CEIA

peo DETECTION

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CEIA

CEIA is a global leader in security screening technologies, specializing in Explosive Trace Detectors (ETDs), Handheld Metal Detectors, and Walk-Through Metal Detectors (WTMDs). Their solutions are engineered to deliver high-performance threat detection across a wide range of security environments.

With over 50 years of experience, CEIA's technologies are designed to meet the evolving demands of modern security operations. Their systems offer high sensitivity and discrimination, ensuring accurate detection of threats while minimizing false alarms.

CEIA's commitment to innovation and quality has made them a trusted partner for security professionals worldwide.

EXPLOSIVE TRACE DETECTORS

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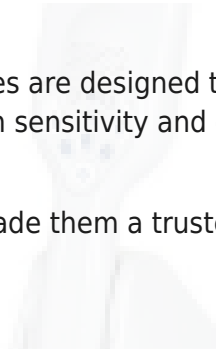
Security Detection › Explosive Trace Detectors
EMA series Liquid Explosive Detector

The EMA is a compact device designed for the analysis of liquid containers and their contents with the goal of detecting the possible presence of explosive precursors and explosive liquids.

The content of the bottles is analyzed without the need to open the container as the detection is effected using simultaneous multiple sensing technologies.

The housing of the analyser, which is extremely robust, durable and easy to clean, is made of AISI 304 Stainless Steel and anti-friction plastic.

The Analyser consists of a main body, a control panel and an analysis compartment. In case of open containers such as cups and thermos flasks, it is possible to carry out the analysis by means of the type A integrated analyser (optional), using small disposable plastic sample cups to be inserted into an external probe.

METAL HANDHELD DETECTORS

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Security Detection › Metal Handheld Detectors

PD140N

CEIA's PD140N is a hand-held metal detector that combines high reliability and ergonomics with advanced detection and operator signalling features. Effective sensitivity to all metals, full compliance with the latest security standards and high immunity to external metal masses are among the main peculiarities of this new device.

Compact hand-held metal detection set

The PD140N features a special ergonomic design consisting of an offset hand grip which ensures that the operator's hand does not interfere with the sensitive detection area. This means fewer scans per person and therefore shorter inspection times per person.

Special care has gone into the mechanical design of the detector. Absence of sharp edges or corners allows the detector to be passed smoothly over the inspected area without getting caught in buttons, buckles, folds or other
parts of clothing.

Areas of application

- Public events
- Stadiums and sport arenas
- Conventions
- Multiple lane screening

Characteristics

- NIJ Standard – 0602.02 compliant
- Compact, elegant, robust and ergonomic
- Detection of magnetic and non-magnetic targets
- Full digital design: calibration-free operations
- Extended continuous operation time
- Advanced configuration capability
- Indoor and outdoor operations

Advantages

- Programmable Sensitivity
- Extended continuous operation Time
- Automatic low power mode during screening pauses
- Embedded long life rechargeable batteries
are renewable energy and eliminate the operation cost of alkaline batteries
- Embedded fast and reliable battery charger: no need of batteries removal
- Dedicated holder acts as minimum space table stand and mains connection for battery charge
- Operator functions can be standard or customized by the user through PC GUI and USB connection

PD140N: fully digital and maximum flexibility

The PD140N is fully digital. Electronic functions include an inspection field transmitter-receiver based on Digital Signal Processing (DSP) technology, a digital operator interface and external communications over the incorporated USB port. This design combined with a special printed antenna ensures top reliability and very high repeatability.

The digital design of the new metal detector also enables the maximum flexibility in selecting the functions available to the user and how detection alarms are signalled. Users can keep the factory settings or connect the detector over its USB to a PC and then personalize the settings with a dedicated graphic interface (HHMD configuration tool required)

Security Detection › Metal Handheld Detectors

PD140E

The PD140E features a special ergonomic design consisting of an offset hand grip which ensures that the operator's hand does not interfere with the sensitive detection area. This means fewer scans per person and therefore shorter inspection times per person. Special care has gone into the mechanical design of the detector. Absence of sharp edges or corners allows the detector to be passed smoothly over the inspected area without getting caught in buttons, buckles, folds or other parts of clothing.

The technical features of the detector comply with the NIJ standard 0602.02 and the new NIJ draft standard 0602.03. The PD140E has uniform sensitivity to magnetic and non-magnetic targets including those made of stainless steel. At the same time the detector offers excellent body-effect compensation and has high immunity to external disturbance from electromagnetic and mechanical sources.

The PD140E is fully digital. Electronic functions include an inspection field transmitter-receiver based on Digital Signal Processing (DSP) technology. This design, combined with a special printed antenna, ensures consistent performance, very high reliability and calibration-free operations

Security Detection › Metal Handheld Detectors

PD240

The PD240 features a wide detection area for faster and more accurate screening operations. The PD240 combines CEIA's signature high reliability with advanced detection and operator signalling features, including a high immunity to floor rebars for lower body screening without sensitivity reduction. The PD240 offers full compliance with the latest NIJ security standards, indoor and outdoor use, as well as up to 100 hours of continuous operation on a single charge of its long life rechargeable batteries and embedded fast and reliable battery charger.

Advantages & benefits

- Programmable Sensitivity
- Long Detection Range
- Extended Continuous Operation Time
- Automatic Low Power Mode during Screening Pauses
- Embedded Long Life Rechargeable Batteries are renewable energy and eliminate the Operation Cost of Alkaline Batteries
- Embedded Fast and Reliable Battery Charger: no need for removal of batteries
- Dedicated Docking Station acts as Table Stand and Mains connection for Battery Charge
- Operator Functions can be standard or customized by the user through PC GUI and USB connection

Security Detection › Metal Handheld Detectors

PD240CB

The PD240CB is a Hand Held Metal Detector that combines high reliability and ergonomics with advanced detection and operator signalling features. Long detection range for weapons and minimum metal targets, effective sensitivity to all alloys, exceeds the latest Security Standards and has high immunity to external metal masses.

Advantages & Benefits

- Programmable Sensitivity
- Long Detection Range
- Extended Continuous Operation Time
- Automatic Low Power Mode during Screening Pauses
- Embedded Long Life Rechargeable Batteries are renewable energy and eliminate the Operation Cost of Alkaline Batteries
- Embedded Fast and Reliable Battery Charger: no need for removal of batteries
- Dedicated Docking Station acts as Table Stand and Mains connection for Battery Charge
- Operator Functions can be standard or customized by the user through PC GUI and USB connection

Security Detection › Metal Handheld Detectors
CEIA CMD® Compact Metal Detector

The CEIA CMD® is a very high performance, high-sensitivity Compact Metal Detector designed to detect metal and minimum-metal content targets in all types of terrain. Pinpointing of the metal objects is aided by an evolved system of acoustic modulation and an LED bar indicator, which allow the position of the detected mass to be established with a high degree of precision. The detector is manufactured in compliance with the ISO-9001 standard and has been designed to satisfy the most stringent operational requirements in any application field.

The Metal Detector comprises a search head, a control unit, a telescopic pole and an elbow support all jointed together in a one-piece design.
The detection head is light and the wiring is designed to be protected from any possible damage.
The compact, highly-portable design allows immediate operational status and ease of transport.
The CEIA CMD® incorporates a rapid battery charger (3 hours max.) powered by an electrical mains adapter or via the cigar lighter socket found in vehicles.

Intentionally designed to be used easily and comfortably in every working condition, the CEIA CMD® can be set up for operation in less than twenty seconds.
The equipment stands out due to its compact design, light weight, operational performance and reliability.
The telescopic pole length can be adjusted for use when standing, kneeling or in the prone position.

WTMD

Security Detection › WTMD

SMD®600 Plus-MI2

Combined Ferromagnetic and active Metal Detector
The SMD®600 Plus – MI2™ is optimized for the screening of people in applications where simultaneous detection of all metal (magnetic and non-magnetic) firearms and cellphone/smartphone devices, including the most miniaturized, low metal content versions, is required along with high-throughput and a low nuisance alarm rate.

Very High Performance Enhanced Walk-Through Metal Detector

- Detection of all-metal weapons, including light alloys threats
- High-Throughput
- Multizone red signaling

Cell phones detector

- Detection of standard and miniaturized cell phones and smartphones
- Detection of magnetized items
- Multizone yellow signaling

Applications

- Correctional facilities
- Data-sensitive meeting rooms
- Access restrictions enforcement of weapons, cell phones and smartphones
- Loss prevention of electronics devices
- Corporate anti-espionage

The new SMD®600 PLUS – MI2™ combines:

- The well renowned weapons detection and personal metallic objects discrimination performances of the CEIA SMD®600 Plus, 288-channel, NIJ0601.02 fully compliant Walk-Through Metal Detector (WTMD).
- The cellphone/smartphone detection and discrimination capabilities of the new CEIA MSD EVO™, state-of-the-art magnetostatic 18-axes detector that provides unparalleled detection uniformity and immunity against interferences.

On its own, the CEIA SMD®600 Plus WTMD is already a complete and efficient solution for the high-sensitivity detection of any metal weapon and any cellphone/smartphone in applications, such as the correctional facilities, where the inmates to be inspected are metal free or almost metal-free.

Security Detection › WTMD

SMD®601 Plus

The SMD®601 Plus is a very high sensitive Walk-Through Metal Detector. A full-height light bar displays the location of the detected metal masses in transit. This results in rapid identification of threats and a reduction or elimination of the need for manual searches. SMD®601 Plus detects even the smallest metal items anywhere on or in the body.

**Fully compliant with the NIJ-0601.02 and NIJ-0601.03 standards**

The SMD®601 Plus further extends the detection sensitivity of the previous SMD®601 to metal threats before considered undetectable due to their minimal dimensions and metal composition similar to the ones specified in the new NIJ-0601.03 Standard.

Accurate detection of all metallic threat items
- Very accurate pinpointing of individual and multiple metal targets
- Quick, accurate analysis of all parts of the body of people in transit, from the shoe level to the crossbar
- Built-in programs to screen visitors and staff for weapons and contraband

New certified ip66 control unit enclosure
- Total compatibility with previous control units
- Robust structure through the use of high-performance polymers for the construction of housing
- Waterproof / Dustproof: IP66 compliant (IEC 60529)
- Exceptional impact resistance at low and high temperatures and resistance to corrosion from atmospheric agents
- Display made with specific polymer to improve the visibility of the LEDs by increasing the definition and clarity
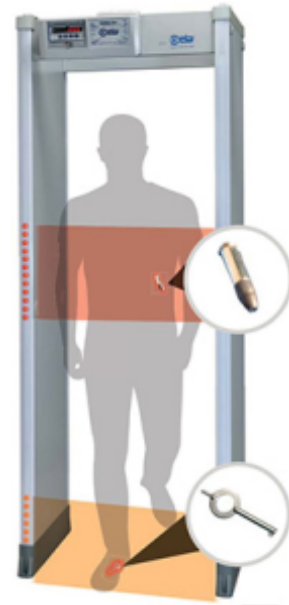
Security Detection › WTMD
PMD2 Plus

Strict requirements and detection needs call for security checkpoints to perform efficiently even under very challenging conditions. The PMD2 Plus detects fi rearms and knives, even when they are hidden within body cavities, and accurately indicate the position of the threat, its intensity and its prevalent composition.

Most powerful and versatile security features

Up to 50 built-in Security Programs:

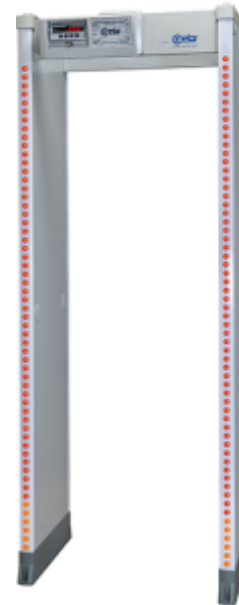- Up to 30 International Standards
- Up to 20 Customizable Levels

Setting the Security Levels could not be easier and more versatile than in the PMD2 Plus.

Users can choose directly from the known International Standards or request implementation of a Standard personalized to their own requirements. Users can also create their own program and save it in internal memory for later use.

Chip Card system for fast, simple and secure parameter changes (i.e. alarm volume and tone, counter reading, etc. and security level selection.

One unique characteristic of the CEIA metal detectors is the chip-card system, which allows Security Management to set the Security Level quickly, reliably and without having to program the device in any way.

Any security standard can be enhanced with selectable random alarm probability.

Security Detection › WTMD

PMD2 Plus Elliptic®

This is a zonal model featuring modern, elegant lines, and can be inserted into the most prestigious surroundings with the minimum visual impact. Easy to assemble and transport, the PMD2 Plus Elliptic® is also recommended for portable use in temporary or itinerant installations. The technology employed allows high discrimination to be achieved even at stringent security levels.

Most powerful and versatile security features

Up to 50 built-in Security Programs:

- Up to 30 International Standards
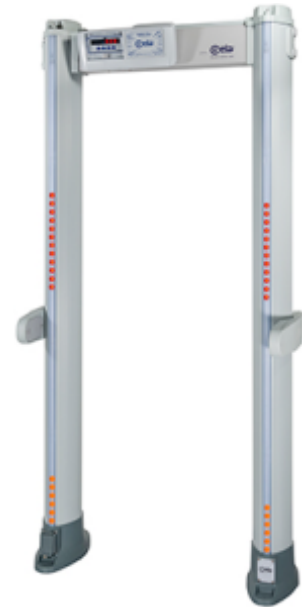- Up to 20 Customizable Levels

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One unique characteristic of the CEIA metal detectors is the chip-card system, which allows Security Management to set the Security Level quickly, reliably and without having to program the device in any way.

Any security standard can be enhanced with selectable random alarm probability.

Security Detection › WTMD

PMD2 Plus/EZHD

Strict requirements and detection needs call for security checkpoints to perform efficiently even under very challenging conditions. The PMD2 Plus/EZHD detects fi rearms and knives, even when they are hidden within body cavities, and accurately indicate the position of the threat, its intensity and its prevalent composition. The PMD2 Plus/EZHD has a very low nuisance alarm rate even at the strictest Security Standards requested today, and therefore allows high transit flow rates and the minimum need for intervention by inspection personnel.

Detection of all metallic threat items

- Capability to detect the full range of metal weapon threats even within body cavities
- Quick, accurate analysis of all parts of the body of people in transit, from the shoe level to the crossbar
- Guaranteed coverage for all orientations and locations, never in need of calibration
- Met-Identity technology for Identification of Threat Composition

High discrimination & throughput

- Cutting-edge discrimination technology allows personal effects to be ignored, creating rapid transit flow
- No need to remove items such as belts, coins, keys, jewelry, watches, wallets, etc.
- Better Discrimination = Shorter Lines and Less Staffing

SMD®601 Plus Loss Prevention

The SMD®601 Plus Loss Prevention Metal Detector prevents the theft or accidental removal of metallic objects. As people transit the system, their metal content is compared to a saved personal profile.

Quick, accurate analysis of all parts of the body of people in transit

The superior uniformity of the electromagnetic field of the SMD®601 Plus Metal Detector provides very consistent metal detection readings on every transit.

This ground-breaking capability allows for individual creation of personal metallic signatures or metallic "profiles".

True metal content profile for the person being screened

These profiles can be taken while the individual may be wearing non-removable items, like dental works, medical implants, wedding rings and piercings, and are stored in the SMD®601 Plus embedded data base.

These personal profiles are used as a reference for every transit carried out by an individual, allowing detection of small targets while ignoring non-removable personal objects.

Security Detection › WTMD
Classic Metal Detector

The column construction, both attractive and compact, allows it to be inserted with ease into public environments such as, for example, schools and discotheques.
The Classic Metal Detector has an extremely competitive price/performance ratio.

The Classic is a Walk Through Metal Detector designed and engineered to meet the specific security needs of public facilities such as schools, hotels, amusement parks and city halls.

The Classic Metal Detector combines the required Security with a high level of operating efficiency. The leading edge technology features a **high flow rate of people through the gate with the minimum number of nuisance alarms**, as personal effects such as coins, keys and belt buckles can pass through the magnetic field without causing an alarm.

The Classic Metal Detector is **compact and lightweight**, making this portable unit adaptable to any surroundings. The patented cylinder design is aesthetically suitable for the most discrete applications.

This security equipment does not require any special training for normal use, making this **the most user friendly Walk Through Metal Detector in the industry**.

CEIA Metal Detectors have been selected by the leading security agencies worldwide to protect highranking government officials and schools. The Classic **conforms to all International Security Standards** and is capable of detecting both magnetic and non-magnetic weapons.

When security, operating efficiency and affordable pricing are required, the CEIA Classic Metal Detector is the obvious solution.

Security Detection › WTMD

CEIA SMD 600 plus

A high sensitivity Metal Detector that offers characteristics of high discrimination and high detection uniformity.

The SMD 600 plus realizes a quick, accurate analysis of all parts of the body of people in transit, from the shoe level to the crossbar. This metal detector accurately pinpoints individual and multiple metal targets with built-in programs to screen visitors and staff for weapons and contraband.

CEIA's cutting-edge discrimination technology allows personal effects to be ignored, creating rapid transit flow with four multi-zone display bars. Each programmable as entry Stop/Go and/or local alarm indication.It is developed with a flexible acoustic alarm signaling system (10 continuous and pulsed tones, 34 special sounds) and 10 alarm volume levels.

The SMD 600 plus has up to 50 built-in security programs: 30 International Standards, 20 with customizable levels. It has a chip card system for fast, simple and secure parameter changes (i.e. alarm volume and tone, counter reading, etc) and security level selection. Any security standard can be enhanced with a selectable random alarm probability.

Characteristics

- Very High Sensitivity
- Excellent discrimination of personal metal effects
- Fully compliant with, and exceeding, the NIJ-0601.02 Standard
- Very high throughput in high security public screening checkpoints
- Exceptional Immunity to external interferences
- High precision bidirectional counter with automatic rescreening compensation

Advantages

- Continuous self diagnostic system
- Proven reliability
- No periodic re-calibration and preventive maintenance required
- No scheduled maintenance
- Fully digital design
- State-of-the-art, robust and washable panels

- Protected against aging, weather and wear
- Ergonomic and robust design
- High visibility alphanumeric display and programming keyboard
- Made of advanced plastics or stainless steel and anti-vandalism construction (option)
- Access to the front panel protected by hardware key and 3 levels of passwords

MSD Magnetic Static Detector – CEIA

Highly Portbale Cell Phone Detector

The illegal use of cell phones is a growing and dangerous problem in correctional institutions worldwide. These devices are a significant threat to prison security and circumvent the monitoring processes in prisons, while allowing inmates to commit new crimes both inside and outside the facility. The MSD was specifically designed to detect all cell phones and ferrous contraband concealed on the person or in body cavities (including key fob cell phones, smart phones, radio transceivers, etc.) quickly and easily. The one-piece design allows the MSD to be easily transported and operational in 10 seconds.

Advantages

Video

- detection of magnets and ferromagnetic metals
- carrying case for personal transport and storage
- full-height, 360° detection (horizontal & vertical)
- 5 individual zones for pinpointing locations of contraband on the body
- covert operation through use of BT wireless communication headset
- fully weather proof for outdoor use
- 24 hours typical / 26 hours max. of continuous battery operation with 4.5 hours charge
- one-piece and lightweight design (total weight only 21 lbs with batteries included) easily transportable by one person
- unmatched detection in all environments without adjustment
- extremely durable design using stainless steel and high impact reinforced plastics
- anti-tip suction cups for securing to smooth floor surfaces (included)
- non-emitting device: safe for use for pace-makers and other medical implants
- throughput: 60+ people per minute (based on uninterrupted flow, separately alarms resolution)

Check the datasheet for specifications

Would you like more information or a demonstration?

Security Detection › WTMD
HI-PE Plus Multi-Zone Metal Detector – CEIA

The HI-PE Plus walk-through metal detector provides accurate detection of all metals, high level of discrimination of non-threat items, full compliance with the latest Security Standards and exceptional immunity to external interferences.

The HI-PE Plus has a very low nuisance alarm rate even at the strictest Security Levels requested today, and therefore allows high transit flow rates and the minimum need for intervention by inspection personnel.

Accurate detection of all metallic threat items
- Capability to detect the full range of metal weapon threats even within body cavities
- 60 localization zones: 20 vertical; 3 lateral
- Met-Identity technology for Identification of Threat Composition

The most advanced Security Standards require detection of all ferrous and non-ferrous metal weapons and of those constructed in special non-magnetic alloys. The HI-PE Plus detects firearms and knives of this type, even when they are hidden within body cavities, and accurately indicate the position of the threat, its intensity and its prevalent composition. Inspection personnel thereby acquire thorough knowledge of the metal item and can act, according to procedures, with maximum effectiveness and security.

Most powerful and versatile security features

The metal detector has up to 50 built-in Security Programs:

- Up to 30 International Standards
- Up to 20 Customizable Levels

Setting the Security Levels could not be easier and more versatile than in the HI-PE Plus.

Users can choose directly from the known International Standards or request implementation of a Standard personalized to their own requirements. Users can also create their own program and save it in internal memory for later use.

Chip Card system for fast, simple and secure parameter changes (i.e. alarm volume and tone, counter reading, etc. and security level selection.

One unique characteristic of the CEIA metal detectors is the chip-card system, which allows Security Management to set the Security Level quickly, reliably and without having to program the device in any way.

Any security standard can be enhanced with selectable random alarm probability.

High discrimination and throughput
- Cutting-edge discrimination technology allows personal effects to be ignored, creating rapid transit flow
- No need to remove items such as belts, coins, keys, jewelry, watches, wallets, etc.
- Better Discrimination = Shorter Lines and/or Less Staffing

The transit volume magnetic scanning system, invented by CEIA and applied since production of the first zonal Metal Detectors in 1986, allows state-of-the-art detection and discrimination results.

The HI-PE Plus has a very low nuisance alarm rate even at the strictest Security Standards requested today, and therefore allows high transit flow rates and the minimum need for intervention by inspection personnel.

New WTMDs IP66 Control Unit
- New integrated design
- Total mechanical compatibility with IP20 (plastic) and IP65 (stainless steel) control units:
  - Dimensional
  - Installation
  - Wiring
  - Chip card
- Robust structure through the use of high-performance polymers for the construction of housing
- Waterproof / Dustproof: IP rating IP66 compliant
- Exceptional impact resistance at low and high temperatures and resistance to corrosion from atmospheric agents
- Display made with specific polymer to improve the visibility of the LEDs by increasing the defi nition and clarity

Unique alarm signalling
- High visibility of the control unit and the zone indication independent from the operator position and the installation environment
- Flexible Acoustic Alarm Signaling System: 10 Continuous and Pulsed Tones; 34 Special Sounds
- 10 Alarm Volume Levels
- Very High Precision Transit Counter

Accurate signaling is essential for best operation and flow management. The detector provides the user with fully-programmable signaling. Both entry-points can indicate with a high level of accuracy, even simultaneously, the vertical and lateral areas of transit of the threats detected, and can also be configured as 'traffic lights' to control transits through the detector.

Rapid installation
- One touch guided automatic installation (OTS)
- Innovative function assisting the installation through an automatic step-by-step procedure
- Continuous self diagnostics assures monitored performance reliability

If you want to read more about this detector, take a look at our partner's site!