**B-SCAN 16HR-FB**
Transmission X-ray people screening system

**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/metal and mobile phones.
- High throughput - scan time less than 7 seconds
- Complete head to toe inspection in one short inspection cycle, even if shoes are worn with very low dose rates.
- State of the art image processing software and zoom functions facilitates efficient image evaluation.
- Low dose rate <2.0µSv/inspection

The **B-SCAN** series provides a security solution for people screening, enabling the detection of objects and threats concealed internally or externally on the body. **B-SCAN** helps to reduce the smuggling of drugs, guns, knives, cell phones and other contraband. **B-SCAN** utilizes fixed components, resulting in a reliable and easy to maintain system, with low lifetime of ownership costs.

There are currently more than 250 **B-SCAN** systems deployed around the world, in a variety of applications, such as prisons, airports and customs checkpoints. Other applications include mines and refineries, helping to reduce incidents of diamond, gem and precious metal thefts amongst employees.

**B-SCAN 16HR-FB** – Provides a full-body X-ray image, in excellent quality at 2.0µSv per inspection (~125 scans/year). This model is ideally suited for higher security inmate screening. Independently verified to meet the ANSI guidelines.
Technical Information  B-SCAN 16HR-FB

Function
- Material Detected Includes: Metal, ceramic, plastics, powders, explosives, narcotics
- Detection Capability: Objects hidden internally and externally on the body
- Type of Scan: Full body scan in one inspection pass
- Primary Function: Screen people for contraband and threats
- Wire Detectability: standard: 36 AWG (0.13 mm) • typical: 38 AWG (0.10 mm)
- Technology: Low dose transmission x-ray

Operational Data
- Physical Format: Open tunnel - In line with checkpoint flow
- Start Up Time: <2 minutes
- Belt Speed: Approx. 0.12 m/s
- Scan Method: Person moved through the beam
- Scan Time: < 7 seconds
- Alarm Resolution: Single image review
- Conveyor Load Capacity: >220 kg (485 lbs.)

Installation Information
- Dimensions: approx. 2585 (L) x 2525 (H) x 1955 (W) [mm] (101.8" x 99.4" x 76.9")
- Weight: 820kg (1808 lbs.)
- Humidity: 10% - 90% (non condensing)
- Storage Temperature: -20°C to 60°C (-4°F to 140°F)
- Operating Temperature: 0°C to 40°C (32°F to 104°F)
- Power Consumption: < 0.9 kVA
- Mechanical Construction: Metal body (aluminum, steel)
- Sound Pressure: < 70 dB (A)
- Power Supply (standard): 230 VAC / 120 VAC +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.
- X-ray Converter: 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: b/w
- 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
- 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

Measured in the center 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