BEHM INTRODUCES SUPERIOR MOBILE SECURITY AT LARGE-SCALE PUBLIC EVENTS

Highest precision and flexibility without compromising security: R&S®QPS Walk2000

AT A GLANCE

- **Customer**: BEHM SAS (www.behm.fr)
- **Task and requirement**: Provision of a temporary but highly efficient security checkpoint for public events in the form of a sheltered mobile solution; best-in-class detection capabilities of liquids, metallic and non-metallic potential threats as well as unwanted and forbidden objects, allowing operators to identify threats more quickly and accurately at entry control checkpoints, with maximum visitor throughput and convenience

- **Project duration**: Multi-year project
- **Project scope**: Program to increase security beyond walk-through metal detectors or manual screening at events of any size, temporary or stationary; project includes design, customization, implementation of a sheltered mobile checkpoint, training, support and services

ROHDE&SCHWARZ

Make ideas real

The customer

BEHM specializes in the design and manufacture of high-tech special vehicles, providing mobile, temporary security checkpoints for events of any size with many thousands of visitors.

Customer situation and requirement

BEHM has already contributed to the security of events, such as Luxembourg's Rockhal, and has applied to be the security screening provider for the Rugby World Cup 2023 and the Paris 2024 Olympic Games. The company offers mobile security checkpoints in a trailer, referred to as MOBIL SECURITY®. This trailer can be dispatched to events that require a security scanning solution, where non-metallic items also need to be detected and manual screening is unacceptable in times of social distancing.

R&S®QPS Walk2000 was chosen as it offers best-in-class detection capabilities using touchless screening with maximum throughput and a unique level of comfort, privacy and health protection. The R&S®QPS Walk2000 body scanner is complemented by an X-ray baggage scanner, CCTV system and monitors, making the mobile security shelter a full-scale security checkpoint, ready for operation within 30 minutes of deployment.

R&S®QPS WALK2000

▶ Provides a new type of convenient and touchless security check that respects the privacy rights of the individual
▶ Simple walk-through screening process
▶ Detects threats and prohibited items of nearly any material
▶ Non-invasive millimeterwave technology, widely used in aviation screening; safe and secure
▶ High throughput and intuitive processes reduce staff and costs

Rohde & Schwarz solution

The versatile, state-of-the-art R&S®QPS Walk2000 security scanner is designed for high throughput requirements and for the detection of all types of potential threats and prohibited items (metallic and organic objects, ceramics, plastics, powders, liquids and gels). It has a unique system design providing full-body coverage from all directions as a person walks through.

The scanner delivers superior penetration through clothing, so that people do not need to remove their outer garments (coats, jackets and headwear) during screening, thereby providing a convenient and quick security check while at the same time ensuring maximum throughput. Communications required between the operators and the persons being screened is minimal – the persons being screened are not required to stop and the operators have an unobstructed view of persons passing through the system.

Optional masking of objects carried openly in hands allows visitors to pass the screening process without personal belongings such as wallets, phones or keys needing to be screened separately.

It offers real-time automatic detection results, low-weight and efficient design, automatic calibration and ease of use (simple touchscreen operation and plug & play design for easy servicing).

The R&S®QPS Walk2000 security scanner uses a novel approach, based on a multiple array of micropower ultra-wideband (UWB) radio sensors to provide non-ionizing, high-resolution, three-dimensional real-time information. The transmitted power is almost undetectable and several orders of magnitude lower than mobile phone emissions. Persons being scanned simply walk through the system at a normal pace and with a normal gait.

The system's AI based detection software uses neuronal networks trained to locate prohibited items of all material types. The R&S®QPS Walk2000 searches for anomalies indicating unusual objects rather than searching for particular items, enabling it to adapt to unknown and new threats. The R&S®QPS Walk2000 presents detected anomalies on a symbolic body illustration, with no indication of gender or body contours.

Results and achievements

R&S®QPS Walk2000 security scanners at the Luxembourg Rockhal festival were an instant hit with the audience and staff, halving the time required to run a scan and doubling the clear scan rate. Security personnel particularly welcomed the high clearance rate and were given the confidence that if the scanner flags up a concern, then there really is something to find. The audience welcomed the innovative scanning method, being able to enter the location comfortably and conveniently.
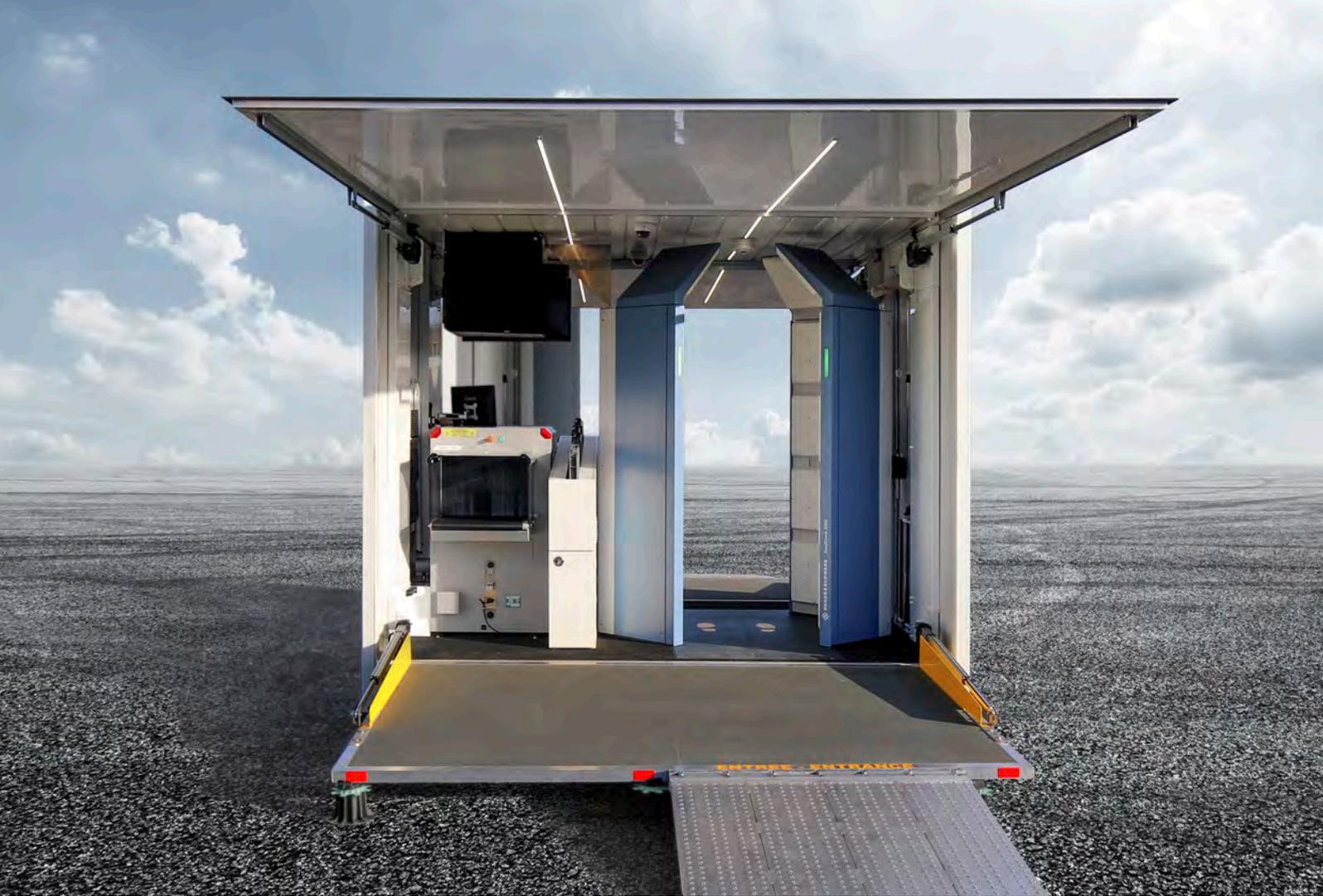
The limited detection capability of metal detectors and the inconvenience and invasion of privacy of manual screening have become a thing of the past. The R&S®QPS Walk2000 can be integrated into any checkpoint area without barriers, as shown with the BEHM mobile security solution. It combines advanced detection technology with an appealing open design that gives security personnel an unobstructed view of the entire checkpoint.

The R&S®QPS Walk2000 is the first 360° full-body walk-through millimeterwave security scanner on the market and the latest member of the R&S®QPS millimeterwave security scanner family. The outstanding quality and reliability of security scanners from Rohde & Schwarz have been proven time and again, e.g. at some of the world's busiest airports since 2015, but also in other demanding applications, like loss prevention, correctional facilities, border and customs and critical infrastructure protection.

R&S®QPS Walk2000 was chosen by BEHM, as it offers best-in-class detection capabilities using touchless screening with maximum throughput and a unique level of comfort, privacy and health protection.

"The R&S®QPS Walk2000 integrated in our new MOBIL SECURITY® systems simplifies the work of the security personnel and potential threats can be discovered without people being obliged to undergo a conventional body search. It is a very exciting alternative to conventional walk-through metal detectors and it offers a new compromise between effective screening and high throughput. Thanks to Rohde & Schwarz, we can now extend our range of MOBIL SECURITY® solutions to give those attending events the freedom they want."

Alain Behm, CEO, BEHM SAS

For further information visit
www.rohde-schwarz.com/security_screening

Rohde & Schwarz

The Rohde & Schwarz technology group is among the trail-blazers 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 85 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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