HI-PE Plus

Enhanced Walk-Through Multi-Zone Metal Detector

NEW

Applications

- ☑ Government Buildings
- ☑ Industries (Security)
- ☑ Nuclear Facilities (Security)
- ☑ Prisons (visitors)
- ☑ Public Events
- ☑ Amusement Parks
- ☑ Courts
- ☑ Cruise ships
- ☑ Data Processing Centers (EDP)
- ☑ Hotels
- ☑ Schools Security

- ■ Accurate Detection of magnetic, non-magnetic and mixed-alloy metal weapons

- ■ High Discrimination and Throughput

- ■ Compliant with the Strictest Security Standards for weapons detection

- ■ Exceptional Immunity to external interferences

- ■ Unmatched Reliability

- ■ Rapid Installation

Ceia®

CEIA is proud to present the new HI-PE Plus Multi-Zone Metal Detector, a development of the well-established HI-PE model. Accurate detection of all metals, high level of discrimination, full compliance with the latest Security Standards and exceptional immunity to external interferences are among the main features of this new device
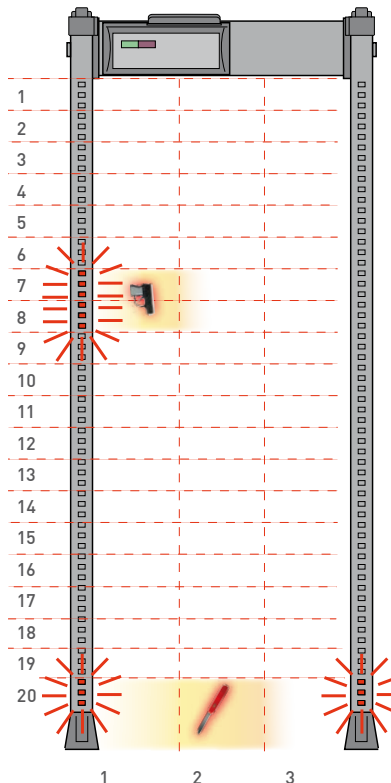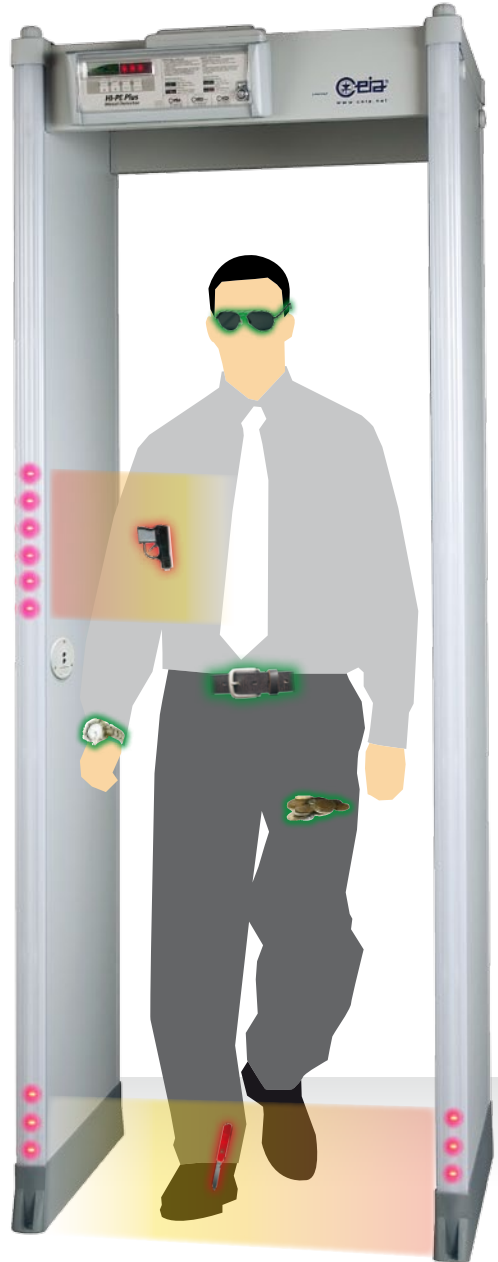
Features

VERY HIGH SENSITIVITY

- Capable of detecting the largest range of threat objects composed of magnetic, non-magnetic and mixed alloys

- Quick, accurate analysis of all parts of the body of people in transit, from the shoe level to the crossbar

HIGH RESOLUTION AND PRECISION

- 60 pinpointing zones with high resolution & precision ☑ 20 Vertical x 3 Lateral

METAL KIND IDENTIFICATION

- Met-Identity for Identification of Threat Composition

☑ *Met-Identity Technology*

In the case of an alarm the type of the metal mass detected can be shown on the display

Ferr

➤ FERROUS METAL

noFe

➤ NON FERROUS METAL

📄 *60 Zones!*

You know the exact position of the weapon without lifting a finger

Benefits

- **Cutting edge discrimination technology** allows personal effects to be ignored, creating rapid transit flow

  UNMATCHED DISCRIMINATION

- **Uniform inspection field**, allowing more personal metal effects to be ignored

  UNIFORM INSPECTION

ALARM

NO ALARM

Advanced Alarm Indication

- **4 Multi-Zones Display Bars**, each programmable as entry Stop/Go indication and/or localization lights
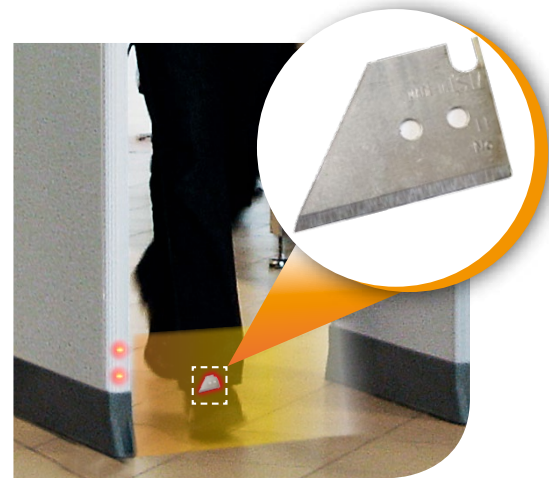
  4 BARS 2 IN, 2 OUT / PROGRAMMABLE DISPLAY BARS

- **Flexible Acoustic Alarm Signaling System:**
  - ☑ 10 Continuous and Pulsed Tones
  - ☑ 34 Special Sounds

  FLEXIBLE SOUND SYSTEM

- **10 Acoustic Intensity Levels** programmable from 0 up to 90 dBA at 1 m

  INTENSITY LEVELS

- **High Precision Transit Counter:**
  - ☑ In-Bound Transits
  - ☑ Out-Bound Transits
  - ☑ Alarm Rate
  - ☑ Automatic Rescreening Compensation

  BIDIRECTIONAL COUNTER

↗ *Light bars indicate metal position vertically and laterally and can also show pacing lights*

Comprehensive Security Features

- **Over 40 built-in Security Programs**
  - ☑ Up to 22 International Standards
  - ☑ Up to 20 Customizable Levels

  22 IS 20 Custom / SECURITY LEVELS

- **Chip Card system** for fast, simple and secure parameter changes (i.e. alarm volume and tone, counter reading etc...) and Security Level Selection

  CHIP CARD SYSTEM

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

  RANDOM ALARM

↗ *Chip card for automatic selection of Security Levels and parameter changes*
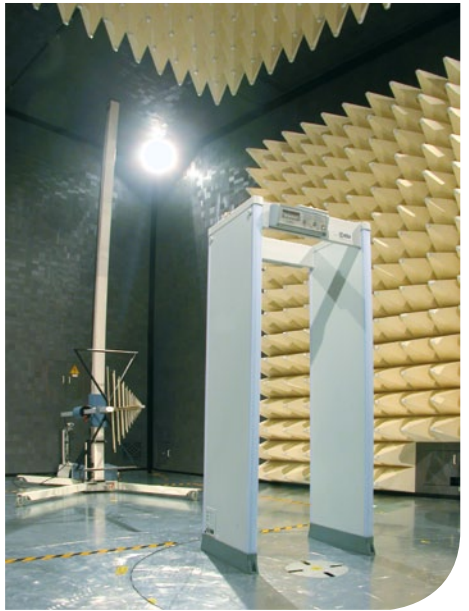
Rapid Installation

- **One touch guided automatic installation (OTS)**
  Innovative function assisting the installation through an automatic step-by-step procedure

ONE TOUCH AUTO-SETTING

- **Continuous self diagnostics assures monitored performance reliability**

SELF-DIAGNOSTIC SYSTEM

Communication Capabilities

NETWORK CONNECTION **INFRARED REMOTE CONTROL** **BLUETOOTH**

TYPE OF OPERATION	Ethernet	USB	Infrared	Bluetooth	RS-232
Maintenance	○	○		●	●
Remote Control	○		●	●	●
Remote Data collection	○				

Industry Leader in Immunity against External Interferences

Breakthrough Value

- **Superior CEIA reliability allows maximum ROI**
  The overall system is characterized by sturdy, reliable electronic and mechanical construction, and ease of installation.
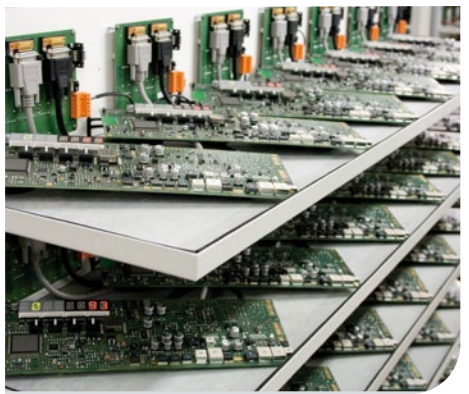
UNMATCHED RELIABILITY

- **No periodic re-calibration and preventive maintenance required**

MAINTENANCE FREE

- **100% modern digital components for longer life and consistent performance**

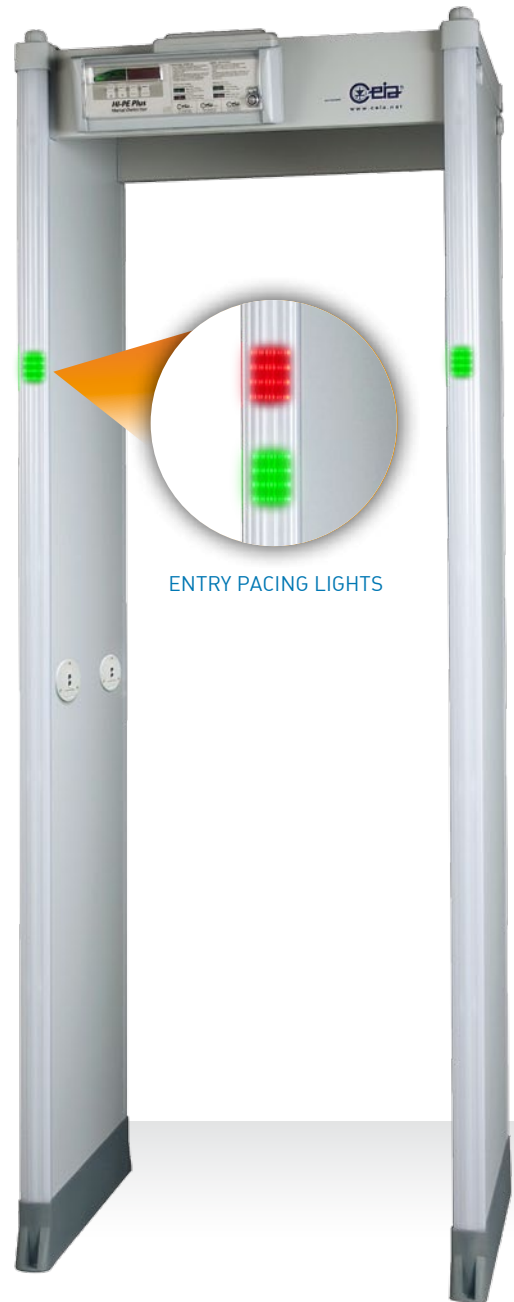- **Custom designed DSP allows unparalleled detection**

CUSTOM DSP ANALYZERS

Very high MTBF (mean time between failure) obtained through Large Scale Integration devices and 200 hours burn-in testing

- **Powered by low voltage DC resulting in the safest gate operation**

SAFETY

Model Configuration
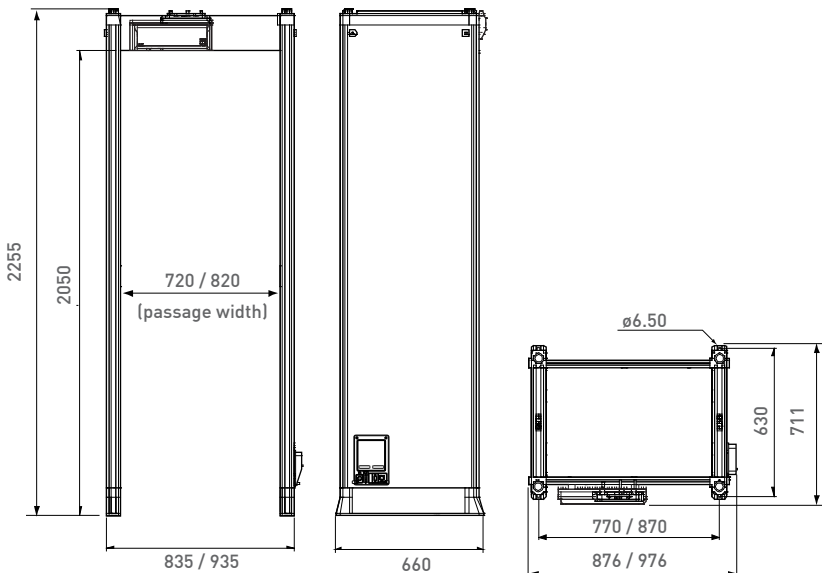
Features	HI-PE/PZ Plus
4 display bars individually programmable as zone indicators and/or pacing lights	●
60 localization zones with left, center and right indication	●
Met-Identity technology	●
Powered by safe low voltage DC	●
Chip Card Reader	●
One Touch Automatic Self Installation (OTS)	●
Bluetooth, infrared and RS-232 communication	●
Password and hardware key access protection	●
Anti-tamper on/off switch	●
High precision transit counter	○
Programmable Random Alarm capability*	○
Weather resistant protection	○
Anti-vandalism, anti-tampering protection	○
IP65 protection (includes weather resistant and anti-vandalism options)	○
Integrated web-server & logger (includes Ethernet and USB interface)	○
Long life crossbar battery back-up	○
Embedded battery back-up	○
820 mm useful passage width	○

● STANDARD   ○ OPTION   *Transit Counter required

ENTRY PACING LIGHTS

Dimensions

2255
2050
720 / 820
(passage width)
835 / 935
660
ø6.50
630
711
770 / 870
876 / 976

UNDER THE ALARM THRESHOLD

Small metal mass
Medium metal mass

OVER THE ALARM THRESHOLD

Medium metal mass
Large metal mass

Green and Red Metering Signals Proportional to the Metal Mass Detected

Options / Upgrade Kits

➤ Weather Resistant Protection

Kit for upgrading the standard version to outdoor applications according to IEC 60950-22; this kit includes shelters, crossbars, protection covers for power supply and waterproof mains power supply adapter. • 720 mm passage width (part # 55630)
• 820 mm passage width (part # 55633)

➤ Anti-vandalism, Anti-tampering Protection

This option includes stainless steel control unit, waterproof mains power supply adapter, protection covers for power supply and antenna connection compartments, equipped with screws requiring tools for removal. Part # 55629

➤ IP65 Protection

This option includes the Weather Resistant and Anti-vandalism kits. 720 mm passage width (part # 55631);
820 mm passage width (part # 55632)

➤ 820 mm Useful Passage Width

Part # 55635

➤ Long life crossbar battery back-up

Crossbar battery back-up in stainless steel case. Provides up to 8 hours of autonomous working time.

Part # 55681

UP TO 8 HOURS TYPICAL CONTINUOUS
OPERATION WITH HI-PE PLUS

➤ Embedded Battery Charger and Under-voltage Protection

Anti-tamper on/off switch, RS-232 interface, battery charger with 12 hours mains disconnection diagnostic alarm.

Part # APSM2Plus/P

➤ Integrated Web-server & Logger, Battery Back-up and Charger

Anti-tamper on/off switch, RS-232, USB, 10/100 baseT Ethernet interface, data logger, real-time clock, integrated web-server, transit statistical data analysis, 20' internal battery back-up with 12 hours mains disconnection diagnostic alarm.

Part # APS*i*M2Plus/P

➤ High Precision Transit Counter

Two photocells fitted into the archway allow counting of transits, alarms and percentage of alarms.
Part # 32716

Accessories

➤ Chip Cards

Chip cards for simple and secure selection of Security Levels and parameter setting. List of chip-cards available on request.

➤ RCU2

Control unit for full remote access, including alarm signalling and programming of CEIA Metal Detectors.

Part # RCU2

➤ MBSU-2

Independent, compact size, long life power supply in weatherproof stainless steel case, with embedded fast charger:

- 14 hours typical (10 hours minimum) continuous operation with HI-PE Plus
- 5 hours typical charging time.

Part # MBSU-2

205 mm
425 mm
138 mm

➤ MD-Scope

Powerful, PC based installation and service Software. Includes oscilloscope and terminal functionality.

Part # MD-SCOPE2

➤ Metal Detector Divesting Table

FOR MANAGEMENT OF PERSONAL METAL BELONGINGS

- Standard length: 610 mm (Part # 18074)
- Extended length: 1200 mm (Part # 39491)

➤ ID-Holder

This accessory is designed to be hung on a crossbar of the archway, either at the entrance or the exit side. It can hold, for instance, a notice or an ID number for waiting people or for the screener. Part # 54095

GATE 1

➤ IRC-1

Infrared Remote Controller for wireless remote programming of the control unit. Part # 47180

➤ Upper Connection Module

This extension cable allows the connection of power supply and serial communication to personal computers or CEIA accessories, such as RCU-2. Part # 46650

➤ RRU

Remote relay unit (RRU) to repeat the detection alarms of the gate through a relay contact. The RRU module can be used for integration of the Metal Detector in interlocked door systems

Part # RRU

➤ Waterproof Mains Power Supply

100W IP67 power supply for outdoor applications. It is provided with flanges for simple installation.

Part # 43564

➤ Stainless Steel Deck Dolly

FOR LOCAL MOVING OF THE PANEL METAL DETECTOR GATE

- Robust construction in AISI 316L stainless steel
- Rubber-covered castor-type wheels for easy movement
- Incorporated handles for transport

(available only for 720 mm useful passage width: part # 50789)

➤ Test Samples Kit

Reference Samples for accurate verification of the Security Level. Includes guided procedures and certificate of calibration.

- Part # EMD-SK-GAL
- Part # EMD-SK-GDML

Specifications

KEY FEATURES	Wide range of threat detection from guns to ½ cutter blade		
	Excellent discrimination of personal metal effects		
	60 zones x 2 (entry and exit side) with left, center and right indication		
	Met-Identity technology identifies the metal type in real time		
	High precision bidirectional counter with automatic rescreening compensation		
	Chip Card capability for fast, simple, and secure programming		
	Random alarm capability programmable from 0% to 100%		
	Exceptional Immunity to external interferences		
	One touch automatic self installation (OTS)		
	Powered by safe low voltage DC		
	Standard Interfaces: RS-232, Bluetooth, Infrared		
	Other available interfaces: Ethernet, USB		
QUALITY	Continuous self diagnostic system		
	Proven reliability		
	No periodic re-calibration and preventive maintenance required		
	No scheduled maintenance		
	Fully digital design		
WALK-THROUGH GATE STRUCTURE	State-of-the-art, robust and washable panels		
	Protected against aging, weather and wear		
CENTRAL CONTROL UNIT	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 two levels of passwords		
ALARM SIGNALLING	**VISUAL SIGNALS**	Multi-zone display bar for "height on person" localization	
		4 light bars with selectable entry/exit and pacing indication	
		Green and red metering signals proportional to the mass of the detected target	
	AUDIO SIGNALS	10 selectable continuous and pulsed tone plus 34 special tones	
		10 selectable sound intensities ranging from 0 to 90 dbA at 1m	
TYPE OF SIGNALLING	**VISUAL**	Fixed or proportional to the mass in transit - visible from 6m under lighting of 4000lux	
	VISUAL ZONE INDICATION	60 distinct zones (20 vertical x 3 horizontal) entry and exit side	
PROGRAMMING	Over 40 built in security programs		
	Remote via RS-232, Infrared Remote Control Unit, Bluetooth™ or Ethernet 10/100 base T (option) interface		
	SECURITY LEVEL	International Standard (IS) command	
		Chip card	
	Local by Control Unit alphanumeric display and keyboard		
	Programming and chip card access protected by user and super-user passwords		
OPERATIONAL FEATURES	Very high discrimination and transit flow rates five or more times greater than other metal detection systems		
	Quick reset time as short as 0.2 seconds for high throughput rate		
	Very high detection speed (up to 50 ft/sec.)		
	Built-in operational functional verification		
	One-touch key reading of inbound, outbound and Security Level Data		
INSTALLATION DATA	Automatic synchronisation between two or more metal detectors with distance of down to 5 cm without the use of external cables		
	Automatic Installation function (OTS)		

Environmental Data

- **POWER SUPPLY :** 100...240V~ -10/+15%, 47...63Hz, 40 VA max
- **OPERATING TEMPERATURE**: -20°C to +70°C (-37°C to +70°C upon request)
- **STORAGE TEMPERATURE**: -37°C to +70°C
- **RELATIVE HUMIDITY**: 0 to 95% (without condensation)

Certification and Compliance

- Compliant with the applicable Standards for Enhanced Metal Detectors
- Compliant with the applicable electromagnetic Standards on Human Exposure and Pacemaker Safety
- Compliant with all Airport Security Standards worldwide
- Compliant with applicable International Standards for electrical safety and EMC
- Harmless to magnetic media (floppy disks, tapes, etc.)

Comprehensive support

CEIA PROVIDES FULL OPERATIONAL AND TECHNICAL TRAINING SUPPORT BY CERTIFIED PERSONNEL EITHER AT CEIA USA FACILITY OR AT CUSTOMER PREMISES

- phone technical support
- in-house repair/services
- standard and custom training