smiths detection
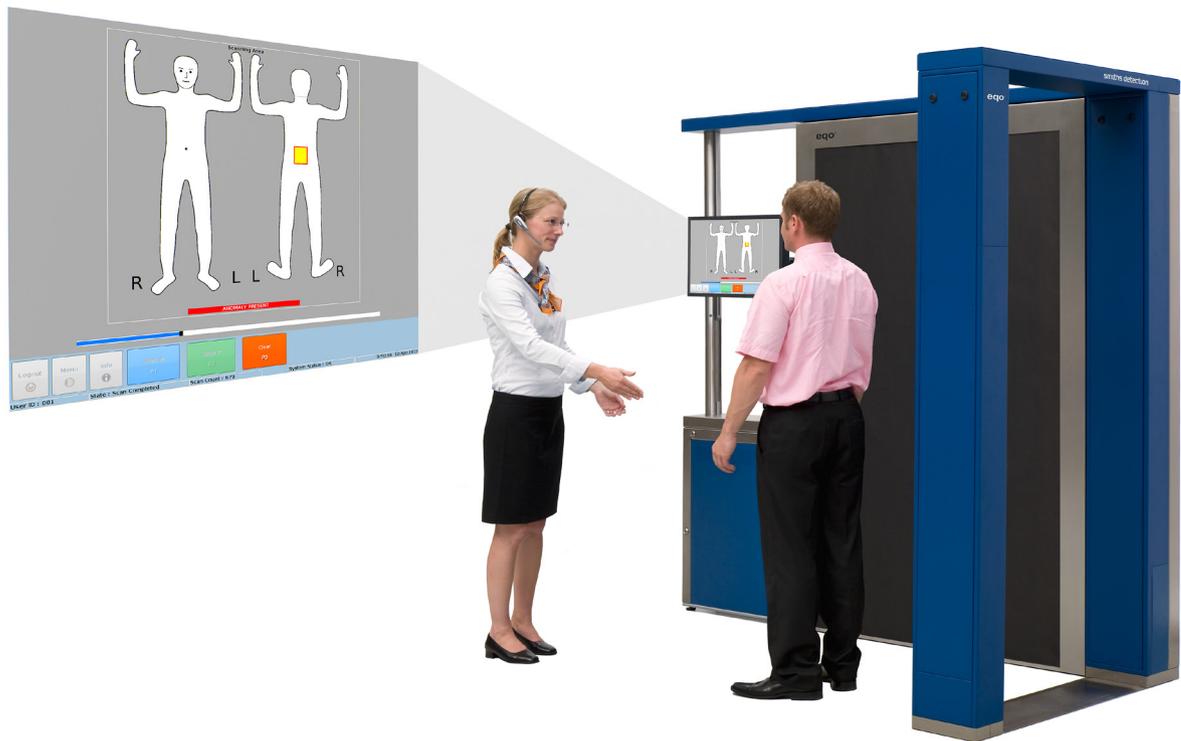bringing technology to life

eqo™

PEOPLE SCREENING TECHNOLOGY

Feature Highlights

- **Automatic detection of concealed threats and contraband**
- **Multi-material detection reveals any concealed objects such as metals, ceramics, plastics, liquids, narcotics, etc.**
- **Minimal footprint allows for easy integration into existing checkpoints**
- **Instant output of detection results**
- **Simple scanning procedure supports rapid processing of people through the checkpoint**

eqo is an innovative solution to people screening. Using its unique flat-panel millimetre-wave technology this system offers state of the art detection capability within a minimal footprint.

The scanning system provides a rapid means of detecting concealed objects using its real-time automated detection interface.

Instant presentation of the scan result ensures rapid processing and high throughput. Separation of the scanning and alarm resolution further increases the throughput potential.

This 'next-generation' approach marks the evolution of millimetre-wave people screening from mechanically scanned to electronically steered technology, which offers a reliable and easily serviceable system.

The combination of the small footprint and options for right/left panel orientation mean that eqo can be easily integrated into existing checkpoint configurations.

eqo is EU-ECAC Standard 2 approved - already meeting the requirements for aviation installations from 2019 and beyond.

EU ECAC Standard 2 Approved

Technical Data **eqo**

Detection System

Description
Using active millimetre-wave technology, the flat panel reflect array directs mm-wave energy to and from a person to detect concealed objects.

Acting as an electronically configurable lens, the panel scans a large cubic volume. This ensures that the person being scanned always remains in focus. The open plan design offers a positive user experience and facilitates ease of communication between the operator and person being screened.

The operator interface provides instant feedback indicating the location of concealed objects. The output format prompts a directed search for fast alarm resolution.

Automated checking of the operational process is integrated into the system thus ensuring that the correct screening procedures are implemented.

System Information

Scan volume
eqo scans a large three dimensional volume that ensures full coverage of the person being screened.

Detection capability
Objects that the system can detect include but are not limited to: ceramics, metals, liquids, explosives, leather, plastics, paper, narcotics, etc.

Response time
Instantaneous presentation of the detection result

Operating modes

- Automated detection for high throughput and high performance detection
- Operator image review for applications where non-standard detection is required

Features

Interface control
Responsive touchscreen interface for easy and intuitive operator control with minimal training requirements.

Access
Different levels of password protected access for operator, supervisors, maintenance technicians, system administrators, etc.

Operational Features
Combined search/scan for optimum throughput, random alarm generation to include additional screening procedures, audio signal alert.
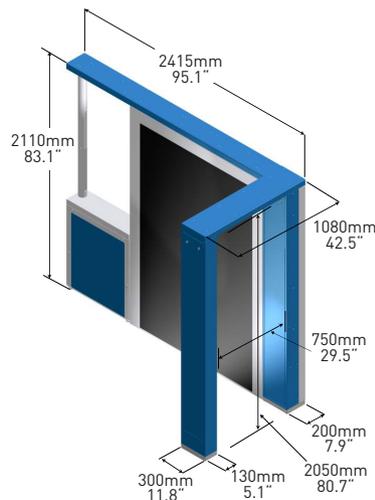
Operational data reporting
Throughput, scan count, user access, and other operational parameters are automatically recorded by the system

Installation Data

Power supply	230 VAC / 120 VAC
Power consumption	1.3 KW (nominal)
Sound pressure	< 55 dBA
Dimensions system	2415 (L) x 1080 (W) x 2110 (H) [mm] • 95.1˝ (L) x 42.5˝ (W) x 83.1˝ (H)
Weight	<470 kg
Storage temperature	-20°C to +60°
Operating temperature	0°C to +40°C
Humidity (non-condensing)	10% to 90%
Altitude	> 3 km
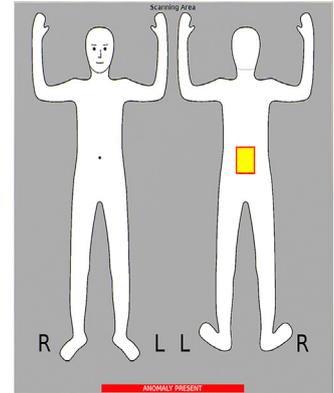
Clearly illustrated location of anomaly objects on the user interface

smiths detection