

The unique technology of inspection

Detection of any type of guns, cold arms,
explosives and other tools of terror

DRS ShoeScan

**Digital Radiographic Scanner
FOR INSPECTION OF PASSENGER'S
SHOES**



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In the field of X-ray security systems (introsopes) ADANI offers a completely new technical solution for safety ensuring, which uses the whole range of special purpose digital X-ray scanners:

DRS SecureScan for personnel inspection created for detection of items swallowed or hidden under clothing or in body cavities

DRS Universal CPI for safe scanning of injured and disabled people (as well as those in wheel chairs) aimed at detecting hidden weapons and dangerous items in plaster casts, bandages and prosthetic devices.

DRS Secure Path created for safe secret scanning of people at checkpoints.

DRS BagVision is a family of scanners created for inspection of a wide range of items from carry on baggage, parcels and luggage to large containers.

Safety ensuring at airports is not only connected with control of the carry on luggage, but also with control of passengers' shoes, as there is a possibility of cold steel and plastic explosives to be carried on board. The lack of a special technical means leads to passengers' shoes being inspected at the same time as hand luggage with the help of standard X-ray inspection systems and presupposes taking off the shoes. This procedure is time consuming and inconvenient both for passengers and security personnel.

DRS ShoeScan

- is created for X-ray inspection of passenger's shoes without taking them off
- enables obtaining of any projection X-ray image of a lower part of a leg in a shoe (of a shoe sole in the first place)
- enables detecting of any dangerous items and materials, including those of organic origin (plastic explosive) with color contrasting based on atomic number of a substance.

Standard image processing functions:

- standard B/W image (positive, negative)
- gamma-correction
- color separation of organic/inorganic/metal materials
- color selection of organic/inorganic materials
- contrast adjusting for high and low-absorption objects
- zoom in by 2x, 4x and 8x
- memory of the last image.



ADANI has created a very efficient integrated inspection system that employs both **DRS ShoeScan** and **DRS BagVision 6045**. It can be used at entry gates of airports for ensuring security of passenger traffic and is convenient both for the passengers and for the personnel.

The procedure of shoe inspection with DRS ShoeScan is extremely simple:

- passenger gets on a platform
- X-ray scanning of shoes is conducted during 3-4 s
- projection X-ray image of lower part of passenger's legs appears on operator's monitor
- operator is fulfilling standard functions of image processing.

RADIATION SAFETY

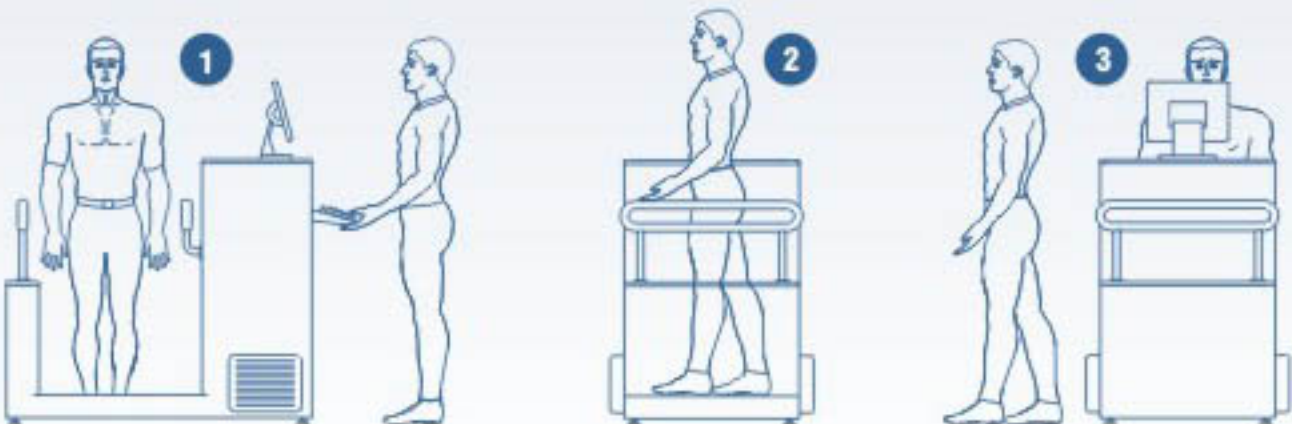
The scanning system **DRS ShoeScan** meets the requirements of American National Standard ANSI/HPS № 43.17-2002 "Radiation Safety For Personnel Security Screening Systems Using X-rays".

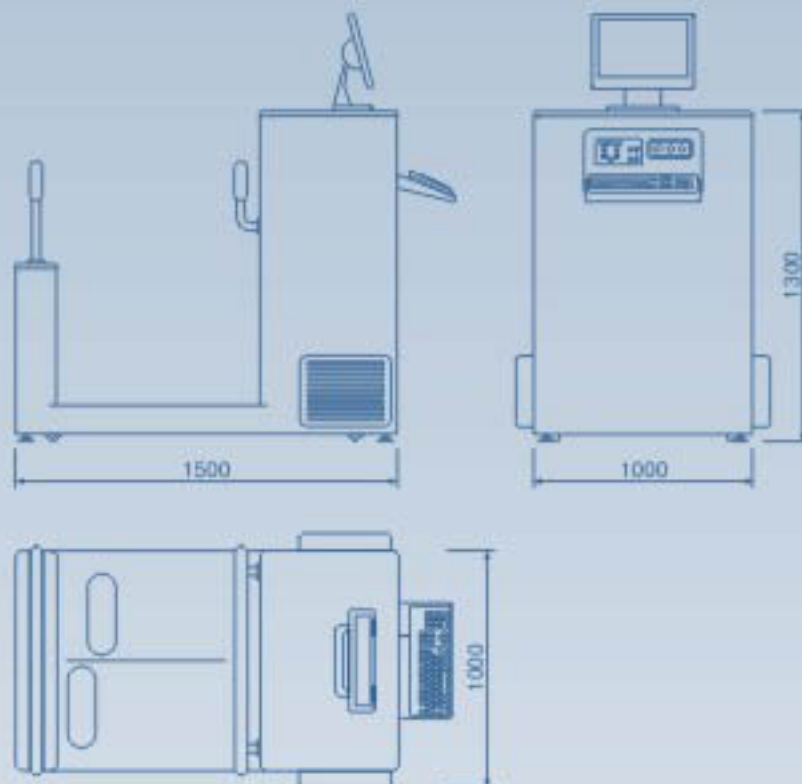
Safety for a person being scanned

The effective dose of radiation at one scanning for the person being examined is about 0.05 μSv . The radiation to which a person is exposed at one scanning is not significant in comparison with the natural radiation, is considered to be harmless and makes it possible to conduct unlimited number of examinations during one year.

Safety for bystanders

The system can be managed both by one or several operators. The radiation dose received by operator at the working place is not exceeding the level of natural radiation.





General Technical Characteristics

Digital Image Size	700 mm x 210 mm
Spatial Resolution	38 AWG (0,1 mm) guaranteed
Penetration (steel)	10 mm guaranteed
Image receiving time	in real time
Scanning time	3 s
Dimensions	1500 mm x 1000 mm x 1300 mm
Weight	250 kg

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