

SAMD[®]

Advanced Shoe and Leg Scanner


- Automatic Detection of Weapons hidden in shoes and simultaneous discrimination of shoe metal components
- Fast, non-intrusive and effective
- Increase in Screening Throughput
- Conforms to European Detection Requirements for Airport Security



Automatic step-by-step guide

■ Ease of use and Ergonomic Design

USE OF THE CEIA SAMD SHOE ANALYZER IS SIMPLE AND STRESS-FREE FOR BOTH INSPECTED PEOPLE AND SCREENERS. MINIMAL ANALYSIS TIME

Large detection coverage with uniform sensitivity 



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Threat Detection through Electromagnetics

**SAMD**

Advanced Shoe and Leg Scanner

At the very high Security Levels today required for Walk-Through Metal Detector inspection, a percentage of shoes containing significant metal masses causes the WTMD alarm, thus requiring additional/supplementary screening. Metal masses still cause alarms during transit and therefore have to be examined by security. This may cause inconvenience to passengers in transit and engage screeners in longer inspection processes.

In the light of this new operational scenario, CEIA has developed the SAMD Shoe Analyzer to check shoes worn by passengers without having to remove them, employing low-frequency electromagnetic fields which are non-ionizing and completely harmless.

The SAMD Shoe Analyzer is an extension of the Walk Through Metal Detector Gate, which complies with the most recent, stringent security requirements and reduces by up to 10 times or more the number of shoes that must be examined manually because of metal alarm.

According to the current EU Regulation for WTMDs the CEIA SAMD provides a programmable random alarm function for supplementary inspection requirements.

Specifications

SPECIAL FEATURES

TECHNOLOGY

- Professional high-integration, optimum-reliability electronics
- D.S.P. analysis with numeric filter of the signal received (patented)
- High immunity demodulation of the signals
- Exceptional discrimination

SIGNALLING

- Display of use instructions

PROGRAMMABILITY

- Chip card system for direct selection of the operating mode, according to International Security Standards or customer requirements. The use of the card may be protected by password
- Programmability of all the parameters protected by passwords

ANALYSIS TIME

- Very fast analysis time for a rapid flow-rate (2 seconds)

MULTIPLE INSTALLATIONS

- Automatic synchronisation between 2 or more devices with a reciprocal distance of as little as to 1 m without the use of cables

REMOTE CONTROL

- Capacity for total remote control through an RS-232C serial line

INSTALLATION AND MAINTENANCE

- Automatic adjustment to environmental parameters and no need for initial or periodic calibrations.
- Proper environmental installation checked by means of a read-out of the general noise "GN" and electromagnetic noise "EN".
- Complete interchangeability of electronics units and antennae thanks to the repeatability of the manufacturing processes
- Functionality tests can be carried out using accessory kit

CENTRAL ELECTRONICS UNIT

DEGREE OF PROTECTION: IP 20 (IEC 60529), with standard casing

DIMENSIONS (mm) AND WEIGHT: 380 x 157 x 82; 1,5 kg

INSTALLATION DATA

POWER SUPPLY: 115/230V~ ±15%, 50 ÷ 60 Hz, 30 VA

COMMUNICATION CAPABILITY

- RS-232 serial interface
- Ethernet network interface

ETHERNET NETWORKING FUNCTIONS AVAILABLE THROUGH THE CEIA NetID MANAGEMENT SOFTWARE

- Programming
- Statistical Data Collection
- Maintenance
- Firmware upgrade

WORKING TEMPERATURE: -20 to +70°C

STORAGE TEMPERATURE: -35 to +70°C

RELATIVE HUMIDITY: 0 - 95% without condensation

PROBE

Designed and built using advanced technological criteria, the probe is extremely robust and stable, yet elegant and fully protected against the effects of weather and wear-and-tear

TOTAL WEIGHT: 60 kg

DIMENSIONS (mm): 546 x 605 x 970

ALARM MODES

- Detection of metallic masses
- Sabotage or internal self-diagnosis

TYPE OF SIGNALLING

- **Visual:** fixed or proportionate to the mass in transit - visible from 6m under lighting of 4000lux.
- **Audio:** programmable up to 90 dB(A) at 1m

CERTIFICATION AND CONFORMITY

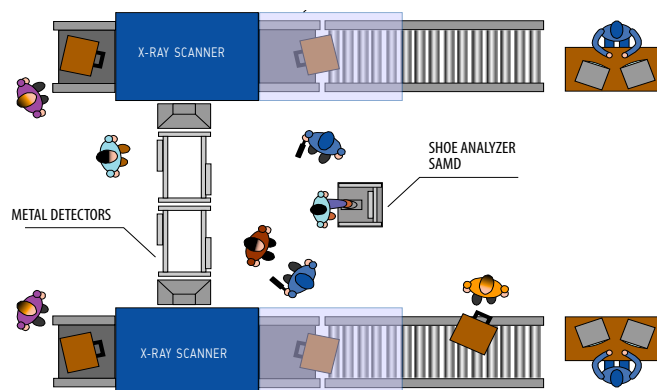
HARMLESSNESS

- Certified as harmless to wearers of pacemakers, pregnant women and so forth
- Harmless to magnetic media

STANDARDS

- Conforms to the detection requirements of EU Reg. N°1862/2006 and N°185/2010
- Conforms to the provisions of EU Reg N°857/2005 for Airport Security
- Conforms to the international standards currently applicable for electrical safety and EMC, and to the applicable EC Regulations.
- Conforms to all Airport Security Standards worldwide

SUGGESTED LAYOUT



Description and operation

1

SAMD CONTROL UNIT SHOWS THE PLACE FOOT MESSAGE

2

THE OK MESSAGE MEANS THE SHOE HAS BEEN INSPECTED WITH NO DETECTION OF A METAL THREAT

3

THE REMOVE MESSAGE INFORMS THE PASSENGER OF THE COMPLETION OF THE ANALYSIS

4

IN CASE OF DETECTION, SAMD GENERATES AN ACOUSTICAL AND A VISUAL RED ALARM



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CEIA reserves the right to make changes, at any moment and without notice, to the models (including programming), their accessories and options, to the prices and conditions of sale

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