SAMD®

SHOE SCANNER

45+ years of experience

Conforms to Reg. EU 2015/1998

- 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 Scanner is simple and stress-free for both inspected people and screeners. Minimal Analysis time

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.

In the light of this new operational scenario, **CEIA has developed the SAMD 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 Scanner 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.

CEIA® An ISO 9001 Company CERTIFIED

www.ceia.net

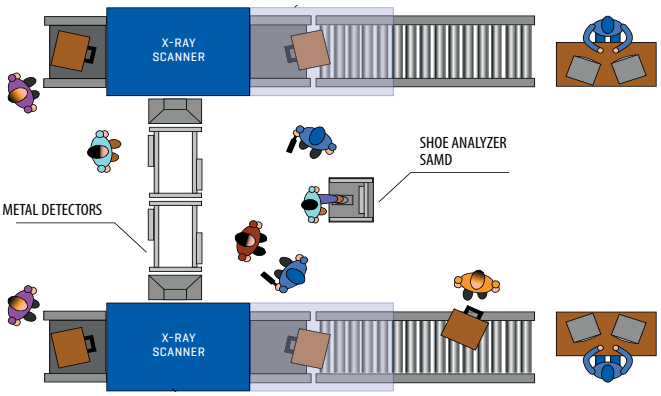
EMD+

Threat Detection through Electromagnetics

SAMD - Specifications

OPERATIONAL 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
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: 50 kg	
CENTRAL ELECTRONICS UNIT	Degree of protection	IP 20 (IEC 60529), with standard casing
	Dimensions and weight	380 x 157 x 82mm; 1,5 kg
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
INSTALLATION DATA	Power supply	100 ÷ 240 Vac, 50 ÷ 60 Hz, 40 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°C to +70°C
	Storage temperature	-35°C to +70°C
	Relative humidity	0 to 95% without condensation

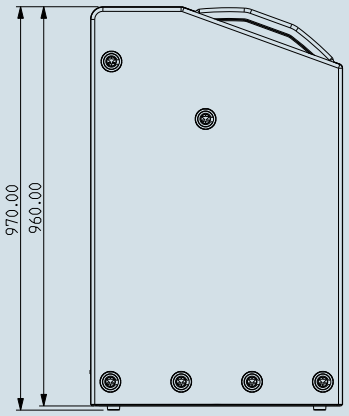
SUGGESTED LAYOUT

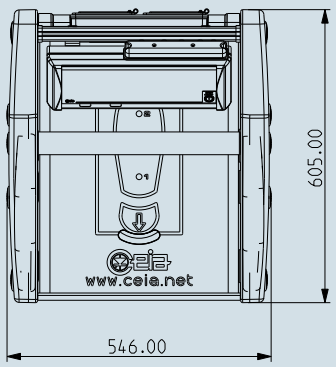


Certification and conformity

- Conforms to Commission Implementing Regulation (EU) 2015/1998
- Conforms to all Airport Security Standards worldwide
- Compliant with the applicable electromagnetic Standards on Human Exposure and Pacemaker Safety
- Conforms to the international standards currently applicable for electrical safety and EMC, and to the applicable EC Regulations.
- Harmless to magnetic media (CDs, tapes, etc.)

Dimensions (mm)





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