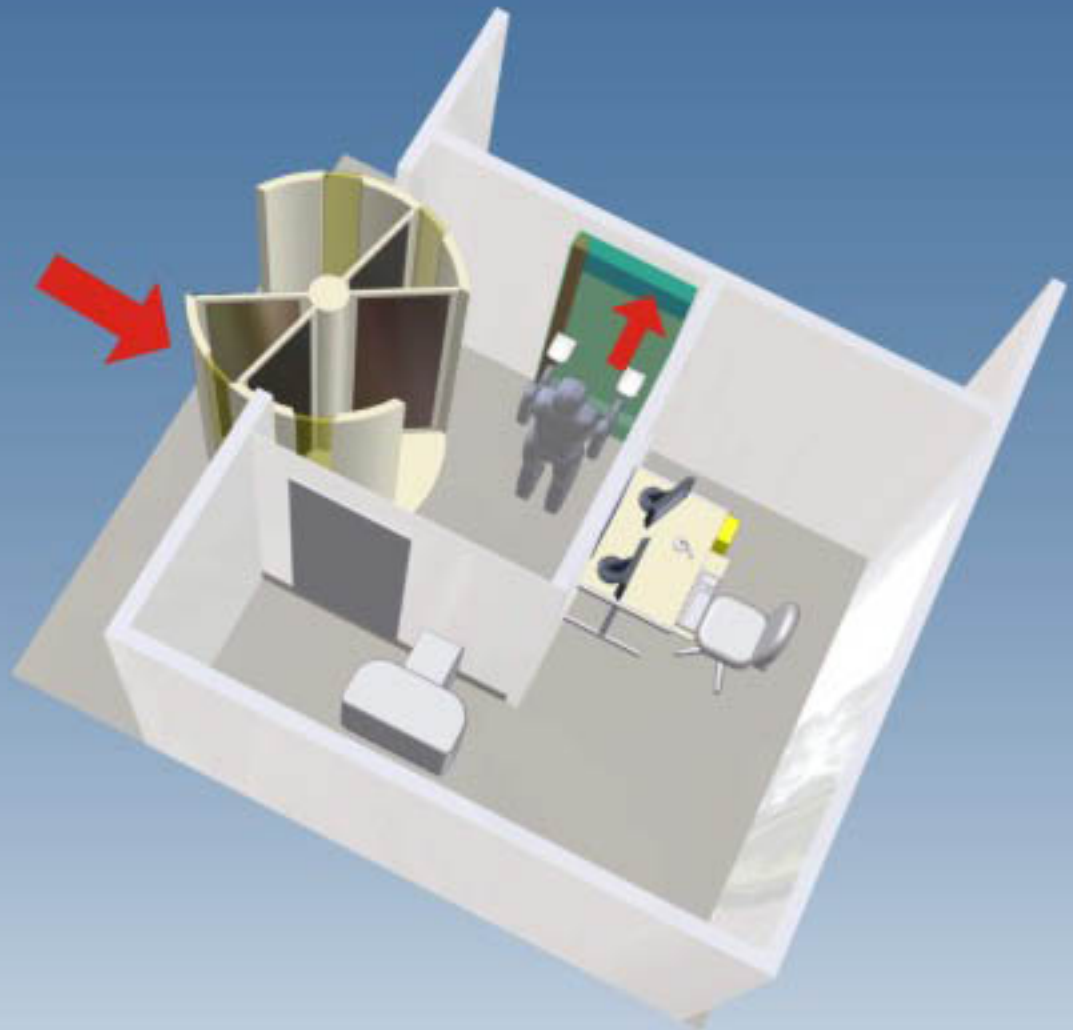


**Unique technology and system  
for safety ensuring**

Detection of any type of fire-arms and cold steel  
Detection of explosives and other items of terror  
Detection of subjects and documents  
not to be carried in/out

# DRS SecretTrap

**SAFE ENTRANCE SYSTEM**  
based on digital X-ray scanner  
for personnel inspection



## Unique technology and system of safety provision

Detection of any type of fire-arms and cold steel  
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# DRS SecretTrap

## SAFE ENTRANCE SYSTEM based on digital X-ray scanner for personnel inspection



### ADANI

- Since 1996 effectively develops innovative scanning technologies in the field of digital visualization of images both for medical and security X-ray equipment
- Is the pioneer in the field of development of original technologies and technical means of personnel inspection for the purpose of safety ensuring - low-dose digital radiographic systems, based on the use of scanning X-ray.

**Safe entrance system is a very important technical means to provide security of buildings and premises:**

- created for prevention of strangers entering the guarded territories of state, commercial or military objects and bringing through of weapons, dangerous items and substances
- designed on the basis of special sliding or revolving door or tourniquet
- is supplied with video surveillance system, electromagnetic detector frame for personal inspection and X-ray luggage inspection system.

X-ray hand luggage inspection (briefcases, bags etc.), carried out with omission of personal inspection, is ineffective in detection of plastic explosives and/or cold nonmetallic weapons hidden under clothes on a person's body.

Personnel inspection cannot be conducted secretly and demands involving of security staff.  
Gas - analyzers already used in a number of systems designed for detection of plastic explosives are extremely expensive and time-consuming.  
Obviously the traditional means and technologies of safe entrance do not meet today's requirements, as there is still a high possibility of terrorist acts being undertaken with the help of plastic explosives and other dangerous items.

**Safe entrance system DRS SecretTrap is a totally new technique of safety ensuring and is created for safe secret scanning of people at check-points for detection of various dangerous items:**

- Made of inorganic materials, hidden under clothes - fire-arms and cold steel, fuses, electronic devices, etc.
- Made of organic materials (non-detectable by metal detectors): plastic explosives, ceramic guns and cold steel; explosive, chemical and biological substances hidden under clothes.

**Safe entrance system DRS SecretTrap utilizing ADANI's unique technology for obtaining person's digital full-size projection X-ray image is based on the innovative method of scanning with flat beam:**

- Scanning of a person with a very narrow x-ray beam, produced by the slot collimator
- Using of a highly sensitive linear matrix of semiconductor scintillation detectors as an X-Ray image converter
- Receiving of person's X-ray image by precise step-by step scanning with the help of linear detector, the motion of which is synchronized with the X-ray beam
- Formation of a two-dimensional matrix of digital image ;
- Using of special algorithms for forming, processing and storing of high-quality digital images.

The X-Ray image receiver designed as scanning vertical linear detector. It is manufactured as a built-in element of a doorway, through which the access of the visitors to guarded territories (or rooms) is carried out.

X-ray generator, designed for creation of a flat fan-shaped X-ray beam in the plane of receiver, is installed behind one of the side walls of the entrance gate.

- Safe objects
- Suspicious objects
- Dangerous objects



### Main fields of application:

- At entry/exit gates of high security state, commercial or military facilities
- At airports, at railway and bus stations for ensuring the security of passenger traffic
- In prisons as an alternative to personnel inspection
- Control of close access to VIPs.

**DRS SecretTrap allows omission** of the control with the help of a framework metal detector, gas analyzers and other devices, as the digital X-ray projection image of a person gives full and unambiguous information not only about any weapons and plastic explosive, but also about other dangerous items hidden under clothes.

### DRS SecretTrap can be used as:

- **Safe entrance system** at entry gates of guarded buildings or territories (inspection of documents), with the visitor being unaware of examination conducted
- **Element of the automated access control system** at entry gates of guarded facilities with the special access mode, while the operator can exercise supervision over the visitors distantly with the help of video surveillance systems.

**The time of examination (scanning of the person) does not exceed 5-7 seconds.**

## RADIATION SAFETY

### Safety for a person being scanned

DRS SecretTrap generates extremely low level of X-ray radiation and enables detection of weapons, explosives and other dangerous items with more than 10 mm in diameter. The radiation to which a person is exposed at one scanning is not significant in comparison with the natural radiation.

### Safety for operator

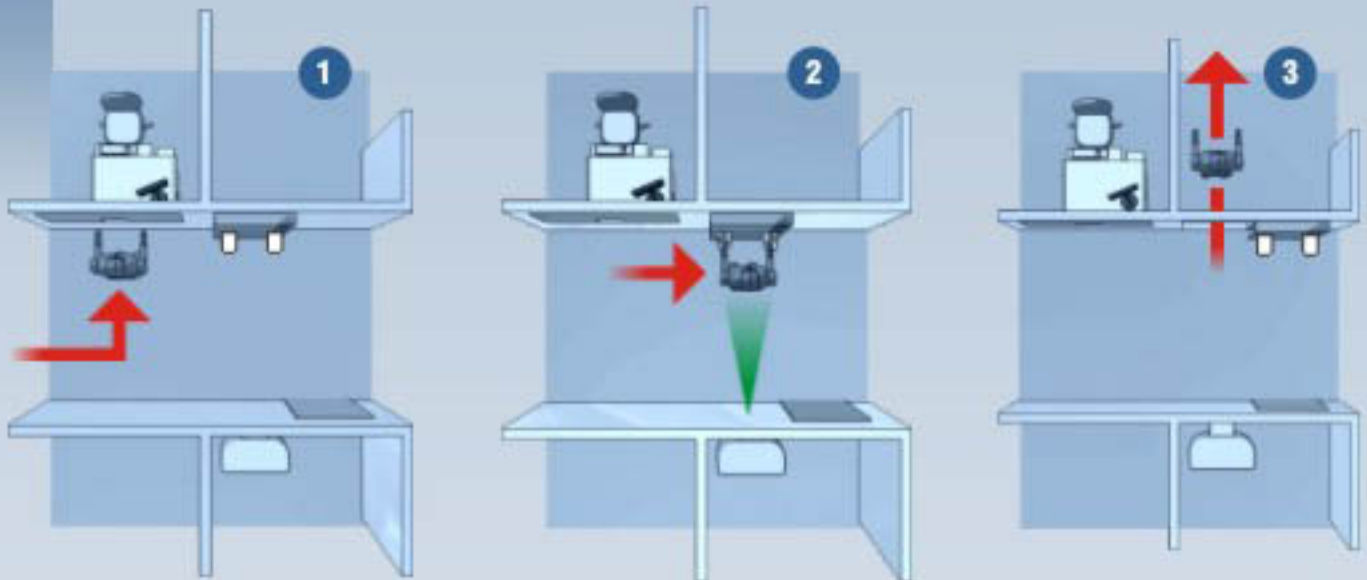
The system can be managed both by one or several operators. The radiation dose received by operator at the working place is not exceeding the level of natural radiation.

### 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 those around the scanner.

## Visitor's inspection technology based on DRS SecretTrap to be used at the entrance of guarded facilities

### Variant 1



### Variant 2



1. Visitor entering the controlled zone and inspection of the documents
2. X-ray scanning (control) of the visitor
3. Visitor being admitted to the guarded building

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