

SAMDEX[®]

SHOE EXPLOSIVE (SED) & METAL (SMD) DETECTOR



STAC
CERTIFIED
(FR)

DfT
APPROVED
(UK)

BPOL
CERTIFIED
(DE)

NCTV
APPROVED
(NL)

KEY FEATURES

- **SED & SMD** integrated unit
- **CERTIFIED** against relevant detection standards for explosive and metallic threats
- **BULK DETECTION**, based on actual material properties measurement
- **CLEAR “OK/ALARM” RESULT**
- **INCREASED CHECKPOINT THROUGHPUT** by elimination of shoe divestiture and X-ray check
- **INCREASED COMFORT:** passengers keep their shoes on
- **ERGONOMICS:** simple and stress-free use. Easy-to-grip handle for safe use
- **ANALYSIS TIME: 2 SEC.** typical/shoe
- **NETWORK:** Ethernet connection and NetID compatible



GUIDED USE IS PROVIDED THROUGH PROPER GRAPHIC ANIMATIONS.



w w w . c e i a . n e t

Threat Detection through Electromagnetics

SAMDEX® is the first equipment with double technology for the simultaneous detection of metallic and explosive threats concealed in passenger shoes without the need of divesting shoes.

An automatic step-by-step guide to use of the analyser addresses both the person being inspected and the security inspector via visual and audio messages.

OPERATIONAL SEQUENCE



Position **LEFT FOOT** on the platform and wait until the analysis of the shoe has been completed.



Position **RIGHT FOOT** on the platform and wait until the analysis of the shoe has been completed.



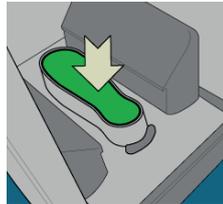
Analysis successfully completed without alarm.
END OF INSPECTION.



SHOE ALARM
Proceed with X-ray inspection of the shoes.

OFV OPERATIONAL FUNCTIONALITY VERIFICATION

The **SAMDEX® detector** provides a **step-by-step guided procedure** to perform an **OFV**.



The display asks for the green sample



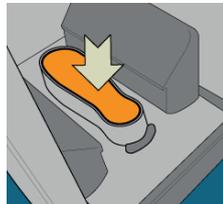
Place the green sample



Remove your hand



Wait for the analysis



The display asks for the orange sample



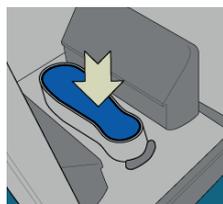
Place the orange sample



Remove your hand



Wait for the analysis



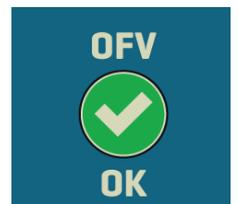
The display asks for the blue sample



Place the blue sample



Remove your hand



OFV successful

EXAMPLES OF SAMDEX® USE



Passenger Screening by Walk-Through Metal Detector (**WTMD**), Shoe Scanner (**SAMDEX**) and passenger body control through **PAT-DOWN**

Passenger Screening by passenger body control through Security Scanner (**JANUS**) and Shoe Scanner (**SAMDEX**)



Passenger Screening by Walk-Through Metal Detector (**WTMD**), Shoe Scanner (**SAMDEX**) and passenger body control through Explosive Trace Detector (**ETD**)

SPECIFICATIONS



KEY FEATURES

- Designed and built using advanced technological criteria, the detector structure is extremely robust and stable, yet elegant and fully protected against the effects of weather and wear-and-tear
- 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 of innocuous parts usually present in shoes
- Immediately-available display of security level and detector configuration

ANALYSIS TIME Very reduced analysis time for a rapid flow-rate (typical: 2 seconds per shoe)

INPUTS OUTPUTS **Power supply** 100-277V~, 50-60 Hz, 1.8A

ALARM MODES **Signalling**

- Detection of metallic and explosives threats
- Random alarm
- Same foot sequence assistant
- Safety shoe recognition
- Metal anomaly recognition (prosthetics)
- Interrupted analysis
- Sabotage or internal self-diagnosis



Type of signalling

- Visual, via 5.7" TFT display
- Audio, adjustable for
 - 10 selectable sound intensities ranging from 0 up to 85 dbA at 1m
 - 44 selectable continuous and pulsed tones

ENVIRONMENTAL CONDITIONS

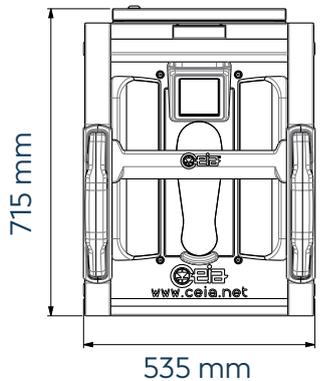
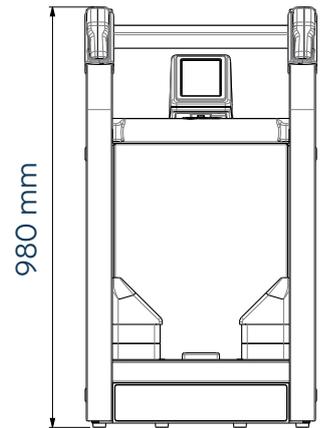
- Dimensions** 535mm x 715 mm x 980 mm
- Weight** 120 kg
- Protection degree (IEC60529)** IP20 (for indoor use only)
- Operating temperature** -10°C to +55°C
- Storage temperature** -37°C to +70°C
- Relative humidity** 0-95%, without condensation

CERTIFICATION AND CONFORMITY

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

SAMDEX compliance to operational requirements has been successfully verified by Government-Authorized Laboratories.

DIMENSIONS (mm)



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