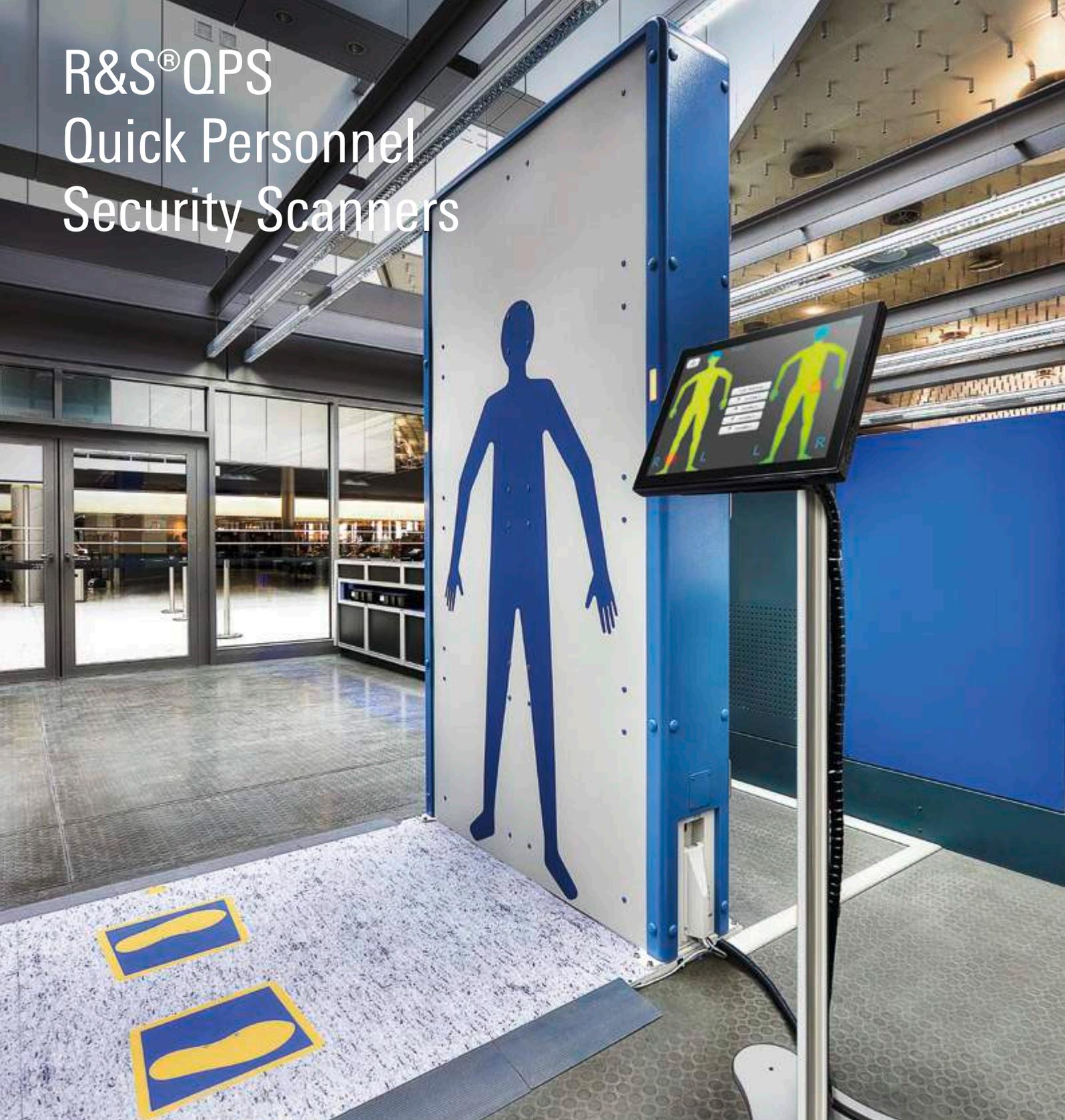


R&S® QPS Quick Personnel Security Scanners



ROHDE & SCHWARZ

R&S®QPS Quick Personnel Security Scanners At a glance

The R&S®QPS is a state-of-the-art millimeterwave security scanner that automatically detects potentially dangerous items carried on the body or in clothing. The scanner can be used for airport security checks, security at public events with a high threat potential and access control at security-related facilities.

The R&S®QPS security scanner delivers high-precision and efficient security control while ensuring an unobtrusive and uncomplicated experience for scanned persons. It consists of a flat panel with thousands of transmitters that emit extremely low-power millimeterwaves in very short succession and just as many receivers that record high-resolution 3D information. Persons being scanned stand squarely in front or between the panels as if facing a mirror, holding their arms slightly away from their bodies.

The detection software uses machine-trained algorithms to search for conspicuous objects of all material types. The scanner searches for anomalies indicating unusual objects rather than for certain items, enabling it to discover unknown and new threats.

The R&S®QPS is designed for implicit privacy. Rather than generating photographic images, it evaluates physical information. Detected locations of interest are marked on a symbolic body graphic.

The R&S®QPS poses no health hazard whatsoever. It operates on frequencies similar to those of a vehicle distance warning system. The transmitted power at the scanned person's location is almost undetectable and several orders of magnitude lower than mobile phone emissions.



R&S®QPS

Quick Personnel Security Scanners

Benefits and key features

Detection characteristics

- ▮ Detection of all types of potentially dangerous objects (metal, ceramic, plastic, liquid)
- ▮ Outstanding full-body coverage, complete head, shoulder and leg illumination of tall and oversized individuals
- ▮ High system resolution, bandwidth and dynamic range for high detection performance and minimum false alarms
- ▮ Certified by the European Civil Aviation Conference (ECAC)

Benefits for operating company

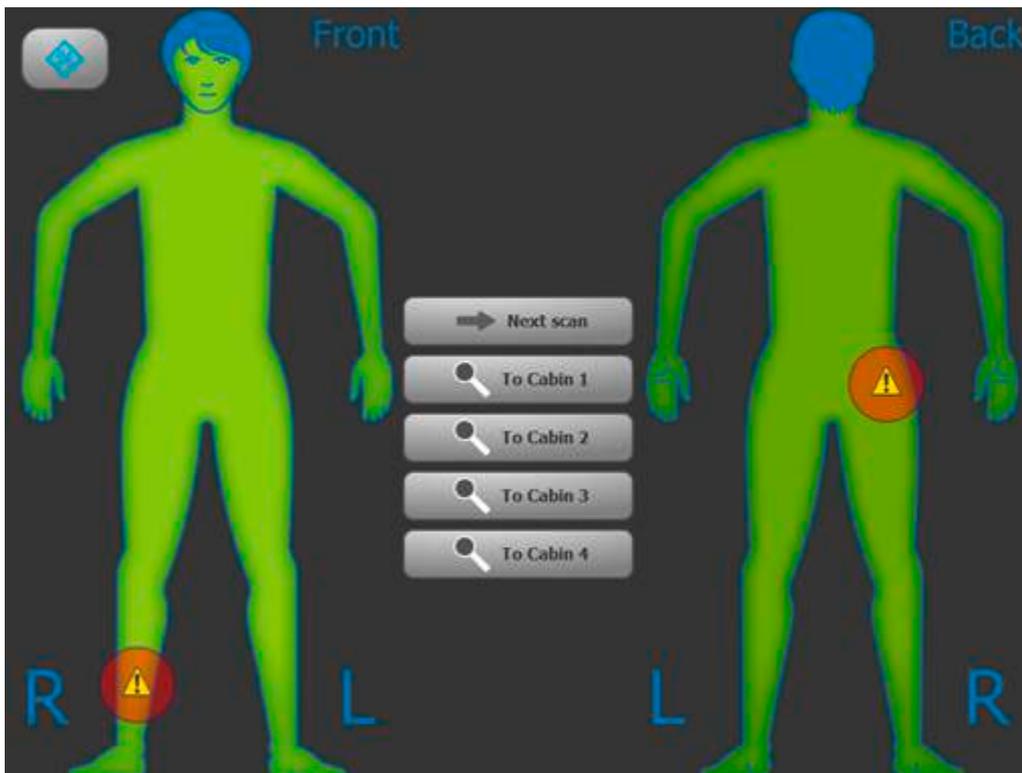
- ▮ Flat instrument with low weight and high positioning flexibility
- ▮ Escape routes through the lanes remain open
- ▮ Low fire load
- ▮ Mobile version (on wheels) also available
- ▮ Reliable, quiet continuous operation
- ▮ Insensitive to temperature fluctuations
- ▮ Low maintenance costs due to stable calibration and no moving parts
- ▮ Integration into local networks possible
- ▮ Software updates to meet future requirements

Benefits for operators

- ▮ Simple touch screen operation
- ▮ Unobstructed view of arriving passengers
- ▮ Direct access to passengers before scanning
- ▮ Wheelchair users can pass through without being scanned

Benefits for scanned persons

- ▮ Open, transparent scanning environment, no booth
- ▮ Easy to hold body posture
- ▮ Extremely short scan time



Scan results are visualized on a neutral body graphic.

R&S®QPS100

The R&S®QPS100 is the perfect solution for use after conventional metal detectors (secondary scan) or for small airports.

Two quick scans (front and back) with a duration of only 16 ms each make the scanning process quick and simple for the passenger.

Thanks to its extremely small footprint, the R&S®QPS100 is flexible to set up and maintains nearly the full lane-width for passengers.

The addition of up to four remote resolution stations in peak mode allows high throughput during peak periods.



R&S® QPS200

The R&S®QPS200 is designed for high throughput requirements, either as a replacement for metal detectors (primary scan) or as a secondary scan in conjunction with a metal detector.

A passenger is scanned in just 32 ms, in one easy-to-hold position between the panels.

The open architecture allows a clear view of arriving passengers, an open escape route and easy passage for wheelchairs.

Peak mode

Both the R&S®QPS100 and the R&S®QPS200 can operate in peak mode. For this purpose, up to four remote resolution stations are connected to the device. The scanner operator simply performs the scan and then sends the passenger to one of the free remote resolution stations. Here, the scan result is displayed and cleared by another operator.

Technical specifications

- Frequency range: 70 GHz to 80 GHz
- Multistatic operation with thousands of transmitters and receivers per panel
- Transmit power: approx. 1 mW
- Data acquisition time: approx. 16 ms/32 ms
- Fully electronic, no moving parts



Service that adds value

- | Worldwide
- | Local and personalized
- | Customized and flexible
- | Uncompromising quality
- | Long-term dependability

About Rohde & Schwarz

The Rohde & Schwarz electronics group offers innovative solutions in the following business fields: test and measurement, broadcast and media, secure communications, cybersecurity, radiomonitoring and radiolocation. Founded more than 80 years ago, the independent company which is headquartered in Munich, Germany, has an extensive sales and service network with locations in more than 70 countries.

Sustainable product design

- | Environmental compatibility and eco-footprint
- | Energy efficiency and low emissions
- | Longevity and optimized total cost of ownership

Certified Quality Management

ISO 9001

Certified Environmental Management

ISO 14001

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R&S®QPS Quick Personnel Security Scanners

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