

# SMD601



THE MOST ADVANCED MULTI-ZONE METAL DETECTOR  
FOR LAW ENFORCEMENT AND CORRECTIONAL FACILITIES



COMPLIES WITH NEW  
STANDARD NIJ-0601.02\*

- **Very high Sensitivity** to magnetic and non-magnetic metals and to stainless steel
- **Quick, accurate analysis of all parts of the body** of people in transit
- **Very accurate pinpointing** of individual and multiple metal threats
- **Exceptional and Unsurpassed Immunity** to Environmental Interference



\* NIJ STANDARD-0601.02:  
"Walk-Through Metal Detectors  
for Use in Concealed Weapon  
and Contraband Detection"

# SMD601 Multi-Zone Metal Detector



## FOR LAW ENFORCEMENT AND CORRECTIONAL FACILITIES

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.

### 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 15 meters per second (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 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,  $\pm 15\%$ , 50 + 60 Hz, 40 VA max

**EXTERNAL INTERFACE:** RS-232C for connection to a Remote Control Unit (RCU2), a terminal, a computer, an external modem or other CEIA Metal Detectors

**OPERATING TEMPERATURE:** -20°C to +70°C

**STORAGE TEMPERATURE:** -35°C to +70°C

**RELATIVE HUMIDITY:** 0 to 95% (without condensation)

### ALARM MODES

**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

### 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)

### ACCESSORIES / OPTIONS

**RCU2:** the console provides complete remote control of CEIA Walk-Through Metal Detector functions.

**MDNC-1:** Ethernet network interface for CEIA Metal Detectors

**KIT OFV:** operator-level functionality test

**KIT FGA & TFV:** functionality test and adjustment of gain at ground level

**MBSU-1 Unit** is a portable device designed to supply CEIA Metal Detectors in outdoor applications or in situations where mains power supply is unavailable

**MD SCOPE:** software for oscilloscope simulation and terminal operation on CEIA MDs

### METAL DETECTOR DIVESTING TABLE

**APSIM:** connection module with Anti-tamper on/off switch and Ethernet interface

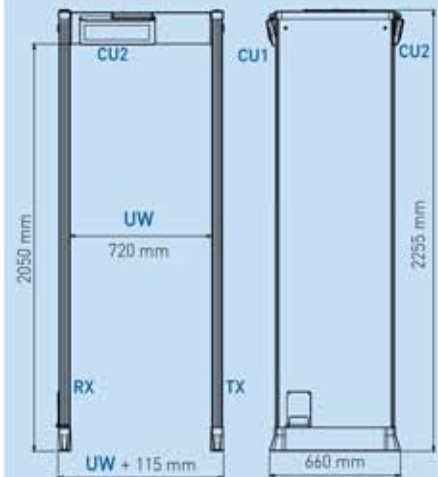


ANTI-VANDALISM CONTROL UNIT (IP65)



HIGH-INTENSITY DISPLAY BAR DETAIL

### DIMENSIONS



CU2: master control unit

CU1: slave control unit

RX: receiver panel

TX: transmitter panel



CEIA PROVIDES FULL OPERATIONAL AND TECHNICAL TRAINING SUPPORT; ON SITE OR AT HEADQUARTERS BY CEIA CERTIFIED PERSONNEL

