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SAMD Shoe Analyzer



INTRODUCTION

At the very high Security Levels today required for Walk-Through Metal Detector inspection, a percentage of shoes containing significant metal masses cause the alarm of the WTMD requiring a secondary screening.

The secondary screening is usually performed with X-Ray machine, asking the passenger to remove the shoes. This procedure is uncomfortable for the person under screening and slow down the inspection process.

The CEIA SAMD Shoe Analyzer is designed to overcome the inconvenience currently experienced in examining passengers' shoes and to increase the throughput.

DISCRIPTION AND OPERATION

A "STEP" STRUCTURE designed so that the person being examined only has to place his/her foot in a well-defined area indicated by a positioning "footprint" engraved on the upper surface of the step.

A PAIR OF PANELS CONTAINING THE FIELD GENERATING AND RECEPTION ANTENNAE mounted vertically, similar to a walk-through Metal Detector, so as to guarantee a valid, uniform signal even if weapons are located at ankle height or above.

COMPACT, NON-OBSTRUCTIVE CONSTRUCTION, characterized by its high degree of robustness and structural stability.

AN AUTOMATIC STEP-BY-STEP GUIDE, to use of the analyzer, which addresses both the person being inspected and the security inspector via visual and audio messages.



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 ON THE COMPLETION OF THE ANALYSIS

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

ADVANTAGES AND PERFORMANCE

ABSOLUTE ANALYSIS

- Analysis of the shoes is not carried out differentially but absolutely without any comparison between the two shoes.

ANALYSIS VOLUME

- Analysis of the shoes is not limited to the soles or the parts immediately adjacent to them but covers the leg to calf height without variations in sensitivity or loss of performance. This guarantees Security even in the case of weapons of minimum signal carried at the ankle or above.

IMMUNITY

- No influence from metal structures underground (e.g. reinforced concrete floors).
- Detection performance independent from installation environment.

DISCRIMINATION

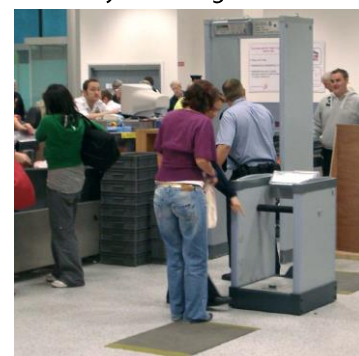
- Using the SAMD Shoe Analyzer at the high level of sensitivity required today by the latest Standards it is possible to reduce up to ten or more times the number of shoes that have to be checked manually with a significant throughput increase.

REDUCED OPERATIONAL COSTS

- Reduction of operational costs is obtained thanks to the throughput increase.

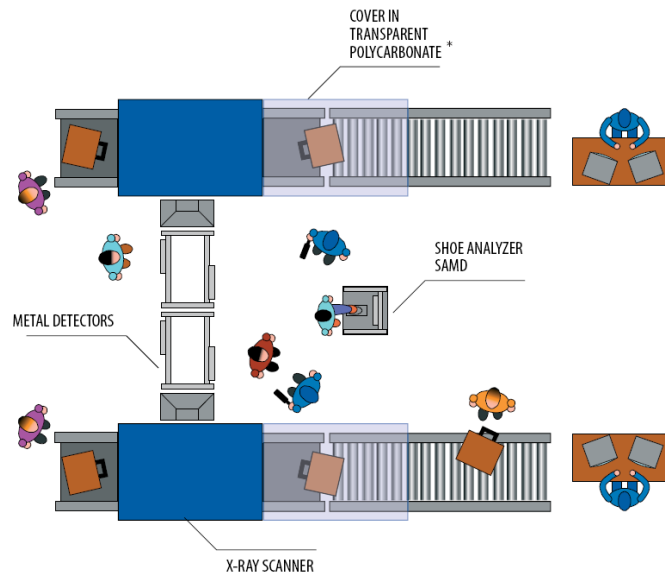
EASE OF USE AND ERGONOMIC DESIGN

- Use of the CEIA SAMD Shoe Analyzer is simple and stress-free for both inspected people and screeners.



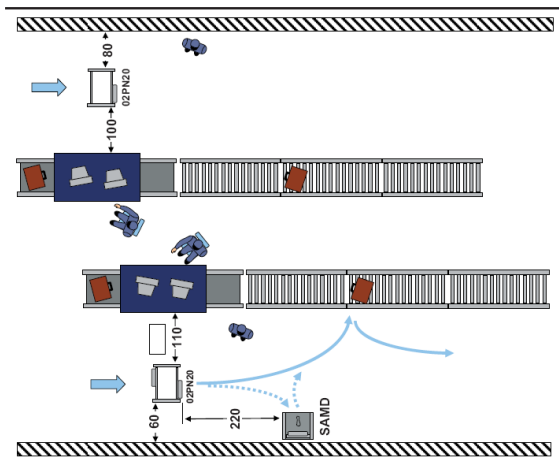
IMPLEMENTATION OF CEIA SAMD SHOW ANALYZER

SUGGESTED LAYOUT

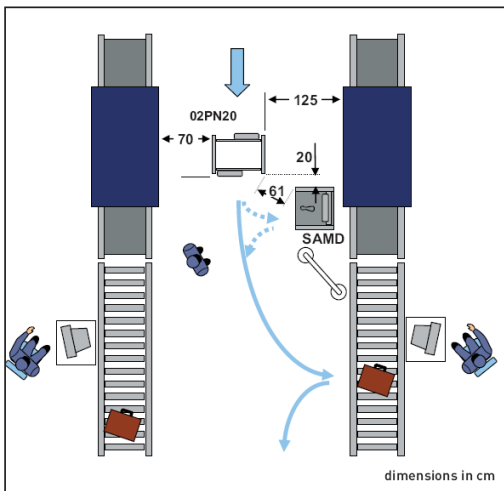


* The polycarbonate covering leads the passengers to collect the luggage down to the area occupied by the SAMD

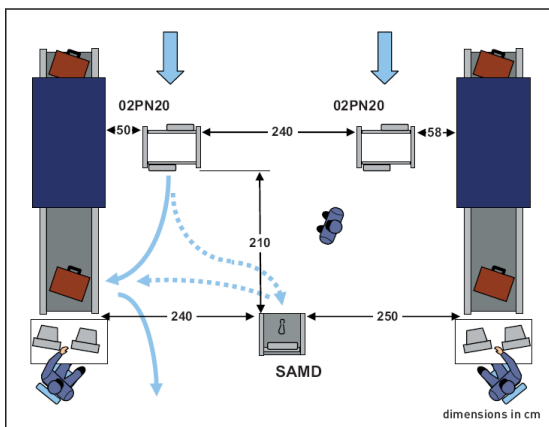
EXAMPLE OF INSTALLATION (LUXEMBOURG)



EXAMPLE OF INSTALLATION (SPAIN)



EXAMPLE OF INSTALLATION (ITALY)



EXAMPLE OF INSTALLATION (DENMARK)

