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security



defence

WTsMZ – Multi-Zone Metal Detector

The SMD601 is a Multi-Zone Walk-Through Metal Detector specifically designed to comply with the 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.

NIJ STANDARD-0601.02



Small Object Size
(Hard to find items)
(Handguns)



Medium Object Size
(Knives)



Large Object Size

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.

Features

- ▶ 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.

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



WI Code: 10118

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The Association of
Police and Public
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The Defence
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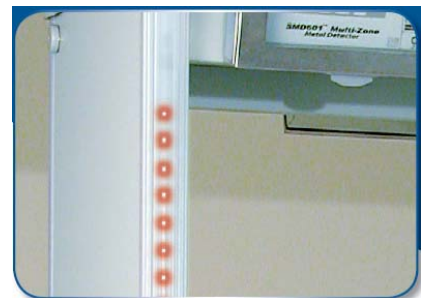
Technical Data

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 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.



Anti-Vandalism Control Unit (IP65)



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).

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 (RCU), a terminal, a computer, an external modem or other SMD Metal Detectors;
- ▶ Operating temperature: from -10°C to $+ 65^{\circ}\text{C}$;
- ▶ Relative humidity: from 0 to 95% (without condensation).

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.

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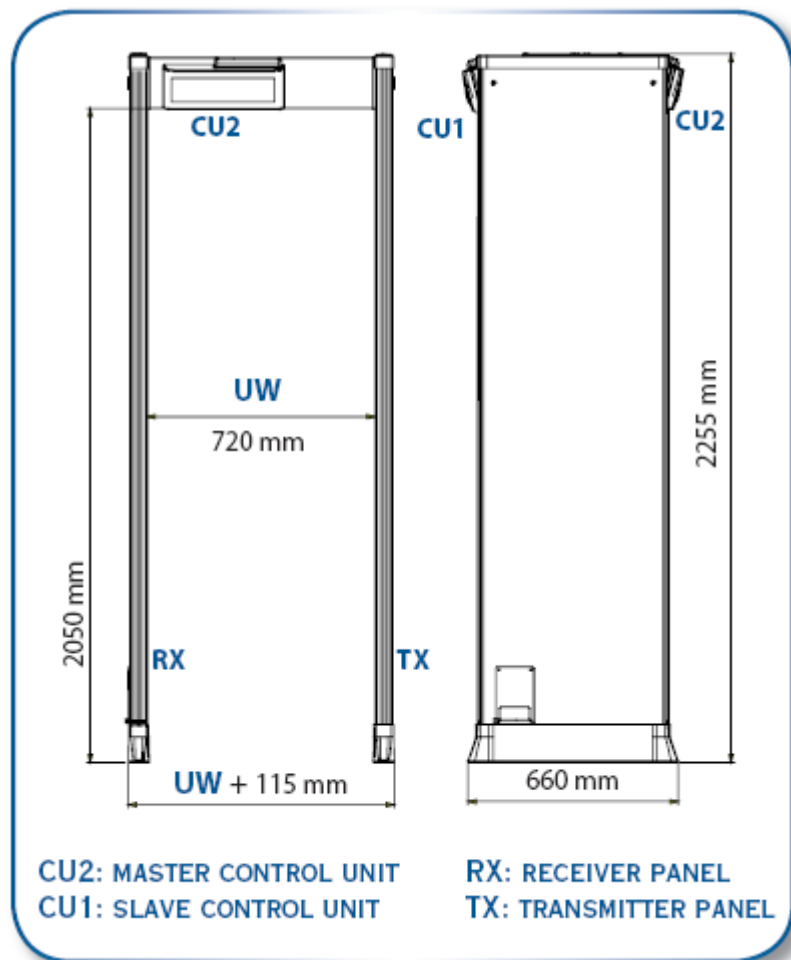


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Accessories / Options

- ▶ NIJ Standard-0601.02 test samples;
- ▶ Remote Control Unit (RCU) with 20 m (65.6 ft) 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 SMD Metal Detectors;
- ▶ Ethernet Network Controller for SMD Metal Detectors.

Dimensions



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