PMD2 Plus

45+ years of experience

ENHANCED WALK-THROUGH MULTI-ZONE METAL DETECTOR

- Superior Detection and Throughput
- Very High Discrimination of Non-Threat Items
- Compliant with the strictest Security Standards for weapons detection
- 60 localization zones:
 - 20 vertical 3 lateral
- Column and Panel versions
- Unmatched Reliability
- Rapid Installation



PMD2 Plus Panel version







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Strict requirements and detection needs call for security checkpoints to perform efficiently even under very challenging conditions. Choosing the right metal detector is essential.

Key considerations include identifying: the size and composition of the items to detect [**SECURITY LEVEL**], items and levels of personal effects to ignore [**DISCRIMINATION**], the number of people that will be passing through the checkpoint [**THROUGHPUT**]. These characteristics must be obtained even in environments with electrical and mechanical interferences, therefore the walk-through metal detector must present excellent immunity [**IMMUNITY**].

The **PMD2 Plus** Metal Detector satisfies all the requirements.

Detection Features



- Capability to detect the full range of metal weapon threats even within body cavities
- 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 PMD2 Plus detects firearms and knives of this type, even when they are hidden within body cavities, and accurately indicates 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.



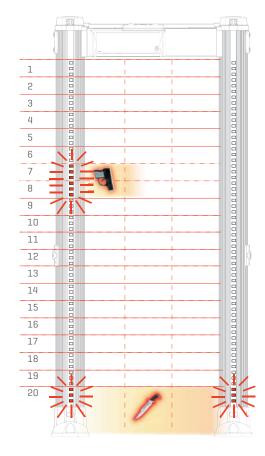
- 60 pinpointing zones with high resolution & precision:
 - 20 Vertical 3 Lateral



MET-IDENTITY TECHNOLOGY

With Met-Identity technology, the PMD2 Plus allows you to know where, how much and what type of metal is being brought into the secure area.





60 LOCALIZATION ZONES

with left, center and right indication

Unique Alarm Signaling



- 4 Multi-Zone Display Bars, each programmable as entry Stop/Go and/or local alarm indication
- High visibility of the control unit and the zone indication independent from the operator position and the installation environment

Accurate signaling is essential for best operation and flow management. The *PMD2 Plus* 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.



- Flexible Acoustic Alarm Signaling System:
 - ✓ 10 Continuous and Pulsed Tones
 ✓ 34 Special Sounds
- 10 Acoustic Intensity Levels

A complete acoustic alarm system allows personalization of the alarm tones and intensities, with a wide choice of continuous, pulsed and special tones at different levels of intensity. The wide volume control dynamic allows operation even in very noisy environments.



- High Precision Transit Counter:
 - ✓ In-Bound Transits
 - ✓ Out-Bound Transits
 - ✓ Alarm Rate
 - $\ensuremath{\overline{\mathbf{M}}}$ Automatic Compensation for repeated transits of the same person

The metal detector provides an automatic count of the people passing through the access point in both directions and the related nuisance alarm percentage.



4 MULTI-ZONE DISPLAY BARS

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



HIGH PRECISION TRANSIT COUNTER

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

Unmatched Throughput



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

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 PMD2 Plus has an extremely 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.





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 work program and save it in internal memory.



 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



CHIP CARD SYSTEM

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



 Continuous self diagnostics assures monitored performance reliability

Communication Capabilities



INFRARED REMOTE CONTROL

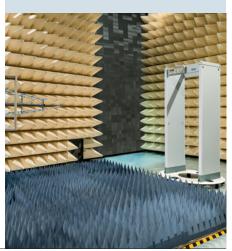


TYPE OF OPERATION	Ethernet	USB	Infrared	Bluetooth	RS-232
Maintenance	O	O		•	•
Remote Control	0		•	•	•
Remote Data Collection	0				

STANDARD O OPTION



Exceptional immunity to environmental interferences makes the Metal Detector easy to use even when electrical noise is encountered.



Model Selection

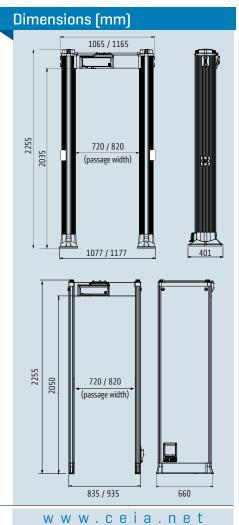
Features	PMD2 Plus/EZ	PMD2 Plus/PZ	
Gate - Shape	Elliptic Column	Panel	
Compliant with the strictest detection and discrimination standards for EMDs (Enhanced Metal Detectors)	•		
4 display bars each programmable as zone indicators and/or pacing lights	•		
60 localization zones (20 vertical x 3 lateral) with left, center and right indication	•	•	
Chip Card Reader	•		
Bluetooth, infrared and RS-232 communication	•	•	
3-Level Password and hardware key access protection	•		
Met-Identity technology (separate Ferrous and Non-Ferrous alarm signaling)	•	•	
One Touch Automatic Self Installation (OTS)	•	•	
Automatic Operational Functional Verification (OFV)	•	•	
Automatic Vibration Compensation (AVS, EVA)	•	•	
Automatic Channel Search (CS)	•	•	
Automatic Floor Gain Adjustment (FGA)	•	•	
Automatic Technical Functional Verification (TFV)	•	•	
Automatic Environmental Noise Compensation (ENA)	•	•	
Powered by safe low voltage DC	•	•	
Anti-tamper on/off switch	•	•	
High precision transit counter		•	
Programmable Random Alarm capability*		•	
Integrated web-server & logger (includes Ethernet and USB interface)			
Weather resistant protection			
Anti-vandalism, anti-tampering protection (with IP65 control unit)			
IP65 protection (IP65 control unit, IP67 power supply adapter, anti-vandalism protections, weatherproof gate structure, compliant with IEC 60950-22)			
Long life crossbar battery back-up	-		
Embedded battery charger and under-voltage protection	-		
820 mm useful passage width			

*Transit Counter required

■ STANDARD □ OPTION



PMD2 Plus is available in Panel and Elliptic Versions



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.

PANEL

- 720 mm passage width (part # 55630)
- 820 mm passage width (part # 55633)

ELLIPTIC

- 720 mm passage width (part # 55657)
- 820 mm passage width (part # 55658)







Anti-vandalism, Anti-tampering Protection

This option includes stainless steel IP65 control unit, waterproof mains power supply adapter, protection covers for power supply and antenna connection compartments, equipped with screws requiring tools for removal.

PANEL: Part # 55629







ELLIPTIC: Part # 55659







Long life Crossbar Battery Back-up

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



820 mm Useful Passage Width

ELLIPTIC: part # 55664 PANEL: part # 55635

Embedded Battery Back-up and Charger

Anti-tamper on/off switch, RS-232 interface, 35 minutes typical (25 minutes minimum) internal battery back-up with 12 hours mains disconnection diagnostic alarm.

PANEL: 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.

PANEL: part # APSiM2Plus/P





IP65 Protection

This option includes the Weather Resistant and Anti-vandalism kits.

PANEL

- 720 mm passage width (part # 55631)
- 820 mm passage width (part # 55632)

- 720 mm passage width (part # 55660)
- 820 mm passage width (part # 55661)

Integrated Web-server & Logger

Anti-tamper on/off switch, RS-232, USB, 10/100 baseT Ethernet interface, data logger, real-time clock, integrated web-server, statistical transit data analysis.

ELLIPTIC: part # APSiM2Plus/E





High precision Transit Counter

Two photocells fitted into the archway allow counting of transits, alarms and percentage of alarms. Panel versions are already equipped with transit counter.

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ELLIPTIC: part # 46982



Accessories

> Chip Cards

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

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 PMD2 Plus
- 5 hours typical charging time.

Part # MBSU-2



MD-Scope2

➤ RCU2

Powerful, PC based installation and service software. Includes oscilloscope and terminal functionality (part # MD-SCOPE2).

Control unit for full remote access, including

Through Metal Detectors (part # RCU2). The connection is performed via bluetooth

alarm signaling and programming of CEIA Walk

(standard) or via cable connection (part # 3618).

The connection is performed via bluetooth (standard) or via cable connection (part # 3805).



VISUAL ALARM

WITH ZONE INDICATION

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

Stabilizing Plates (elliptic version)

Comfortable alternative to direct floor mounting.

- Standard version: part # 64355
- · For uneven floor and mobile applications: part # 46938



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

Tool-free assembly kit (elliptic version)

This accessory allows the detector to be assembled and disassembled quickly and without tools.

Part # 55699



Waterproof Mains Power Supply

100W IP67 power supply for outdoor applications. It is provided with flanges for simple installation. Part # 43564

ID-Holder (panel version)

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 # 64987



Stainless Steel Deck Dolly (panel version) 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)



Metal Detector Divesting Table for management of personal metal belongings

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



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	Elliptic column shape or traditional panel versions available		Automatic Environmental Noise Compensation (ENA)			
	Wide range of threat detection from guns to ½ cutter blade		Met-Identity technology identifies and signals the metal type in real time			
	60 localization zones (20 vertical x 3 lateral) with left, center and right indication		High precision bidirectional counter with automatic rescreening compensation			
	One touch automatic self installation (OTS)		Chip Card capability for fast, simple, and secure programming			
	Automatic Operational Functional Verification (OFV)		Random alarm capability programmable from 0% to 100%			
	Automatic Vibra	tion Compensation (AVS,EVA)	Exceptional Immunity to external interferences			
	Automatic Chan	nel Search (CS)	Powered by safe low voltage DC			
	Automatic Floor	Standard Interfaces: Bluetooth, Infrared				
	Automatic Technical Functional Verification (TFV) 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	State-of-the-art, robust and washable panels or compact elliptical columns					
GATE STRUCTURE	Protected against aging, weather and wear					
CENTRAL	Ergonomic and robust design					
CONTROL UNIT	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					
ALARM SIGNALING	VISUAL	Multi-zone display bar for "height on person" localization				
	SIGNALS	4 light bars with selectable entry/exit and pacing indication				
		Green and red metering signals proportional to the mass of the detected target				
	AUDIO	10 selectable continuous and pulsed tone plus 34 special tones				
	SIGNALS	10 selectable sound intensities ranging from 0 to 90 dbA at 1m				
TYPE OF SIGNALING	VISUAL	Fixed or proportional to the mass in transit - visible from 6m under lighting of 4000lux				
	VISUAL ZONE INDICATION					
PROGRAMMING	Up to 50 built-in security programs (up to 30 International Standards, up to 20 Customizable Levels)					
	Remote via Infrared Remote Control Unit, Bluetooth $^{\!\top\!\!M}$ 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 15 m/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 (CDs, tapes, etc.)

Applications

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

Comprehensive support

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

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





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