

# SMD601™

*The Most Advanced Multi-Zone Metal Detector for Law Enforcement and Correctional Facilities*



[www.ceia-usa.com](http://www.ceia-usa.com)

**Very High Sensitivity** to magnetic and non-magnetic metals and to stainless steel

**Complies with new Standard NIJ-0601.02\***

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

**Very accurate pinpointing** of individual and multiple metal masses

**Extremely high level of immunity** to electrical and mechanical interference

**Local or Remote Programming with Networking Capabilities**

\* NIJ IS NATIONAL INSTITUTE OF JUSTICE - U.S. DEPARTMENT OF JUSTICE

# SMD601™

## THE MOST ADVANCED MULTI-ZONE METAL DETECTOR

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The CEIA SMD601™ is a Multi-Zone Walk-Through Metal Detector specifically designed to comply with the new **NIJ Standard-0601.02** (U.S. Dep. of Justice). The Standard **establishes new requirements of Sensitivity, Discrimination and Immunity** for Law Enforcement and Correctional Facilities.

This is an extremely sensitive device for the **detection of conventional weapons**, such as pistols and knives, **as well as small, hard-to-find items, normally difficult to detect**, that could be considered a threat to officer and prisoner safety.

The **three levels of Security specified by the Standard** (Large, Medium and Small object size) **are pre-loaded in the Metal Detector, and can be selected directly by the user via a simple operation at the control unit.**

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 the need for 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.



HIGH-INTENSITY DISPLAY BAR DETAIL

## TECHNICAL DATA

### MAIN FEATURES

- **Immediate selection (parameter IS) of Security Levels** specified by NIJ Standard-0601.02
- **Additional Threat Levels selectable by Chip-Card**
- Detection of magnetic, non-magnetic and mixed alloy metal weapons
- All functions programmable and controlled by a microprocessor
- Photocell transit counter and automatic alarm rate calculation
- 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 two alphanumeric passwords
- High speed of detection: up to 45 ft/s (15 meters per second)
- Very high immunity to electromagnetic and mechanical interference
- Automatic synchronization between two or more metal detectors, at a distance of down to 7.87" inches (20 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, ±15%, 50 ÷ 60 Hz, 40 VA
- 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: from 14 °F (-10 °C) to 149 °F (+65 °C)
- Storage temperature: from -31 °F (-35 °C) to 158 °F (+70 °C)
- Relative humidity: from 0 to 95% (without condensation).

### CERTIFICATION AND CONFORMITY

- Compliant with the Human Exposure Safety Requirements specified by NIJ Standard-0601.02.
- Compliant with EC Regulations and International Standards relating to Electrical Safety and Electromagnetic Compatibility (EMC).

### ALARMS

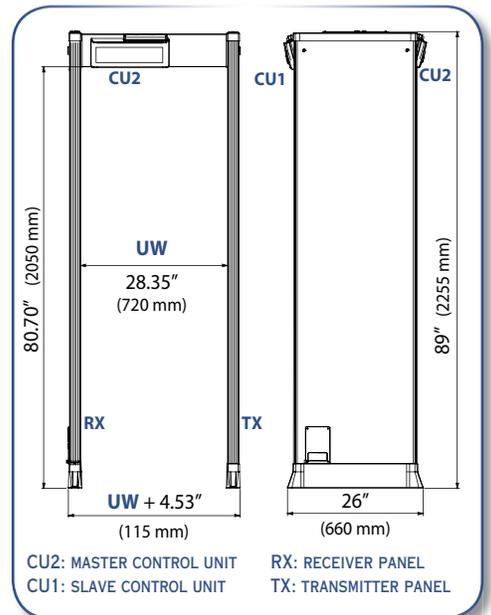
- **Visible signals**
  - Multi-zone display bar for "height on person" localization
  - High intensity display
  - Green and red metering signals proportional to the mass of the object detected
- **Audible signals**
  - High acoustic intensity alarm signal
  - Volume and tone of alarm signal can be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

### ACCESSORIES / OPTIONS

- NIJ Standard-0601.02 test samples
- Remote Control Unit (CEIA RCU) with 65.6 ft (20 m) of connection cable
- External Main Battery Supply Unit MBSU-1, including emergency batteries and automatic charger, providing about 5 hours of independent operation
- MD Scope: software for oscilloscope simulation and terminal operation on CEIA Metal Detectors
- Ethernet Network Controller for CEIA Metal Detectors.



ANTI-VANDALISM CONTROL UNIT (IP65)



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