B-SCAN[™] 16HR-FB

Transmission X-Ray People Screening Technology



Feature Highlights

- Detects objects concealed internally in or externally on the body.
- Contraband and threat detection including: weapons, explosives (plastic and powder), detonators, narcotics, electronic devices, diamonds, precious stones/metals and mobile phones.
- High throughput scan time less than 7 seconds.
- Complete head to toe inspection in one short inspection cycle.
- State of the art image processing software and zoom functions facilitates efficient image evaluation
- Low dose rate <2.0µSv/inspection

 $B\text{-}SCAN^{\text{TM}}$ uses transmission x-ray technology employing very low dose rates to screen people. This non-intrusive approach to people screening enables the detection of objects concealed internally in body cavities, on a person beneath clothing, or in artificial limbs.

The B-SCAN $^{\text{TM}}$ system is used to detect contraband and threat objects in applications including prisons, customs and border crossings.

The B-SCAN[™] produces a high resolution head to toe whole body image of the person under review in a single pass.

This high resolution image and image enhancement tools allows the operator to accurately and quickly evaluate the image.

Using specially adapted image processing software $B\text{-}SCAN^{\text{TM}}$ provides security checks of unequalled quality.

 $B\text{-}SCAN^{\text{TM}}$ uses state of the art safety systems to monitor the radiation generation and dose.

With over ten years of field experience $B\text{-}SCAN^{\text{TM}}$ is proven as a well engineered and reliable screening system.

Function	
	Metal, ceramic, plastics, powders, explosives, narcotics
	Objects hidden internally and externally on the body
	Full body scan in one inspection pass
	Screen people for contraband and threats
	standard: 36 AWG (0.13 mm) • typical: 38 AWG (0.10 mm)
	Low dose transmission x-ray
	25% does data.moster x ray
Operational Data	
•	Open tunnel - In line with checkpoint flow
Start up time	
•	Approx. 0.12 m/s
	Person moved through the beam
	< 7 Seconds
Alarm resolution	Single image review
Conveyor load capacity	
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Installation information	
Dimensions	approx. 2585 [L] x 2525 [H] x 1955 [W][mm] (101.8" x 99.4" x 76.9")
Weight	
Humidity	10% - 90% (non condensing)
Storage temperature	
Operating temperature	
Power consumption	
	Metal body (aluminium, steel)
Sound pressure	
Power supply (standard)	230 VAC / 120VAC +10% / -15% 50 Hz / 60 Hz
Image generation	
Generator cooling	Oil cooled, closed circuit
Scan format	Fan beam line scan
Generator	160kV cp, Hermetically sealed oil bath.
	High resolution semiconductor detector lines
Dose per inspection	< 2.0 μSv (<0.20 mRem)*
Duty cycle	100%
Image presentation	
Result presentation	Post scan still image - Full body image
Grey levels stored	65536
Image display	
Image evaluation functions	zoom, various enhancement and filter functions
Monitor	special colour TFT monitor
Options / Features	
	Scan and Image Management system (SIM). Configurations include:
	- Stand alone
	- Networked with central data and image storage
	- Connected to customer database

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Operator's table

Side wall / side wall with window

Can be configured with image store and load capability

Programmable function keys

Remote operator privacy solution

Software for instantaneous offsite independent image assessment

Other $B\text{-}\mathsf{SCAN^{\textsc{tM}}}$ models available with different dose per inspection

All applicable national regulations, requirements and approvals need to be considered and addressed by the customer All models of B-SCAN have been independently tested against the ANSI/HPS N43.17-2009 guideline



^{*} Measured in the centre of the tunnel