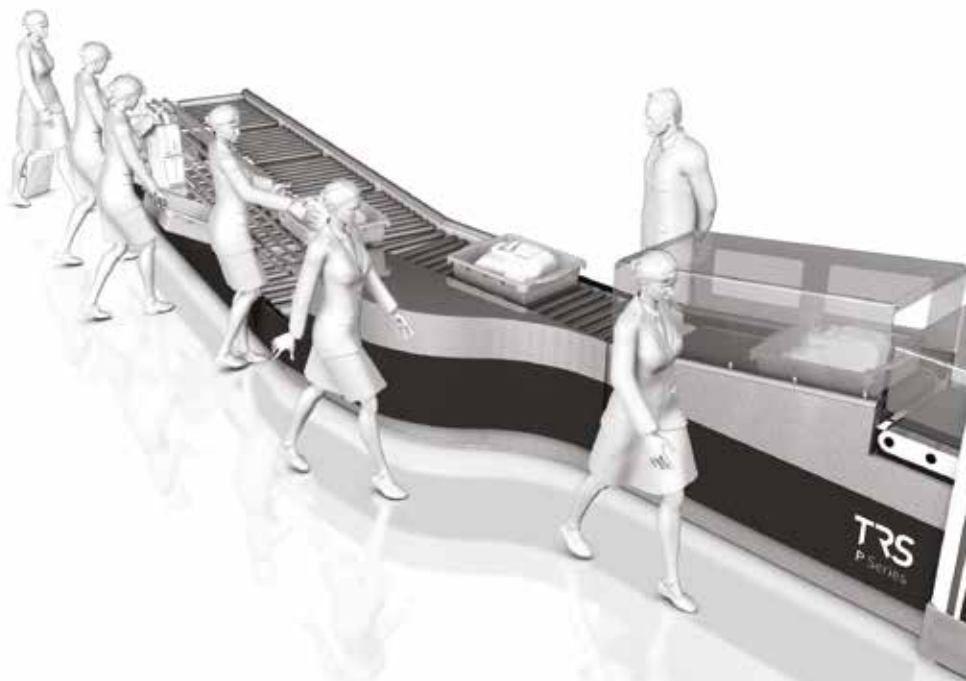
SERIAL DIVESTMENT

Serial divestment offers a single file divestment process to passengers and provides a more personal interaction with security personnel.



PARALLEL DIVESTMENT

Parallel Divestment allows for increased passenger throughput, by allowing multiple passengers to divest at the same time, while reducing wait time for queuing passengers.



Why TRS



REDUCES QUEUES FOR PASSENGERS

Reduces potential security target



INCREASED PASSENGER THROUGHPUT

Compared to manual lanes



REDUCED STAFF TRAY HANDLING

Improved working environment



EASY TO USE

For operators & passengers



PERSONAL PASSENGER EXPERIENCE

Customer service focused

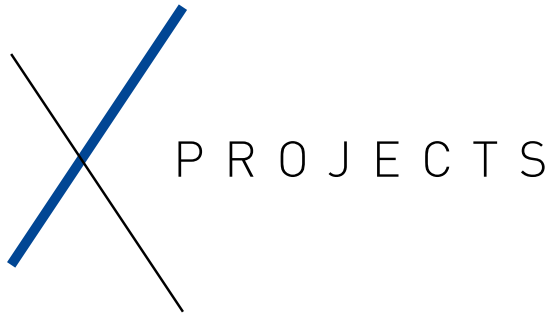


LESS STRESS FOR PASSENGERS

Calm & less industrial aesthetics

Fleet Comparison

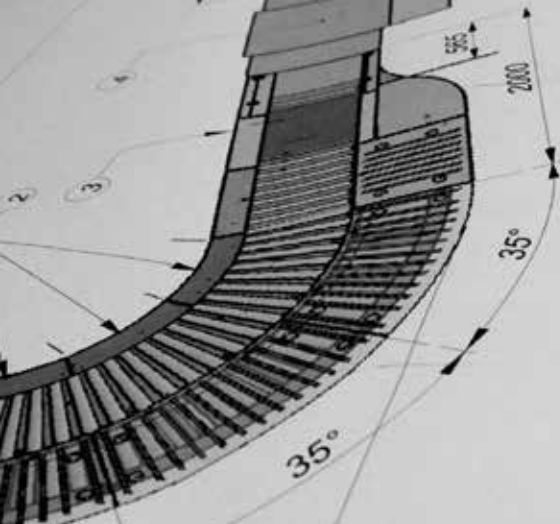
Feature	E Series	P Series
Automatic search divert	✓	✓
Easy to use and operate	✓	✓
Multiple configurations	✓	✓
X-ray agnostic	✓	✓
Automated tray return	✓	✓
Ergonomic	✓	✓
Serial divestment	✓	✓
Increased passenger throughput	✓	✓
IATA carry on size tray	✓	✓
Modular design		✓
RFID option		✓
Parallel divestment		✓
Remote screening ready		✓
Your colours		✓



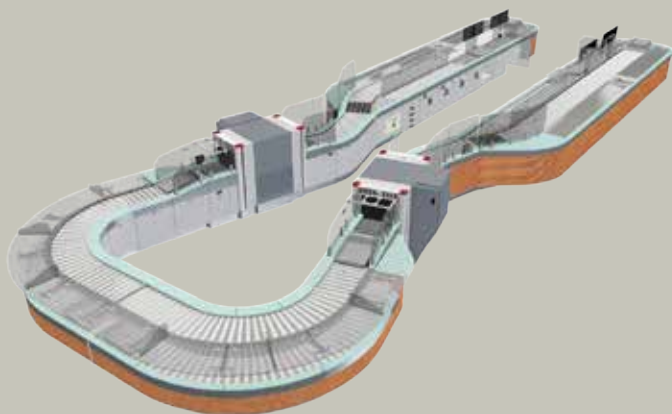
Herbert Systems offers a bespoke design service for airports requiring enhanced passenger experience and almost limitless advanced aesthetic treatments to compliment interior and exterior design and architectural styling.

Our most recent project includes curved glass parallel divestment modules to reduce the overall footprint without impacting upon throughput or passenger flow. It also includes in-line search lanes, with three lanes after the X-Ray or CT scanner and introduces a parallel reclaim solution to the TRS.

One of the many features that make the X Projects stand out is the variety of finishes that can be applied to each lane to suit individual airport's branding, architecture or interior design, from individual colour schemes to bespoke materials and finishes to enhance the passenger experience.



DESCRIPTION
900mm LONG STRAIGHT DIVESTMENT
35° CURVED DIVESTMENT
X-RAY INFILL
RETURN TRACK





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Rapiscan
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AS&E
Detect the difference.

S2
GLOBAL
AN OSI SYSTEMS COMPANY

PRODUCT CATALOGUE

VOLUME 2

2017



VERSION 5
APRIL 2017

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