SAMD®

SHOE ANALYZER

An ISO 9001 Company

- Conforms to the detection requirements of **EU Reg. N°1862/2006**
- Conforms to the provisions of **EU Reg. N°857/2005 for Airport Security**
- **Automatic Detection of Weapons hidden in shoes and simultaneous discrimination** of the metal components of the shoes
- **Increase in Passenger Flow Rate**
- **Up to 10 fold reduction** in the number of shoes that must be examined manually

LARGE ANALYSIS VOLUME
WITH UNIFORM SENSITIVITY

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

www.ceia.net

SAMD SHOE ANALYZER

The dramatic events of 11th September 2001 caused **the Airport Security Authorities to strengthen checks on passengers and their personal effects**.

Notwithstanding the extremely high discrimination capability of last-generation CEIA walk-through Metal Detectors, a certain percentage of shoes containing significant metal masses still cause alarms during transit, and therefore have to be examined by security staff with another inspection system – usually the X-ray scanner – to ensure that there are no meal weapons hidden in them. This obviously causes inconvenience to the passengers in transit.

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.

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 (patented)
- Exceptional discrimination

SIGNALLING
- Immediately-available display of security level

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 529), with standard casing

DIMENSIONS AND WEIGHT: IP 20: 380 x 157 x 82 mm; 1,5 kg

INSTALLATION DATA

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

SERIAL INTERFACE: RS-232C type with low impedance for connection to terminal, computer or external modem at a distance of up to 100 m

WORKING TEMPERATURE: -20 to +70°C

STORAGE TEMPERATURE: -35 to +70°C

RELATIVE HUMIDITY: 0 to 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

ALARM MODES

SIGNALLING
- 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**: fixed 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
- 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

DESCRIPTION AND OPERATION

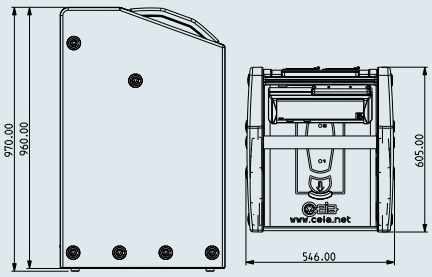
SAMD CONTROL UNIT SHOWS THE **PLACE FOOT** MESSAGE

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

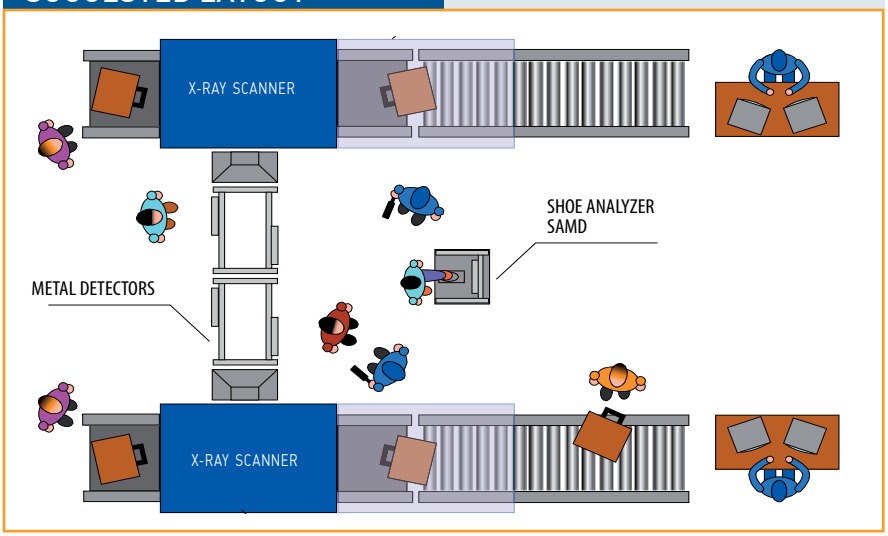
THE **REMOVE MESSAGE** INFORMS THE PASSENGER OF THE COMPLETION OF THE ANALYSIS

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

DIMENSIONS



SUGGESTED LAYOUT



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