



RANGER



*Advanced Solutions for Weapon
Screening and Asset Protection*

RANGER™



Dedicated to Producing Innovative Competitively Priced Technology

Ranger specialize in the development and manufacture of high efficiency metal detectors for weapon screening and asset protection.

Ranger produce Multi-Zone, Dual-Zone and Tri-Sector Walk-Through Detectors, Body Orifice Security Scanners, a Loss Prevention Detector for hospitals and a Hand Held Body scanner.

Our detectors are used throughout the world and protect a diverse range of people from heads-of-state to children attending school. They protect some of the world's most sensitive security sites.

Advanced Products Based on New Ideas

Ranger is a young, fast growing US manufacturer with imaginative ideas and a dynamic Research and Development program. We strive to produce innovative, affordably priced products that offer excellent performance and value. Ranger entered the security business by competing successfully in the price conscious US school market.

We pioneered the Multiple-Zone Continuous-Wave Multiple Sensor technique. The Intelliscan 12000 was the first walk-through detector to accurately pinpoint the location of weapons. Since its inception, Multi-Zone Detection has set the standard for walk-through detectors.

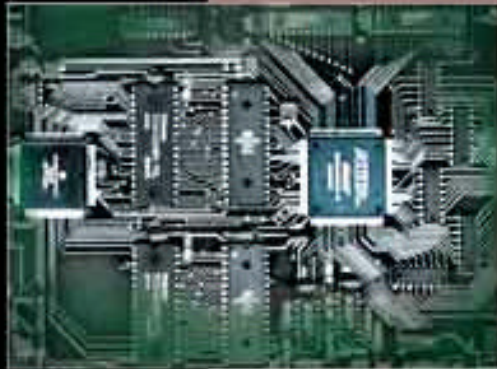
We are also leaders in the areas of non-intrusive body orifice security scanning and surgical instrument loss prevention screening. The B.O.S.S. Body Orifice Security Scanner detects small metal objects concealed in body cavities. The Mediscan is used in hospitals to screen for surgical instruments discarded inadvertently during operating room cleaning.

Our walk-through metal detectors are approved by the FAA for use at US Airports and meet the National Institute of Law Enforcement and Criminal Justice N.I.L.E.C.J. 0601.00 Standard Levels 1 to 5.

Ranger's detectors are continuously active and cannot be switched or programmed to a deactivated mode. They provide a high level of protection and function efficiently in difficult environments. Their low intensity magnetic fields have been certified safe for users of heart pacemakers and implanted defibrillators. They have been clinically tested by the Cardiac Research Department of a US Medical School and the Health and Medical Ministry of the Russian Federation.

Our Model 1000 Hand Held Body Scanner was rated highly by the Federal Aviation Administration (FAA) in its report on "Hand Held Metal Detectors." In addition, it also has been certified safe for users of heart pacemakers.

Our new detectors use the latest processors and are Year 2000 compliant.





Advanced High Discrimination Multiple-Zone Detection

The Intelliscan Eighteen-Zone, Six-Zone, Executive, All Weather and Portable are Continuous-Wave Multiple-Zone Detectors. They are equipped with six computer controlled horizontal zones of detection that perform as independent metal detectors. With the exception of the Six-Zone, their zones are sub-divided into three vertical segments, splitting the archway into 18 zones of detection. The vertical segments monitor the left, center and right side of a person while the horizontal zones determine the height at which a weapon or protected asset is carried. The Intelliscan Portable can be supplied with six or eighteen zones.

As a weapon or contraband object is transported through a zone, the zone's receiver channels and sophisticated mapping software compute its position within the archway. A display accurately pinpoints the location where an object, or objects, are concealed. Security personnel can immediately target a suspect object. This increases the quality, speed and efficiency of screening. It also reduces the physical demands placed on security personnel, as they are no longer forced to conduct a full manual body search.



Intelliscan Eighteen-Zone pinpoints the location of weapons or contraband metal

MULTI-ZONE DETECTORS CUT COSTS

- Reduce screening time and increase traffic flow rates
- Reduce the number of detectors, personnel and real-estate required for a high traffic location
- Minimize the physical workload of security personnel
- Increase quality of screening and protection

Pinpoints Location of Weapons or Contraband

A New Generation of Detectors

Ranger's new generation of Intelliscan high security walk-through detectors set a new standard in performance. Their detection characteristics are superior and they are easier to set up and operate. New data processing hardware and software programs improve their interference rejection, discrimination, sensitivity, detection uniformity, vibration tolerance and orientation response. Their increased discrimination significantly reduces unwanted alarms.

They include Horizontal Axis Gain Control (HAGC) and an optional Detection Enhancement feature. HAGC helps correct detection non-uniformity caused by vertically positioned external metal. Detection Enhancement is an optimization program that allows the user to create customized security programs.

To accommodate wheelchair access, frames with inner widths up to 36 inches (914 mm) are now available.

The Multi-Zone Advantage

In addition to showing the location of targeted objects, multi-zone detection increases other aspects of screening efficiency. It improves discrimination between weapons and harmless objects, reduces unwanted alarms and permits higher traffic flow rates. In high traffic locations, this translates into lower operating and capital costs. It reduces the number of detectors, personnel and amount of real-estate needed per given number of people screened.

Better Discrimination Through Multi-Zone Detection

False alarms are attributable to external electrical and electro-magnetic interference and poor tolerance to vibration. Good quality interference rejection and mechanical design lowers false alarms.

Multi-zone detectors reduce unwanted alarms caused by harmless personal effects such as keys, coins, jewelry, belt buckles, shoe shanks, cigarette packs, etc. In handgun screening applications multi-zone detectors eliminate the need for most people to empty their pockets of keys and coins.

Two conditions contribute to high unwanted alarm rates; cumulative signal effect and non-uniform detection. Cumulative signal effect lowers a detector's ability to separate weapons from harmless personal effects. It occurs when signals generated by metal items that are carried or worn, are processed as a single composite



*Handcrafted Intelliscan
Executive*

signal. For example, single zone detectors combine the signals from shoe shanks with those from a watch or objects carried in a shirt and trouser pockets. If the cumulative signal from these objects equals the size of the signal generated by the object being targeted, an unwanted alarm occurs.

By way of contrast, Intelliscan processes the signals from these objects in different zones, thus minimizing the cumulative signal effect.

Compensates for Detection Losses Caused by Re-bar in Floors

Non-uniform detection is frequently caused by re-bar in a floor or wall. External metal can distort a detector's magnetic field and may cause a loss in detection. For example, re-bar in a support floor produces a dead spot at foot and ankle height. As a consequence, metal objects that pass through the dead spot are undetected at normal sensitivity levels.

This is corrected in a conventional detector by raising its overall sensitivity to a value where detection occurs at ground level. However, if a floor is heavily reinforced with steel, a significant increase in sensitivity must be applied to achieve detection. This results in the upper regions of the detector becoming overly sensitive and an increase in unwanted alarms.

The ability to precisely adjust the sensitivity of the individual zones of multi- and dual-zone detectors, permits hot spots

and dead spots (high and low sensitivity regions) to be eliminated. For example, detection losses caused by re-bar in a floor can be compensated by increasing the ground zone's sensitivity to a level that allows the targeted object to be detected. Unlike a conventional detector, the upper regions of the arch way can be operated at normal sensitivity settings. Uniform detection is maintained throughout the archway and unwanted alarms prevented.

Horizontal Axis Gain Control

While adjustable zones compensate for detection losses caused by metal in floors or ceilings. A different solution is needed to counteract distortion caused by metal positioned near the side of a detector. When a detector is operated in proximity to a vertical metal object, such as a steel girder, deterioration in detection uniformity occurs across the horizontal axis of the archway. In situations where a detector cannot be positioned away from the offending metal, *Horizontal Axis Gain Control (HAGC)* may permit detection uniformity to be restored. Ranger's new generation of detectors all include *HAGC* as a standard feature.

Intelliscan Executive

The Intelliscan Executive, shown on previous page, is a customized version of the Intelliscan Eighteen-Zone and is handcrafted to resemble furniture. It is constructed from quality wood and blends into elegant surroundings. Woods can be selected to match a customer's decor.

INTELLISCAN

- **Pinpoints exact location of weapons**
- **Compensates for detection losses caused by re-bar**
- **Eliminates the need to empty pockets of normal quantities of keys and coins, etc.**
- **Affordably priced for all security applications**
- **Powerful Detection Enhancement option**

Detection Enhancement Option

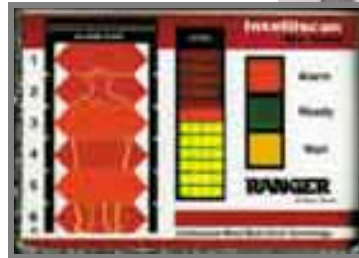
Detection Enhancement is designed for sophisticated users that wish to design and optimize their own detection programs. It allows customized detection profiles to be created for advanced weapon and asset protection applications.

The design procedure is implemented using Intelliscan's micro-processor. A program called *Identiscan* analyzes metal objects that are passed through the detector. It generates a characteristic signature for each object. Once a signature has been created for an object, its detection response can be precisely manipulated. Difficult to detect ferrous, non-ferrous, stainless steel or composite objects can be specifically targeted.

Intelliscan Six-Zone High Discrimination and Exceptional Value

Intelliscan Six-Zone has an alarm display that shows the height at which the detected object is carried. It has the same high discrimination and versatile detection programs as the Eighteen-Zone. It is a true multi-zone detector, which means that it detects more than one weapon, or targeted object simultaneously.

Despite its advanced performance it is priced to compete with conventional detectors.



***Intelliscan Six-Zone
displays height at which objects are carried***



Portable and Weatherproof Detectors

Intelliscan Portable

Intelliscan Portable is designed for users that need a low weight multi-zone detector that can be easily transported and quickly installed and dismantled. It can be supplied in either an eighteen- or six-zone configuration. It weighs less than 80 lb (36 kg) and utilizes quick release clamps to secure the header assembly to the side panels. Installation and dismantling take just a couple of minutes. When moving the unit to a new site its adjustable zone sensitivity controls allow detection uniformity to be quickly established.

Intelliscan Weatherproof

Intelliscan Weatherproof is designed for outdoor use and for operation over a range of environmental conditions. It has eighteen-zones of detection.

The standard version is designed to handle temperatures in the range 14 to 158° F (-10 to 70° C.) A low temperature version operates down to -22° F (-30° C.)

Minimum storage temperature -40° F and -40° C.

Safe, Cost Effective, Quality Protection For All Budgets



Ranger Safety-Zone and Tri-Sector

The Ranger Safety-Zone and Tri-Sector are designed for professional security applications where funding is limited. They provide a high level of protection and interference rejection. Like all Ranger detectors they are continuously active, have self-testing diagnostics, HAGC and a fast automatic reset for maximum throughput. Their detection and alarm circuitry cannot be switched or programmed to a deactivated state. They detect weapons that are passed, slid or tossed through them. *Some popular detectors do not meet this criteria. They are not continuously activated and security can be breached if they are inadequately supervised.*

Electrical and electro-magnetic interference rejection is achieved in Ranger's products through multiple frequency selection (sixteen user selectable frequencies) electronic filtering and advanced software algorithms.

A real-time twelve segment bar graph display allows an object's metal mass and any ambient interference to be analyzed.

Ranger "Tri-Sector"

Ranger Tri-Sector has three vertical detection sectors that identify if a weapon or contraband object is carried through the left, right or center of the detector. When detection occurs, highly visible alarm lights illuminate on the display panel and inner roof of the archway. They show the sector through which a weapon has been carried.

Tri-Sector incorporates transmitter elements in both side panels and multiple-receiver channels. The use of multiple-channels increases discrimination between weapons and harmless objects. The person being screened is scanned from both sides by continuous-wave low intensity magnetic fields. This permits good bi-directional performance.

Ranger Safety Zone

Ranger Safety Zone is a rugged general purpose Dual-Zone detector. Despite its cost effective pricing it offers impressive protection. In its basic configuration it is AC powered.

Safety Zone shows if an alarm is generated by a weapon carried at floor or ankle level or on the upper body. This feature increases screening efficiency as shoe metal often causes unwanted alarms.

Safety-Zone's transmitter configuration is similar to the Tri-Sector. Its twenty detection programs are designed for weapon screening and asset protection applications. The baseline sensitivity for each detection program can be adjusted in 1% steps over the range 1 to 99%.

Unlike a conventional detector, its adjustable ground and upper zones precisely compensate for detection losses caused by re-bar. Zone and HAGC sensitivities can be increased or decreased with respect to the baseline sensitivity. They can be controlled from -99 to +99% in steps of 1%.

Ranger Tri-Sector shows if object is carried on right, center or left of body



Ranger Tri-Sector

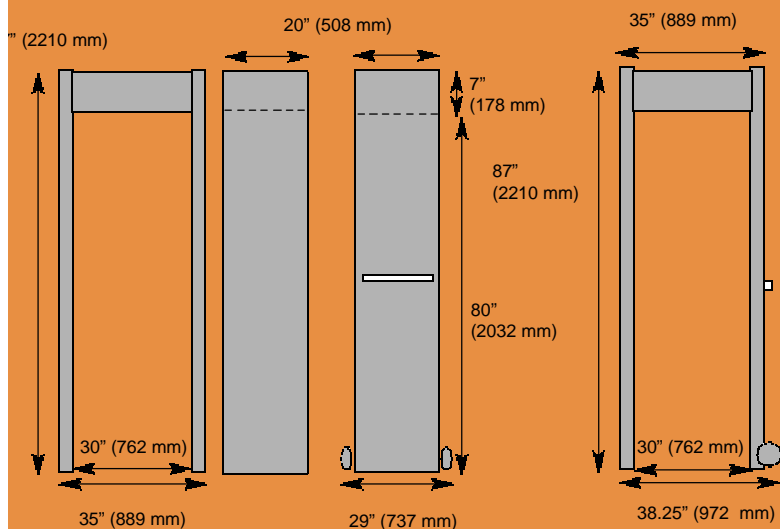


Multi- and Dual-Zone

TECHNICAL FEATURES	INTELLISCAN Eighteen-Zone	INTELLISCAN Six-Zone	RANGER Tri-Sector	RANGER Safety Zone	INTELLISCAN Portable	INTELLISCAN Weatherproof
Operating Principle: Continuous Wave Multiple-Sensor Measurement Technique	✓	✓	✓	✓	✓	✓
Number of Detection Zones	18	6	2	2	6 or 18	18
Alarm Display Shows Location of Object	Pinpoints exact location of weapon or targeted object	Identifies height at which object is carried	Shows if object is carried on left, center or right of body	Shows if object is carried at foot height or on upper body	As for Six or Eighteen Zone	Pinpoints exact location of weapon or targeted object
Number of Detection Programs	20	20	20	20	20	20
Suitable for weapon screening and asset protection	✓	✓	✓	✓	✓	✓
Baseline Sensitivity range for each program 1-99% in steps of 1.0%	✓	✓	✓	✓	✓	✓
Zone Sensitivity adjustments from -99 to +99% in 1.0% steps	✓	✓	✓	✓	✓	✓
Detection Programs with Detection Enhancement option (20 standard and 6 user definable)	✓	✓	Not Applicable	Not Applicable	✓	✓
Continuously Active Detection that cannot be deactivated. Detects weapons that are passed, slid or tossed through detector	✓	✓	✓	✓	✓	✓
Adjustable Floor Zone fully compensates for signal losses caused by re-bar in floor.	✓	✓	✓	✓	✓	✓
Horizontal Axis Gain Control	✓	✓	✓	✓	✓	✓
Status Display: Red lamp for alarm, green for ready and yellow for wait. Twelve segment bar graph shows real-time signal strength	✓	✓	✓	✓	✓	✓
Transmitter and receiver elements positioned both sides of person being screened	✓	✓	✓	✓	✓	✓
Number of user selectable operating frequencies	16	16	16	16	16	16
Interference Rejection: Advanced control algorithms and unique circuitry provide excellent noise immunity	✓	✓	✓	✓	✓	✓
Security: On/Off key lock and dual-level six digit security pass codes	✓	✓	✓	✓	✓	✓
Parameter changes entered through keypad and LCD Display	✓	✓	✓	✓	✓	✓
Power Requirements: 95 to 250 VAC at 47 to 64 Hz. Meets UL, CSA, VDE and TUV standards. Power connection to the side panels or through top if notified at order placement.	✓	✓	✓	✓	✓	✓
Optional Battery Operation	External UPS	External UPS	External UPS	Internal 8 hour capacity	External UPS	External UPS

Detection For All

	INTELLISCAN Eighteen-Zone	INTELLISCAN Six-Zone	RANGER Tri-Sector	RANGER Safety Zone	INTELLISCAN Portable	INTELLISCAN Weatherproof
Alarm relay output contacts for operating external devices such as cameras and door locks	✓	✓	✓	✓	✓	✓
Traffic Throughput: Fast transit response and automatic reset allows more than 50 passes per minute	✓	✓	✓	✓	✓	✓
Operating Environment: 0 ⁰ C to +55 ⁰ C. Humidity to 95% non-condensing	✓	✓	✓	✓	✓	✓
Warranty: Limited 2 year warranty	✓	✓	✓	✓	✓	✓
Regulatory Standards: Certified by Federal Aviation Administration. Meets or exceeds requirements of the National Institute of Law Enforcement and Criminal Justice (N.I.L.E.C.J.) Standard 0601.00 security levels 1-5	✓	✓	✓	✓	✓	✓
Optional Inner Archway Widths: 32" and 36" (813mm and 914mm)	✓	✓	✓	✓	✓	✓
Optional single and dual-traffic counters (neither deactivate detection circuitry.) Dual counter provides true count	✓	✓	✓	✓	✓	✓
Magnetic field certified safe for heart pacemakers	✓	✓	✓	✓	✓	✓
Optional remote alarm display	✓	✓	✓	✓	✓	✓
Detector Weight: 140 lb (63.6 kg)	✓	✓	✓	✓	✓	✓
Wheel Option	✓	✓	✓	✓	✓	✓



Safety Zone with Wheels and Battery

Weight: 148 lb (67 kg)

Shipping Dimensions:

Header - 34 x 25 x 11 inches
(864 x 635 x 279 mm)
Side panels - 90 x 24 x 8 inches
(2286 x 610 x 203 mm)
Shipping Weight: 145 lb (66 kg)

Shipping Weight of Safety Zone With Batteries
and wheels:
153 lb (70 kg)

Patents: US Patent No's 4677384 & 5521583
others pending

Ranger reserve the right to change its specification without notice

One Teenager in Five Carries a Weapon to School, One in Twenty a Gun

Source: US Center for Disease Control

Ranger Safety Zone shows if object is carried at ground height or on upper body

Ranger Safety-Zone School Version

The Safety Zone is ideal for school applications and budgets. It plays an essential role in barring weapons from schools. Wheels and an internal rechargeable battery provide mobility and increase its versatility.

Mobility - An Important Deterrent

Mobility enhances security, safety and the deterrence factor. Screening can be conducted on a random basis at different locations throughout the day. Large wheels and a pull bar allow a single person to easily move Safety Zone from a main entrance to an internal corridor, a sports arena or the venue for a social event. A student that carries a weapon never knows when or where they will be screened.

The integrated battery pack permits the unit to operate up to eight hours in a location where no AC power is available. The adjustable floor-zone is especially important as it minimizes set up time when the unit is relocated.

Every school day at least 100,000 children take a weapon to school, 160,000 skip classes because they fear physical harm, 40 are hurt or killed by firearms, 6,250 teachers are threatened with bodily injury and 260 are physically assaulted

Source: NEA



Safety Zone with wheel option





Prevents expensive re-usable surgical instruments and tools from being inadvertently or carelessly discarded in surgical suite waste

A Fast Return on Investment

The Mediscan Loss Prevention Detector has been developed to lower hospital operating costs. It prevents surgical instruments, tools, sensors and monitoring equipment discarded during surgical suite cleaning from being lost. Expensive re-usable stainless steel implements, often costing hundreds of dollars, are regularly discarded during cleaning. At many hospitals, the replacement cost alone exceeds tens-of-thousands of dollars per year. Ranger developed Mediscan to address this need. It provides a fast, inexpensive method of scanning medical waste bags and is an excellent deterrent against employees who negligently discard equipment. Mediscan is also used to scan laundry for concealed metal objects and prevent it from getting damaged or destroyed.

Bio-medical waste treatment costs can also be reduced, as Mediscan helps to prevent metal objects from locking up and damaging processing machinery. Averting lock-ups avoids plant down time and expensive decontamination and repair procedures that cost thousands of dollars.

Fast and Efficient Detection

Losses are prevented by simply dropping bio-hazardous trash bags through Mediscan's sensor. Surgical suite laundry is scanned the same way. The screening procedure is fast and easy. Mediscan alarms when a surgical instrument or tool passes through it. A variable sensitivity adjustment and advanced high discrimination microprocessor controlled electronics enable management to specify the size and type of objects that must be detected. For

example, the most commonly used operating mode detects stainless steel or ferrous objects only. This allows objects such as bulldog clips to be targeted while ignoring other metal objects such as aluminum sharps pouches and copper electrodes wires, etc. A second control option permits all types of metal to be detected. This operating mode is useful when inspecting laundry.



Mediscan Loss Prevention Detector

Specification:

- Microprocessor controlled with unique full-surround detection sensor
- All metal and stainless steel / ferrous discrimination programs
- Adjustable sensitivity control
- Operates from a low voltage 110V/220 VAC wall adapter
- Dimensions: 34.5 inches (876 mm) high by 30.5 inches (775 mm) in diameter
- Weight: 50 lb (22.7 Kg)



Non-Intrusive Scanning of Anal, Vaginal, Nasal and Oral Cavities

The *B.O.S.S. Body Orifice Security Scanner* is a fast, non-intrusive, reliable, inexpensive, simple to use scanning system. It is used at US State and Federal corrections facilities to screen inmates and visitors for small weapons and contraband metal objects.

B.O.S.S. Makes Life Safer For Officers and Inmates

B.O.S.S. is an effective deterrent that makes the unpleasant task of searching body cavities safer and easier. It detects single-sided razor blades, knives, hacksaw blades, shanks, nails, drill bits, tools, bullets, etc. Stabbings and slashings are reduced because fewer weapons enter and circulate within the inmate population.

Prior to transportation inmates can be scanned for handcuff keys and paper clips. A handcuff key is detected at a distance of 6 inches (150 mm) from the sensor.

If drugs are concealed in metal containers or foil they will be detected.

Because the inspection is non-contact, officers and institutions are protected from the liability issues that can arise from unnecessary invasive cavity searches. This is particularly important in juvenile facilities.

Fast and Easy to Use

Detection sensors are housed in the frame of a chair. An oral and nasal scanning sensor is mounted on the side of the chair frame. As a person sits down momentarily, their lower cavity or cavities are non-intrusively scanned by harmless low intensity magnetic fields. Their mouth and nasal cavities are scanned as they place their chin near the Oral Sensor. The whole procedure takes just a few seconds.

If metal is detected, visual and audible alarms activate. If desired, the audio alarms can be silenced. Alarm activation occurs when a person carrying a concealed object moves within range of the detection field. An alarm is continuously activated for the duration that an object remains within the field.

A Unique Measurement Technique

The high precision non-contact sensors provide instantaneous, high sensi-

Each microprocessor controlled detection channel has a transmitter, receiver, alarm lamps and buzzer and its own independent sensitivity control. The user can adjust the sensitivity control to select the size of weapon or object to be targeted. A patented self-diagnostic program called SmartTrac continuously monitors the local environment and insures drift free operation.

B.O.S.S. utilizes a combination of dynamic and true non-motion static detection tech-



tivity detection. Ferrous and non-ferrous metals, alloys and foils are detected. The chair configuration is used because it insures accurate positioning of the subject and optimal measurement geometry. Excellent magnetic coupling occurs between the sensor and a concealed object because of the small separation between the subject and the detection sensor.

niques. Unlike walk-through or hand scanning devices, it detects both moving and stationary objects. Most metal detectors operate purely in a dynamic mode and only detect objects that are moving. The ability to respond to both fast moving and stationary objects permits a rapid screening rate. Relative to a walk-through or hand held scanning device, a much higher measurement precision and accuracy is realized.

B.O.S.S. Body Orifice Security Scanner Fast and Non-Intrusive

Rugged and Safe

The rugged chair assembly is constructed to withstand abuse, is equipped with wheels and is covered in a two-part epoxy coating. It can accommodate very heavy individuals. The wheels increase the deterrence factor, allowing it to be easily moved between inmate receiving areas and cell blocks. Snap searches can be conducted at any time.

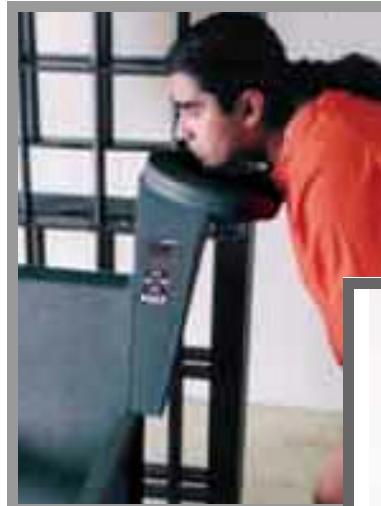
The low intensity magnetic fields pose no danger to people with heart pacemakers or pregnant women. No X-rays are used, so staff and inmates are never subjected to the effects of cumulative doses of radiation.

Loss Prevention Applications

Manufacturers that produce precious or high value materials use B.O.S.S. to protect their assets. It detects items such as gold shot, rings, watches and electronic components. An 1/8" (4 mm) diameter gold shot can be detected. "Big B.O.S.S." is an expanded version that includes sensors for screening the abdominal and foot region. The subject's foot is scanned when it is placed on the sensor strip positioned on the side of the chair.

Specifications

Power requirement:	110 / 240 VAC
Weight:	68 lb (31 kg)
Weight of Big B.O.S.S.:	86 lb (39 kg)
Dimensions:	53 x 32 x 30.5 inches (1346 x 813 x 775 mm)
Shipping weight:	81 lb (37 kg)
Big B.O.S.S.:	99 lb (45 kg)
Shipping dimensions:	41.5 x 25 x 25 inches (1054 x 635 x 635 mm)



*Big B.O.S.S.
has foot and abdominal sen-*



B.O.S.S. APPLICATIONS

- Prisons, jails and detention centers
- Customs and Border Patrol facilities
- Precious metal mines and refineries
- Coin counting facilities
- Jewelry and watch manufacturing
- Computer component manufacturing



Highly Rated By FAA

Despite its low relative price, the Model 1000 Hand Held Body Scanner was highly rated by the US Federal Aviation Administration in their Report DOT/FAA/CT-95/49 titled "Screening With Hand-Held Metal Detectors." *

Products produced by the world's leading manufacturers were evaluated. Twenty-six experienced airport security officers rated fourteen commonly used products. The following factors were included in the testers' assessment:

- Weight and length of wand
- Alarm sound
- Ability to detect metal objects
- Wand maneuverability
- Position of controls
- Wand grip (handle) comfort
- Overall wand assessment

Four products were judged significantly better than the rest. The Model 1000 was included amongst the four. In addition, it was the only unit in the top four that fell within the FAA's low cost (less than \$175.00) category.

** This report can be obtained through the US Department of Transport, National Technical Information Service, Springfield, Virginia 22161.*



Sensitive, Rugged and Dependable

Detects:

Medium pistol at	12" (300 mm)
Small pistol at	9" (230 mm)
Razor blade at	3" (75 mm)
Hat Pin at	1" (25 mm)
486 processor at	4" (100 mm)

Scan Rate:

3" to 24" (75-600 mm) per second

- Fully adjustable sensitivity control permits optimal performance for both weapon screening and loss prevention applications.
- Lightweight, comfortable grip, large scanning area and fast scan rate all contribute to reducing operator fatigue
- Automatic tuning insures equal results on a wide range of ferrous and non-ferrous metals
- De-sense button and tightly controlled detection pattern allows efficient weapon screening near floors containing re-bar
- New high volume audio alert can be easily heard against typical levels of background noise
- Operates on disposable or rechargeable batteries
- Highly rated yet inexpensive
- Tested by US Medical School and certified safe for wearers of heart pacemakers and implanted defibrillators.

Designed for Weapon and Loss Prevention Screening

Suitable For a Diverse Range of Security Applications

A user adjustable sensitivity control permits the Model 1000 to be used with optimum efficiency for a range of security applications. When screening for handguns the sensitivity can be lowered to avoid unwanted alarms from smaller harmless objects. It allows a non-intrusive hands-off search that minimizes physical contact with the subject. This helps to avoid possible human relations or liability problems.

The Model 1000's high sensitivity is invaluable in loss prevention applications where small metal objects must be protected. Jewelry, electronic products, computer processors, tools, etc. can be detected.

High Efficiency Screening Cuts Operator Fatigue

The lightweight construction, comfortable grip, large scanning surface, tight detection pattern, fast detection circuitry, de-sensitizing feature and ergonomic design all contribute to higher efficiency screening and reduced operator fatigue.

Electronics:

The advanced automatic tuning transmit/receive circuitry is housed in a rugged high impact ABS plastic case and detects ferrous and non-ferrous metals and alloys.

The unit's de-sensitivity feature and tight detection pattern help to reduce false alarms when the scanner is used to screen at ankle height and in the vicinity of floors with re-bar.

Sensitivity adjustments are made through a screw driver access hole in handle. This reduces the potential for tampering or inadvertent adjustment.

Alarm Indicators:

High efficiency piezo electric beeper and LED visual indicator. Indicators remain activated while search coil passes over metal. The duration of the alarm is indicative of the size of the object. The recently upgraded audio alarm has a signal intensity of 95db at 11.8" (30cm) in free air.

Power Requirement:

Unit requires standard 9V disposable alkaline battery or optional NiCad rechargeable cell. Typical disposable battery life is 80 hours. Unit consumes 5 mA quiescent current and a maximum of 35 mA when audio and visual alarms are activated.

Low Battery Warning:

Low voltage conditions are indicated when LED lamp flashes and steady state beeper tone changes to a warbling sound.

Dimensions:

16" x 3 1/16" x 1 3/8"
(406 x 78 x 35 mm)

Weight:

14 ounce (400 g)

Warranty:

Two year limited warranty on parts and labor.



*Walk-Through Metal Detectors
Body Orifice Security Scanners
Hand Held Body Scanner
Surgical Loss Prevention Detector*

RANGER



**For more information please call or visit our
web site: www.rangersecurity.com**

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