PMD2 Plus/EZHD

ELLiptic, multi-Zone and Heavy Duty
Walk-Through Metal Detector

- Superior Detection and Throughput
- Very High Discrimination of Non-Threat Items
- 60 localization zones: 20 vertical 3 lateral
- Aesthetic, Unobtrusive and Light Weight
- Rapid Installation: no tools required for assembly
- Weather Resistant: IP65 protection
- Compliant with the strictest Security Standards for weapons detection
PMD2 Plus/EZHD
Enhanced Walk-Through Multi-Zone Metal Detector

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/EZHD is ideal for outdoor events or checkpoint locations that move frequently and features tool-free installation, weather-resistant protection [IP65] and ease of system use for screening personnel.

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/EZHD 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/EZHD allows you to know where, how much and what type of metal is being brought into the secure area.

- Ferrous Metal
- Non Ferrous Metal

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/EZHD 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
  - 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.

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/EZHD 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/EZHD. 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

Communication Capabilities

Extended communication capabilities including data networking for alarm and status supervision through wireless TCP/IP. The PMD2 Plus/EZHD can be fitted with the APSiM2 Plus Wireless Network Module.

<table>
<thead>
<tr>
<th>TYPE OF OPERATION</th>
<th>Ethernet</th>
<th>Infrared</th>
<th>Bluetooth</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maintenance</td>
<td></td>
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<tr>
<td>Remote Control</td>
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</tr>
<tr>
<td>Remote Data Collection</td>
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</tr>
</tbody>
</table>

- Bluetooth
- Web-Browser
- Network management

The APSiM2 Plus integrates a secure web server using state-of-the-art SSL and WPA2 security protocols.

The APSiM2 Plus can set up a local secure wireless network without requiring additional devices. The wireless network covers a 300ft wide area on open site conditions. Any authorized device capable of wireless connectivity and https browsing (such as tablet pc, smart phones and laptops) can access the following functionalities:

- Automatic monitoring of the self-diagnostics, battery level and security level of the installed PMD2 Plus/EZHD group.
- Visual representation of the transits flow through the PMD2 Plus/EZHD. The transits data is stored in the APSiM2 Plus for up one year and can be downloaded through date selection.
Rapid Installation

- One touch automatic installation (OTS)
  Innovative function assisting the installation through an automatic step-by-step procedure.
- Highly adaptable for installation in all environments
- Automatic Compensation function to adjust for windy environments
- Continuous self diagnostics assure monitored performance reliability
- Upper tie-down points available for stabilization in case of strong winds (up to 25 mph)

Breakthrough Value

- Industry Leader in Immunity against External Interferences
  Exceptional immunity to environmental interferences makes the metal detector easy to use even when electrical noise is encountered.
- Superior CEIA reliability allows maximum ROI
  The overall system is characterized by sturdy, reliable electronic and mechanical construction.
- No periodic re-calibration and preventive maintenance required
- Monolithic construction, high degree of protection against dust and water, and high stability

NEW BOOT DESIGN
Much higher stability.
## Model Configuration

<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>Reduced height for low-ceiling applications</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>4 display bars each programmable as zone indicators and/or pacing lights</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>60 localization zones (20 vertical x 3 lateral) with left, center and right indication</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>Chip Card Reader</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>Bluetooth and infrared communication</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>Programmable Random Alarm capability*</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>3-Level Password and hardware key access protection</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>Met-Identity technology (separate Ferrous and Non-Ferrous alarm signaling)</td>
<td>□</td>
<td>□</td>
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<tr>
<td>One Touch Automatic Self Installation (OTS)</td>
<td>□</td>
<td>□</td>
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<tr>
<td>Automatic Operational Functional Verification (OFV)</td>
<td>□</td>
<td>□</td>
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<tr>
<td>Automatic Vibration Compensation (AVS, EVA)</td>
<td>□</td>
<td>□</td>
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<tr>
<td>Automatic Channel Search (CS)</td>
<td>□</td>
<td>□</td>
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<tr>
<td>Automatic Floor Gain Adjustment (FGA)</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>Automatic Technical Functional Verification (TFV)</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>Automatic Environmental Noise Compensation (ENA)</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>Powered by safe low voltage DC</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>Weather resistant protection</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>Anti-vandalism, anti-tampering protection</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>IP65 protection (includes weather resistant and anti-vandalism options)</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>High precision transit counter</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>Integrated web-server &amp; logger</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>Transport case</td>
<td>□</td>
<td>□</td>
</tr>
</tbody>
</table>

- STANDARD □ OPTION  *Transit Counter required*

## Dimensions

### PMD2 Plus/EZHD

- Height: 81.3" (206.7 cm)
- Passage width: 28.3" (72 cm)

### PMD2 Plus/EZHD-N

- Height: 81.3" (206.7 cm)
- Passage width: 28.3" (72 cm)
Options

- **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.
  Part # APSIM2Plus/E

- **Fast, high precision transit counter**
  Two photocells fitted into the archway allowing counting of transits, alarms and percentage of alarms. Part # 62928

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-HD**
  Separate, compact long life power supply in stainless steel case and high protection degree (IP65), with embedded fast charger (Part # MBSU-2-HD):
  - 13.6 hours typical (10 hours minimum) continuous operation
  - 6.5 hours typical charging time

- **MD-Scope2**
  Powerful, PC based installation and service software. Includes oscilloscope and terminal functionality (part # MD-SCOPE2). The connection is performed via bluetooth (standard) or via cable connection (part # 3805).

- **RCU2**
  Control unit for full remote access, including alarm signaling and programming of CEIA Walk Through Metal Detectors (part # RCU2). The connection is performed via bluetooth (standard) or via cable connection (part # 3618).

- **IRC-1**
  Infrared Remote Controller for wireless remote programming of the control unit. Part # 47180

- **Ceiling power adapter** (Part # 63732)

- **Transport case**
  - Protects the metal detector during transport and storage
  - Facilitates moving the metal detector
  - Set to include all parts and accessories
  - Minimizes storage space
  - Dimensions: 92” x 16.5” x 30”
  - Weight (case only): 132 lbs
  Part # 57290 (Standard version)
  Part # 64296 (Navy version)

- **Elliptic Gate Protective Cover**
  Protective Cover is designed to protect the gate in permanent outdoor installations during periods of inactivity from water, ultraviolet rays, humidity, dirt, sand, temperature spikes and other environmental hazards. The Protective Cover is column-fitted, durable and weatherproof. Yet it is also breathable, allowing moisture to evaporate from inside.
  The cover is simple to install and to remove.
  Part # 64395
  Open the link below to see Elliptic Gate Protective Cover video:
  www.ceia.net/security/EllipticGateProtectiveCover.aspx?lan=us1

- **Stabilizing plates**
  Comfortable alternative to direct floor mounting.
  - Standard version: part # 46705
  - Outdoor version: part # 46706
  - For uneven floor and mobile applications: part # 46938

- **Upper tie-down points**
  Part # 64886

- **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**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wide range of threat detection from guns to ½ cutter blade</td>
<td>Automatic Environmental Noise Compensation (ENA)</td>
</tr>
<tr>
<td>Excellent discrimination of personal metal effects</td>
<td>Met-Identity technology identifies and signals the metal type in real time</td>
</tr>
<tr>
<td>60 localization zones (20 vertical x 3 lateral) with left, center and right indication</td>
<td>High precision bidirectional counter with automatic rescreening compensation</td>
</tr>
<tr>
<td>One touch automatic self installation (OTS)</td>
<td>Chip Card capability for fast, simple, and secure programming</td>
</tr>
<tr>
<td>Automatic Operational Functional Verification (OFV)</td>
<td>Random alarm capability programmable from 0% to 100%</td>
</tr>
<tr>
<td>Automatic Vibration Compensation (AVS,EVA)</td>
<td>Exceptional Immunity to external interferences</td>
</tr>
<tr>
<td>Automatic Channel Search (CS)</td>
<td>Powered by safe low voltage DC</td>
</tr>
<tr>
<td>Automatic Floor Gain Adjustment (FGA)</td>
<td>Standard Interfaces: Bluetooth, Infrared</td>
</tr>
<tr>
<td>Automatic Technical Functional Verification (TFV)</td>
<td>Other available interfaces: Ethernet</td>
</tr>
</tbody>
</table>

**QUALITY**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Continuous self diagnostic system</td>
<td>Proven reliability</td>
</tr>
<tr>
<td>No periodic re-calibration and preventive maintenance required</td>
<td>No scheduled maintenance</td>
</tr>
<tr>
<td>Fully digital design</td>
<td></td>
</tr>
</tbody>
</table>

**WALK-THROUGH GATE STRUCTURE**

State-of-the-art, robust, washable and compact elliptical columns

**CENTRAL CONTROL UNIT**

Ergonomic and robust design

High visibility alphanumeric display and programming keyboard

Stainless steel and anti-vandalism construction

Access to the front panel protected by hardware key and 3 levels of passwords

**ALARM SIGNALING**

**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 SIGNALING**

**VISUAL ZONE INDICATION**

- 60 distinct zones (20 vertical x 3 lateral) entry and exit side

**PROGRAMMING**

Up to 50 built in security programs

Remote via 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 6” (15 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**: -4°F to 158°F (-35°F to 158°F upon request)
- **STORAGE TEMPERATURE**: -35°F to 158°F
- **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.)

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

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

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