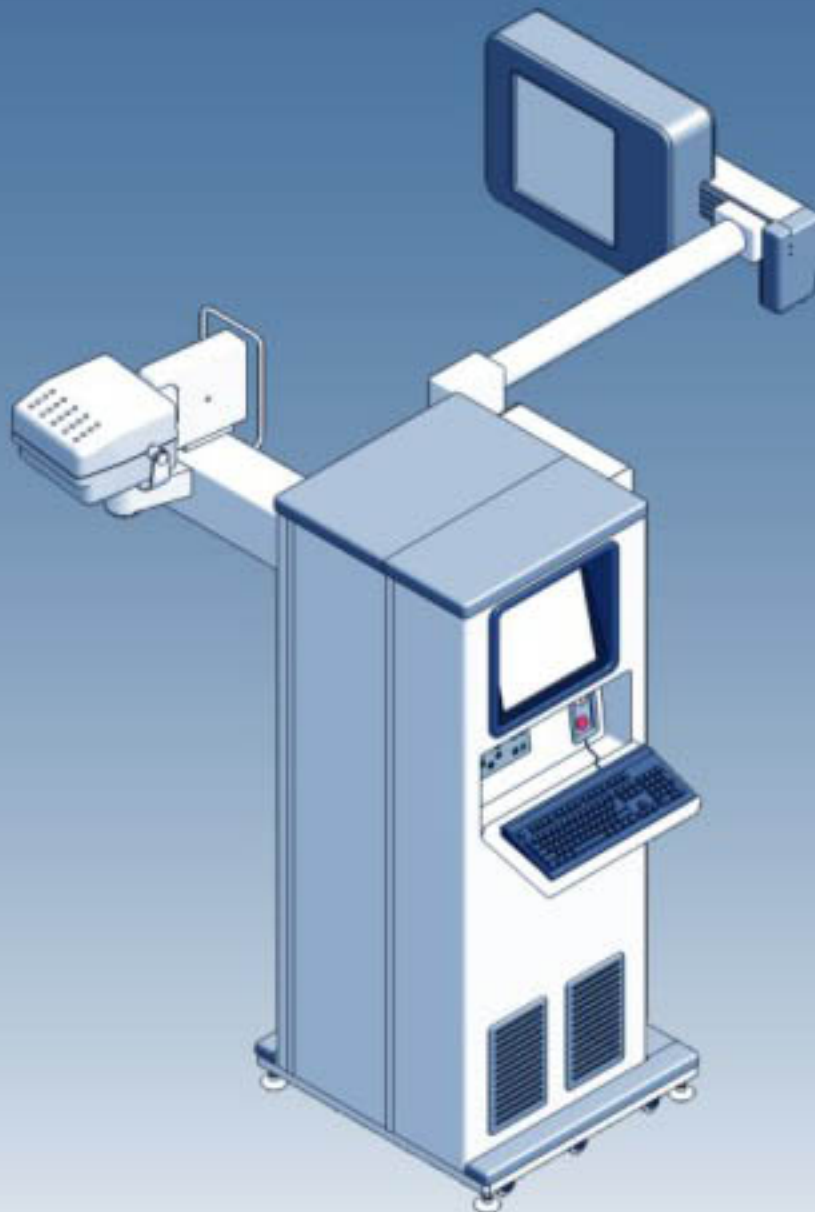


The unique technology of inspection

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

DRS Universal CPI

**Digital Radiographic Scanner
FOR EXAMINATION OF PEOPLE WITH PLASTER CASTS,
BANDAGES AND PROSTHETIC DEVICES**



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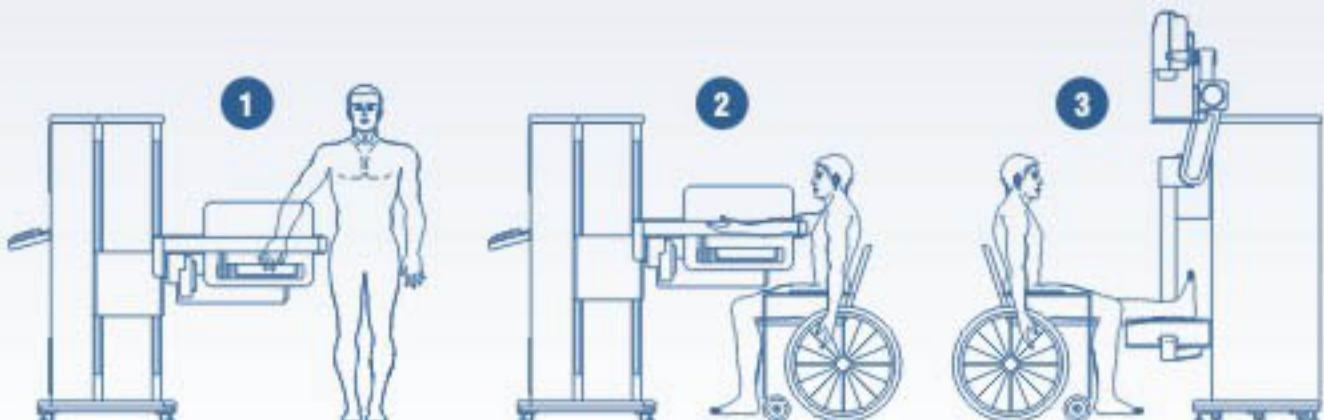
In the field of x-ray security systems (introsopes) ADANI has developed a completely new technical solution for safety ensuring. It uses the whole range of special purpose digital X-ray scanners, including X-ray systems for personal inspection with extremely low radiation dose.

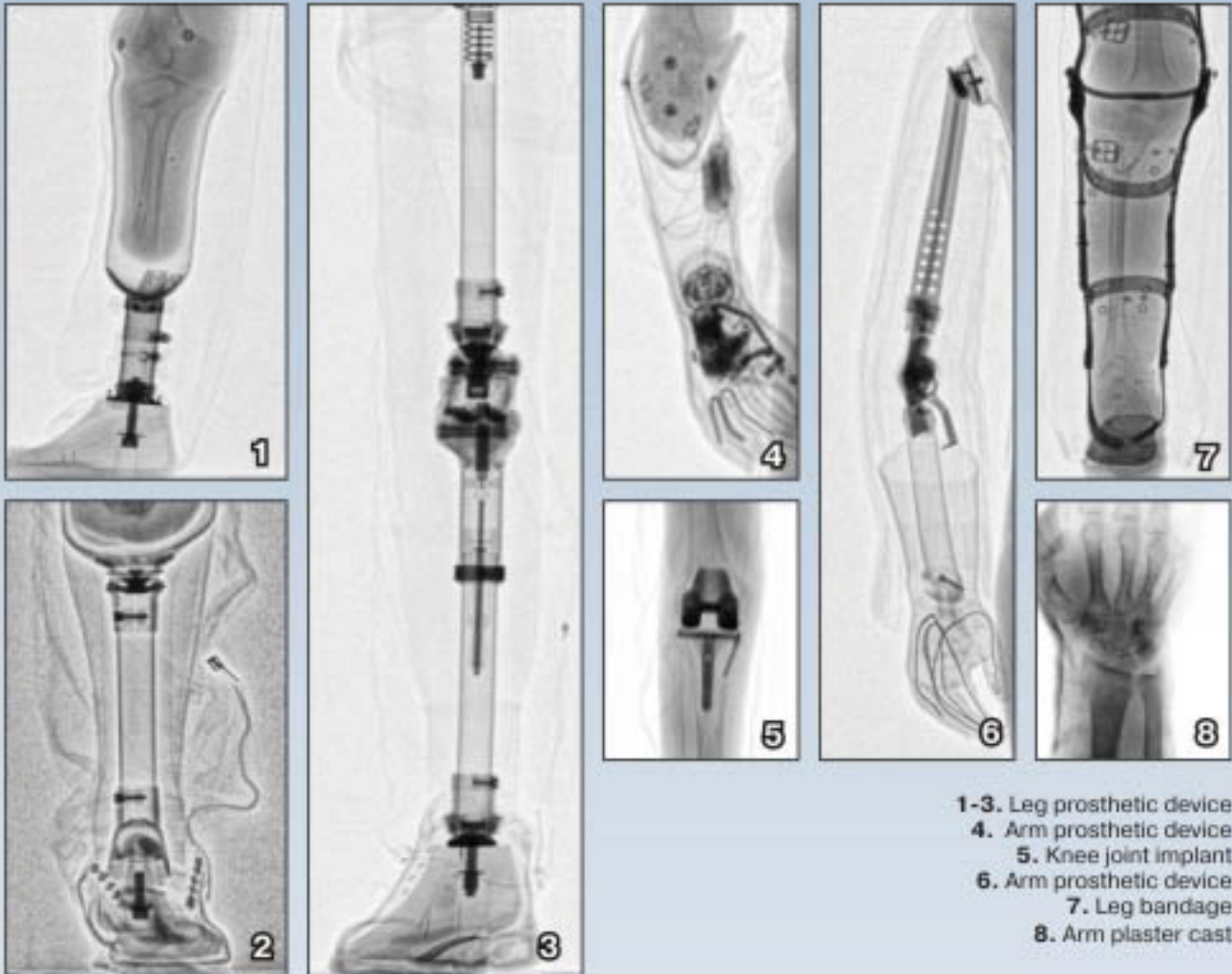
In 2004 a small amount of plastic explosive, hidden in an ordinary women's belt made it possible for the terrorists to blow up two Russian airplanes. The hazard of hand-weapons (guns or knives), explosives or disassembled weapon components being carried on board under prosthetic devices or casts, is real and can be prevented only with the help of special technical devices.

Traditional technical means of inspection used at the airports for flight safety provision are useless in detection of the items:

- Made of non-metal materials
- Hidden in prosthetic devices of upper and lower extremities of disabled people
- Hidden in medical plaster casts
- Hidden in shoes soles

Even gun and cold steel hidden in a prosthetic devices (usually their design includes many metal parts and cavities) can not be certainly detected by hand metal detector and by personal inspection. At personal inspection a removal of prosthetic device is unacceptable both for ethic and technical reasons.





- 1-3. Leg prosthetic device
- 4. Arm prosthetic device
- 5. Knee joint implant
- 6. Arm prosthetic device
- 7. Leg bandage
- 8. Arm plaster cast

DRS Universal CPI is a compact mobile inspection system with manipulator, which enables inspection of people in standing/sitting positions as well as in wheel chairs.

DRS Universal CPI is designed for safe scanning at checkpoints with the purpose of detecting dangerous items hidden under plaster casts and prosthetic devices:

- disassembled hand metal weapons guns, clasp-knives, gun components (trigger mechanism, barrel etc.)
- all types of plastic explosive
- fuses
- toxic substances and liquids
- drugs

DRS Universal CPI utilizes the unique ADANI's technology, which is protected by patents and is based on receiving of digital X-ray projection image of upper and lower extremities by means of scanning by an extremely narrow fan-shaped beam.

DRS Universal CPI is optimal from the point of view of radiation safety both for inspected person and personnel.

DRS Universal CPI meets the requirements of American National Standard ANSI/HPS № 43.17-2002 "Radiation Safety For Personnel Security Screening Systems Using X-rays".

RADIATION SAFETY

Safety for a person being scanned

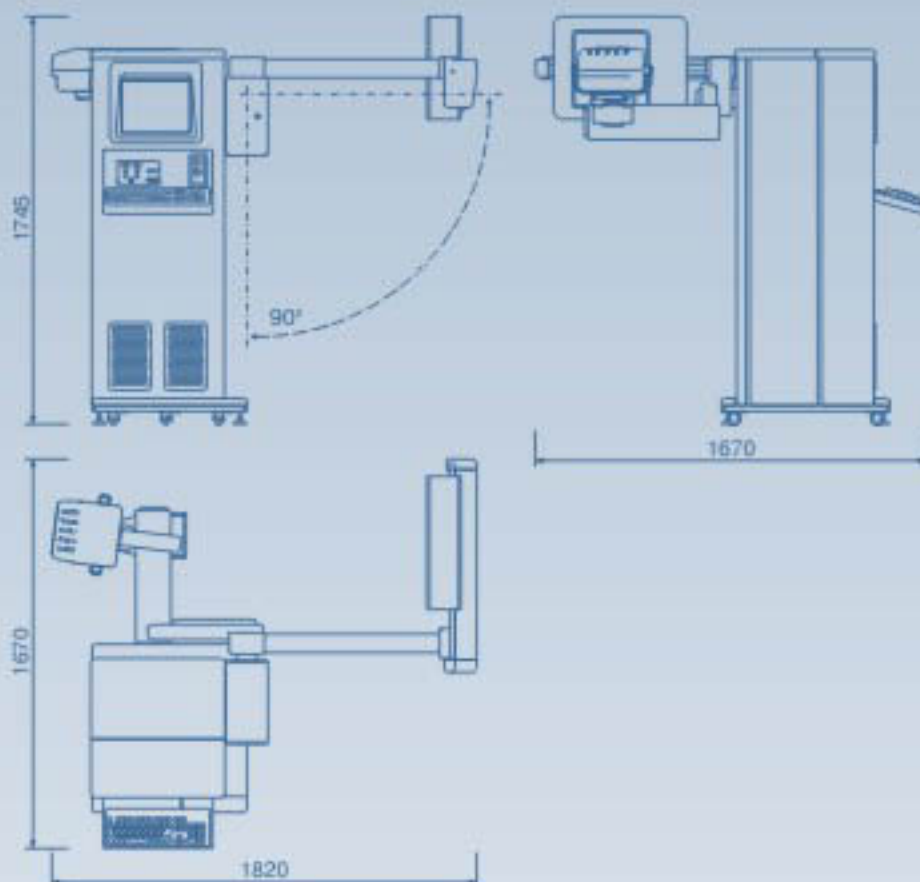
The effective dose of radiation at one scanning for the person being examined is about 0.05 μ Sv. The radiation to which a person is exposed at one scanning is not significant in comparison with the natural radiation, is considered to be harmless and makes it possible to conduct unlimited number of examinations during one year. Being in the sun and taking a flight contributes immensely to a person's general irradiation.

Safety for operator

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

Safety for bystanders

Exposure to radiation outside the working zone at the distance more than 1.5 m is not exceeding the level of natural radiation and is therefore safe for the environment. The scanning system can be placed on the compact area in crowded places (for example, at the airports near the baggage inspection systems).



General Technical Characteristics

Digital X-Ray Receiver

Type	linear scanning matrix
Image size	310 mm x 310 mm
Spatial Resolution	
• Copper wire	38 AWG (0,1 mm) guaranteed
• Image pixel size	0,8 mm
Penetration (steel)	10 mm guaranteed
Radiation safety	
Effective radiation dose	not exceeding 0,05 μ Sv
X-ray leakage (distance 10 cm)	not exceeding 1 μ Sv/hour (0,1 mR/hour)
Physical	
Dimensions	1820 mm x 1670 mm x 1745 mm
Weight	700 kg
Power requirements	220/110 V \pm 10%, 1 kVA

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