Technical Information

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B-SCAN[™] 16HR-LD 100 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.
- Very low dose rate <0.1µSv/ inspection - suitable for general use applications.

B-SCAN[™] 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 16HR-LD model of B-SCANTM uses a dose of less than 0.1μ Sv per inspection which allows it to be used for general use applications under the ANSI and NCRP guidelines.

The B-SCAN[™] system is used to detect contraband and threat objects in applications including prisons, customs, border crossings and aviation security checkpoints.

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-SCAN[™] provides security checks of unequalled quality.

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

With over ten years of field experience B-SCAN™ 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: 29 AWG (0.29 mm) • typical: 30 AWG (0.26 mm)
	Low dose transmission x-ray
Тестноюду	
Operational Data	
· · · · · · · · · · · · · · · · · · ·	Open tunnel - In line with checkpoint flow
Start up time	
•	Approx. 0.16 m/s
	Person moved through the beam
	< 7 Seconds
Conveyor load capacity	Single image review
	>220Kg (463 lb)
Installation information	
	approx. 2585 [L] x 2525 [H] x 1955 [W][mm] (101.8" x 99.4" x 76.9")
Weight	
	10% - 90% (non condensing)
Storage temperature	
Operating temperature	
Power consumption	
Sound pressure	Metal body (aluminium, steel)
•	
Power Supply (Standard)	230 VAC / 120VAC +10% / -15% 50 Hz / 60 Hz
Image generation	
	Oil cooled, closed circuit
	Fan beam line scan
	160kV cp, Hermetically sealed oil bath.
	High resolution semiconductor detector lines
	< 0.1 µSv (<0.01 mRem)*
Duty cycle	
Duty cycle	100 /0
Image presentation	
	Post scan still image - Full body image
Grey levels stored	
Image display	
	zoom, various enhancement and filter functions
	special colour TFT monitor
Monitor	
Options / Features	
options/ readines	Scan and Image Management system (SIM). Configurations include:
	- Stand alone
	- Networked with central data and image storage
	- Connected to customer database
	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
	Remote operator privacy solution

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

* Measured in the centre of the tunnel

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



For product information, sales or service, please go to www.smithsdetection.com/locations

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