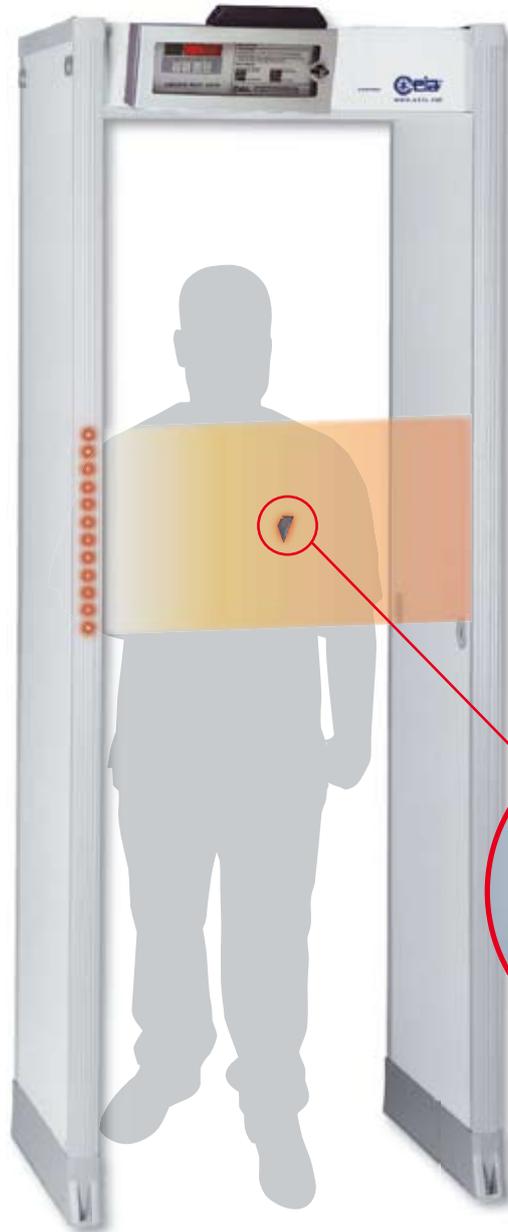


# SMD600 Multi-Zone

## ULTRA HIGH SENSITIVITY METAL DETECTOR



ANTI-VANDALISM  
CONTROL UNIT (IP65)



[www.ceia.net](http://www.ceia.net)



*Ultra High Sensitivity to all Metals*

*Highly Visible Double Display provides single or multiple location of metal objects in transit*

*Extremely High Reliability*

*Very High Immunity to External Interference*

*Local or Remote Programming with Networking Capabilities*

# SMD600 Multi-Zone

## ULTRA HIGH SENSITIVITY METAL DETECTOR



The CEIA SMD600 Multi Zone is an **ultra-high sensitivity Walk-Through Metal Detector** designed to satisfy the strictest security requirements, especially in **penitentiaries and other applications where the detection of extremely small metal masses is required** (for example: loss prevention), even if hidden in body cavities.

The SMD600 Multi Zone is characterised by **very high immunity to electrical interference** in the surrounding environment as well as mechanical vibrations; as a result, it can be installed in those environments where the standard Metal Detectors could not be installed before.

A **full-height light bar displays the horizontal location of the detected metal masses in transit**. This results in rapid identification of threat and a reduction, or elimination, of manual searches.

The **Anti-Vandalism Control Unit (IP65 in stainless steel)** is incorporated into the structure of the Metal Detector. Access to programming is protected both by a mechanical lock and by two alphanumeric passwords.

The SMD600 Multi Zone is manufactured using the most advanced electronics technology, conforming to **ISO 9001 Quality Control Standard procedures**.

## TECHNICAL DATA



### MAIN FEATURES

- Immediate selection of International Security Standards
- Detection of magnetic, non-magnetic and mixed alloys metal weapons
- All functions programmable and controlled by a microprocessor
- Programming: via built-in keypad and display or RS232 serial connection to Remote Control Unit (RCU), a PC or a computer network
- Programming access protected by both a mechanical lock and by two alphanumeric passwords
- High detection speed: up to 15 m/s (45 ft/s)
- Very high immunity to electromagnetic and mechanical interference
- Automatic synchronization between two or more metal detectors, at a distance of down to 5 cm without using cables
- Professional high integration and high reliability electronics.
- Control unit incorporated into the detector.
- No initial or periodic calibration
- Easy maintenance: modular control unit for a rapid replacement
- Colour: light grey RAL 7040.

### INSTALLATION DATA

- Power Supply:  
115 / 230 Vac,  $\pm 15\%$ , 50 ÷ 60 Hz, 30 VA max
- External interface: RS-232C for connection to a Remote Control Unit (RCU), a terminal, a computer, an external modem or other CEIA metal detectors
- Operating temperature:  
- IP20: from -10°C to +65°C;  
- IP65: from -20°C to +70°C
- Relative humidity: from 0 to 95% (without condensation).

### CERTIFICATION AND CONFORMITY

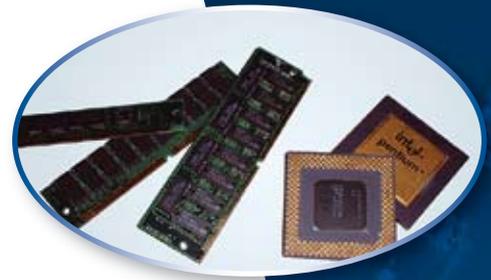
- Complies with Regulations relating to pacemakers, defibrillators or other vital support systems, pregnant women and magnetic storage media (floppy disks, audio cassettes, video cassettes and similar)
- Complies with EC Regulations and International Standards relating to Electrical Safety and Electromagnetic Compatibility (EMC).

### ALARMS

- **Visible signals**
  - Multi-zone display bar for "height on person" localization
  - High intensity display
  - Green and red metering signals proportional to the mass of the object detected
- **Audible signals**
  - High acoustic intensity alarm signal
  - Volume and tone of alarm signal can be programmed.

### ACCESSORIES / OPTIONS

- Photocell transit counter and automatic alarm rate calculation
- Remote Control Unit (CEIA RCU) with 20 m of connection cable
- Outdoor Version (IP65)
- Test samples
- Internal emergency back-up batteries and automatic charger, providing 30 minutes of independent operation
- External Main Battery Supply Unit MBSU-1, including emergency batteries and automatic charger, providing about 8 hours of independent operation
- MD Scope: software for oscilloscope simulation and terminal operation on CEIA Metal Detectors
- Ethernet Network Controller for CEIA Metal Detectors.



SOME OF THE ITEMS DETECTABLE WITH THE SMD600 MULTI ZONE

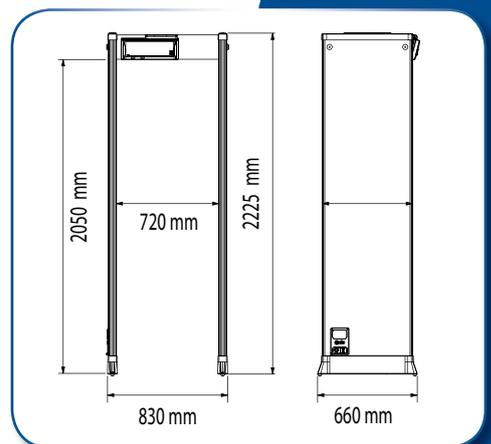
### UNDER THE ALARM THRESHOLD

- \* 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



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