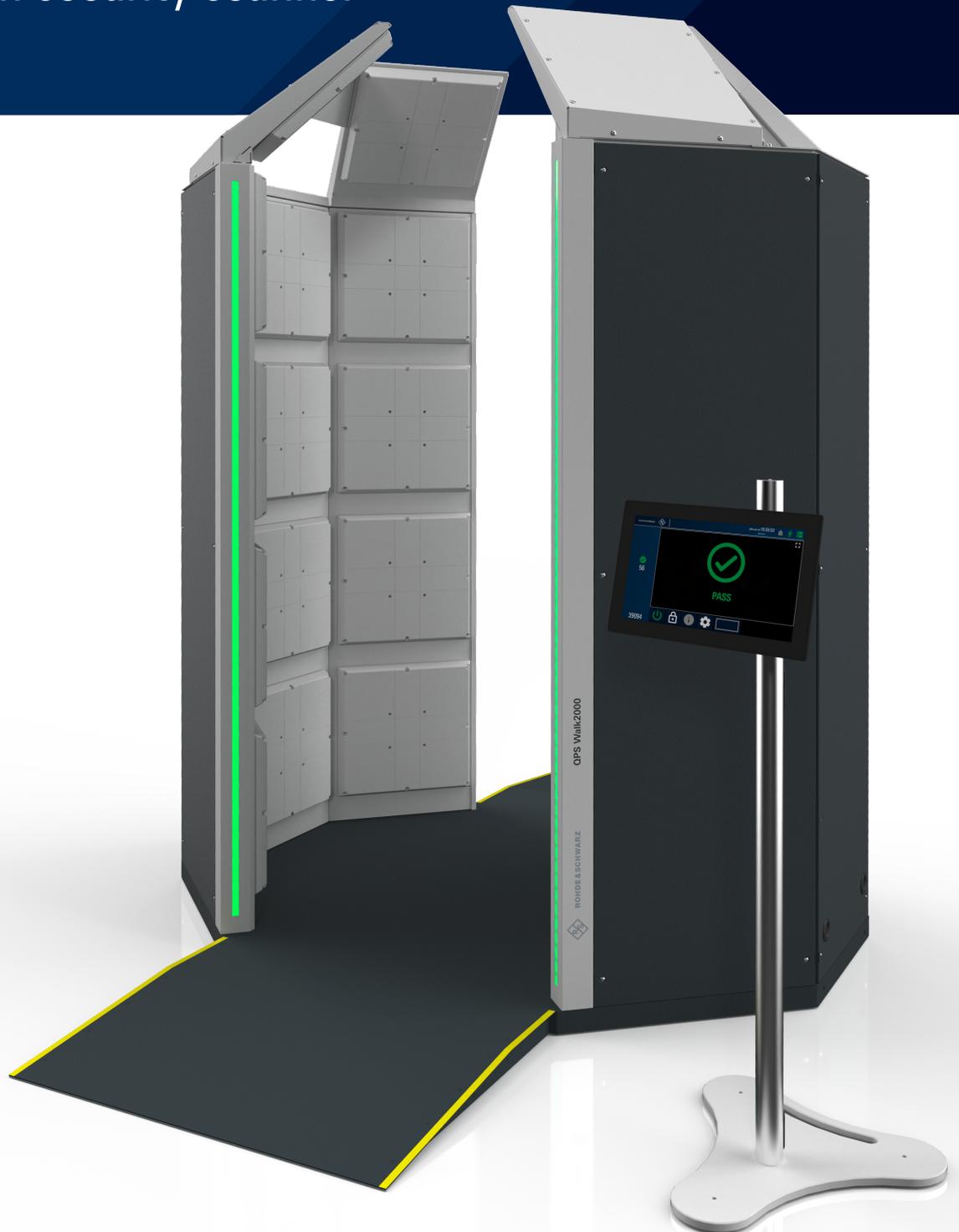# QPS Walk2000 SECURITY SCANNER

Walk-through security scanner

AT A GLANCE

The QPS Walk2000 security scanner provides outstanding, balanced performance when secure, automatic detection of objects is required. The system detects items of any kind of material hidden on a person and features ease of operation and a fast, highly convenient, secure and respectful screening process. Screening takes place in realtime when passing the scanner.

The QPS Walk2000 can be used for any security application that demands extremely high throughput and minimal disruption to screened persons, who do not have to stop and wait to be scanned or remove their outer garments. This ensures a fast screening process while delivering a superior user experience.

Tests for aviation security control with Fraport at Flughafen Frankfurt

TYPICAL APPLICATIONS

Fast and convenient security screening of passengers and staff at airport checkpoints

High-throughput screenings at sporting events or exhibitions

Asset protection and sabotage prevention at corporate premises

Mobile screening solution for temporary outdoor checkpoints

Loss prevention at logistic centers, warehouses and industrial facilities

Secured access to data centers to prevent sabotage and disruption

Protection of critical infrastructure such as power plants or military compounds

Enhanced security screening for VIPs and high-profile conferences

DETECTION CHARACTERISTICS

▶ No need for screened persons to break their stride; system screens them at a natural walking pace
▶ Detection of items of any material (metallic, ceramic, plastic, liquid, organic, granulate, powder, etc.)
▶ Unique system design provides full 360° body coverage
▶ Superior penetration of clothing, eliminating the need to remove outer garments (coats, jackets, leather clothing, work uniforms, etc.) during screening
▶ Automatic object detection and immediate display of results on a neutral avatar
▶ Protection of health due to non-ionizing, extremely low-power radio waves

TECHNOLOGY

The QPS Walk2000 security scanner uses a novel approach based on a multiple array of ultrawideband (UWB) radio sensors to provide high-resolution, three-dimensional information about concealed items on the body or in clothing in real time. The transmitted power at the scanned person's location is almost undetectable, non-ionizing and several orders of magnitude lower than Bluetooth® device emissions.

The machine-trained algorithms of the QPS Walk2000 detection software use this (sensor/item) information to automatically locate suspicious items of all material types. The QPS Walk2000 searches for anomalies and indicates unusual objects rather than particular items, enabling it also to discover new and unknown threats. The QPS Walk2000 displays the precise position of detected anomalies on a gender-neutral graphic representation of a body (avatar).

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SUPPORT FOR VARIOUS APPLICATIONS

The QPS Walk2000 offers benefits for a variety of application scenarios, including:
▶ **Critical infrastructure** such as energy, information technology and telecommunication, administration, finance and insurance
▶ **Government facilities** such as parliaments, ministries, courthouses and embassies
▶ **VIP protection** and high-profile conferences
▶ **Military compounds**, headquarters and checkpoints
▶ **Border crossings**, customs checkpoints and cruise ship terminals
▶ **Data center** entrance security
▶ **Production areas and logistic distribution centers** for protection against loss of intellectual property or valuable goods
▶ **Large-scale events** such as sporting events, music festivals, exhibitions
▶ **Public landmark buildings** such as museums and religious places

BENEFITS

For operating companies
▶ Unique and novel high throughput security check offering patrons a superior experience through touchless screening
▶ Operator-independent automatic detection, leveraging artificial intelligence (AI) based automatic object detection
▶ Continuous self-calibration for uninterrupted operation
▶ Low operational cost thanks to high throughput and simple operation
▶ Low maintenance due to robust design, built-in self-diagnosis capabilities and no moving parts
▶ Escape routes through the scanner lane remain open, even for persons with reduced mobility
▶ Insensitive to temperature fluctuation
▶ Easy to install

For operators
▶ Fully automated screening without manual intervention
▶ Display of exact alarm position simplifies alarm resolution, e.g. by pat-down
▶ Operation with no harm to health
▶ Unobstructed view of screened persons

For screened persons
▶ Most convenient screening while walking at a normal pace through the scanner
▶ Reduces queuing, allows fast screening and displays alarms in real time
▶ No need to remove outer garments
▶ Touchless, pandemic proof and non-intrusive screening
▶ Effective, regardless of gender or religious clothing
▶ Alarms display gender-neutral avatar to ensure privacy
▶ Precise anomaly location reduces need for secondary screening to an absolute minimum
▶ No harm to health due to ultra-low emissions

ALLOWING ACCESS WITH BENIGN ITEMS

The QPS Walk2000 scanners reliably prevent dangerous or prohibited items from being brought into or company assets from being brought out of facilities. Nevertheless, in many cases people are allowed to take personal belongings with them when carried visibly.

While bags are typically examined by x-ray bag scanners or are subject to visual inspection, the QPS Walk2000 supports various policies that facilitate fast and convenient access to personnel carrying common items like keys, wallets or cell phones.

Full divestment of personal items
This is the simplest and most effective policy and is typically applied at conferences, in public buildings, at border crossings and for other applications, where visitors do not frequently pass the checkpoint. All pockets are emptied and personal items are placed in a tray on a conveyor belt for visual or x-ray inspection

Benign items hand-carried
This is a quick and convenient method for checkpoints mainly used by frequent visitors or employees carrying a limited number of personal belongings such as keys, phones and wallets. When walking through the scanner, personal belongings are removed from the pockets and hand-carried for visual inspection by security personnel. Alarms in the hand area are suppressed.

Items carried in a transparent bag
A special function allows individuals to carry their belongings in transparent plastic bags through the scanner. This allows for easier inspection of numerous items without the need to hold them in the hand. This convenient approach is particularly beneficial for checkpoints frequented by individuals carrying many personal items, such as is typical at workplaces or sports events.

MOBILE SHELTER CHECKPOINT SOLUTION FOR TEMPORARY EVENTS

A complete checkpoint featuring the QPS Walk2000 integrated into an easily deployable mobile shelter can be an ideal solution for setting up temporary checkpoints for events, conferences, stadiums, during repair or renovation of fixed checkpoints or anywhere an indoor installation is not possible.
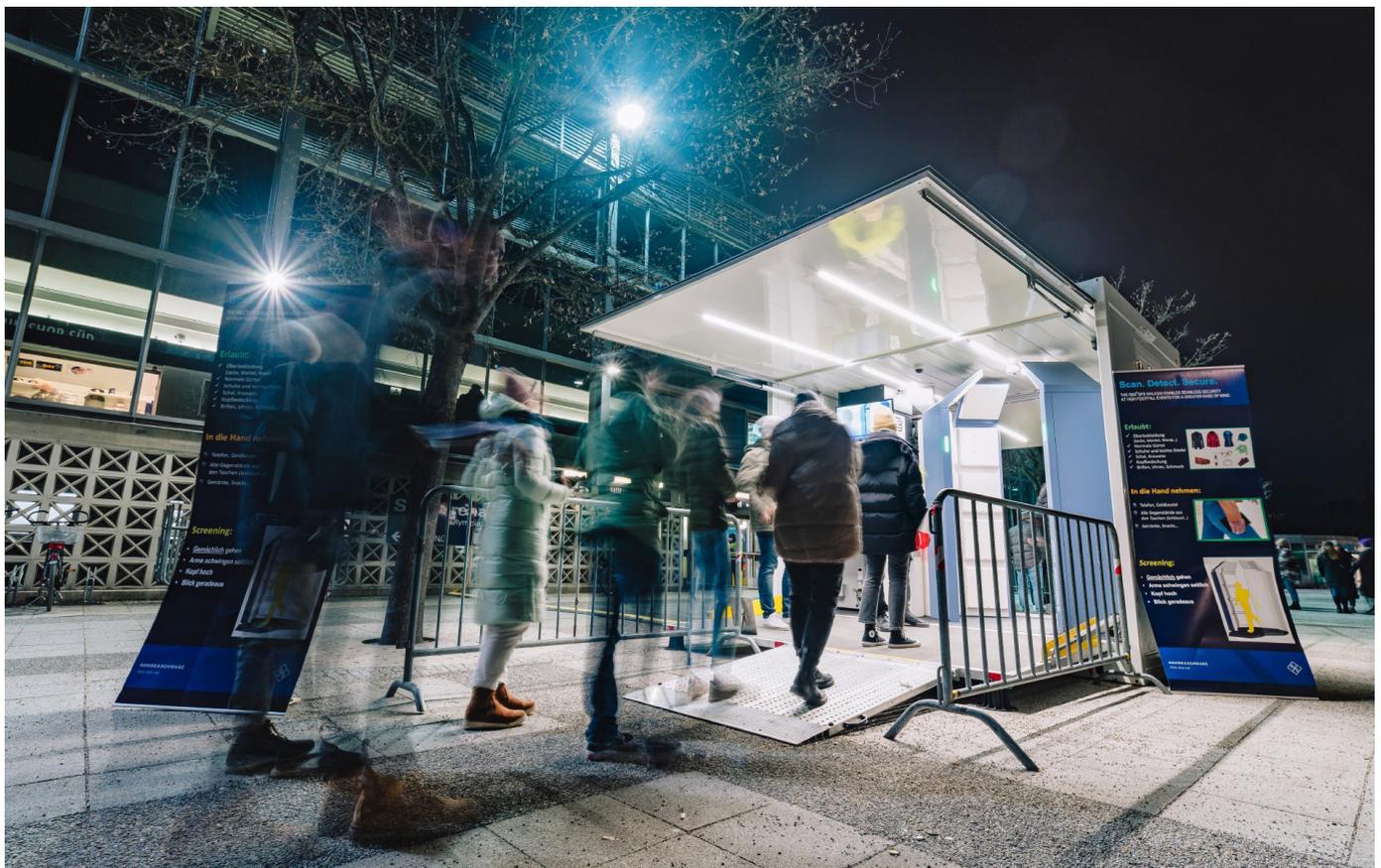
BEHM, in France, and Rohde & Schwarz have joined forces to create a fully integrated checkpoint solution providing all the benefits of advanced, fast and convenient mmWave screening without the need for screened persons to stop and pose or remove outer garments.

The BEHM mobile security shelter comes in a 10 foot container, easy deployable and ready for operation within 15 minutes.

No technical staff is needed for deployment or dismantling, and a standard 230 V AC power connection is all that is needed on site.

Mobile shelter checkpoint for events.

QPS Walk2000 at the Munich Security Conference, a prestigious VIP security checkpointing

SPECIFICATIONS IN BRIEF

► Detected materials: all kinds of metals, gels, liquids, ceramics, plastics, granulates, powders, organics and much more
► Throughput: up to 750 persons/h
► No clothing removal necessary
► AI based automatic target detection (ATD)
► Precise display of anomalies on body-neutral avatar
► Extension with resolution stations (optional)
► Dimensions
  – Gate (H × W × L):
    2475 mm × 1833 mm × 2690 mm
    (97.44 in × 72.16 in × 105.90 in)
  – Entrance width: 816 mm (32.13 in)
► Weight of gate: 315 kg (694 lb)
► Wheelchair accessibility: yes
► Power supply: 110 V to 240 V (1 × gate, 2 × server)

FROM PRESALES TO SERVICE.
AT YOUR DOORSTEP.

The Rohde & Schwarz network in over 70 countries ensures optimum on-site support by highly qualified experts.

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▶ Solution finding/purchase

▶ Technical startup/application development/integration

▶ Training

▶ Maintenance/repairs through our own experts or certified service partners

For high-precision, small item detection, check out the QPS201 quick personnel security scanner:

Rohde & Schwarz

The Rohde & Schwarz technology group is among the trailblazers when it comes to paving the way for a safer and connected world with its leading solutions in test & measurement, technology systems and networks & cybersecurity. Founded more than 90 years ago, the group is a reliable partner for industry and government customers around the globe. The independent company is headquartered in Munich, Germany and has an extensive sales and service network with locations in more than 70 countries.

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