

ROHDE & SCHWARZ

Make ideas real



R&S®QPS Walk2000 SECURITY SCANNER



Detection characteristics

- ▶ Detection of all types of potentially prohibited items (metallic objects, ceramics, plastics, powders, liquids, gels, etc.)
- ▶ Unique system design providing full body coverage from all directions while a person walks through
- ▶ Superior penetration through clothing, so that people do not need to remove their outer garments (coats, jackets, leather clothing, etc.) during screening
- ▶ Real-time detection results

Benefits for operating company

- ▶ Real-time processing for extremely high throughput
- ▶ Low weight and efficient design, enabling positioning flexibility
- ▶ Automatic calibration, allowing continuous operation
- ▶ Escape routes through the lanes remain open
- ▶ Wheelchair accessibility
- ▶ Insensitivity to temperature fluctuations
- ▶ Low maintenance costs, thanks to built-in self-diagnosis capabilities and no moving parts
- ▶ Plug&play design for easy servicing
- ▶ Software updates to meet future requirements

Benefits for operators

- ▶ Simple touchscreen operation
- ▶ Minimal communications requirements with persons being screened, since they are not required to stop
- ▶ Unobstructed view of arriving persons
- ▶ No obstacles for wheelchair users

Benefits for scanned persons

- ▶ No need to stop for screening
- ▶ No need to wait for detection results, since these are provided in real time
- ▶ No need to position themselves inside the security scanner
- ▶ No need to remove outer garments
- ▶ Protection of privacy (avatar)
- ▶ Protection of health due to non-ionizing, extremely low radiation





Technology

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 body information. The transmitted power at the scanned person's location 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.

The R&S®QPS Walk2000 detection software uses machine-trained algorithms to locate prohibited items of all material types. The R&S®QPS Walk2000 searches for anomalies indicating unusual objects rather than for particular items, enabling it to discover unknown and new threats. The R&S®QPS Walk2000 presents detected anomalies on a symbolic body illustration.

Support for various applications

The R&S®QPS Walk2000 provides advantages for a variety of application scenarios, including:

- ▶ Critical infrastructures as power plants
- ▶ Government facilities as ministries, courts, embassies
- ▶ VIP protection
- ▶ Military compounds, check points
- ▶ Public buildings as museums, universities
- ▶ Large-scale events such as sporting events, music festivals, exhibitions and conferences
- ▶ Customs checkpoints, cruise ship terminals
- ▶ Data centers, logistic centers
- ▶ Protection at corporate premises against loss of intellectual property or valuable goods
- ▶ Entry and access points in general



SPECIFICATIONS IN BRIEF

R&S® QPS Walk2000	
Detected materials	metallic objects, gels, liquids, ceramics, plastics, powders and many more
Throughput	up to 1000 persons/hour
	no removal of clothing necessary
Dimensions of gate (H × W × L)	2490 mm × 1832 mm × 2750 mm (98.03 in × 72.13 in × 108.27 in)
	entrance width: 816 mm (32.13 in)
Wheelchair accessibility	yes
Weight of gate	431 kg (950 lb)
Power supply	110 V to 240 V
Power consumption (average)	gate (incl. touchscreen): 700 W
	server: 1200 W
Operating temperature range	gate: +5°C to +40°C
	server: +10°C to +35°C



AT A GLANCE

The R&S®QPS Walk2000 security scanner provides the ultimate balance between security demands requiring detection of prohibited items, high-traffic applications, operation considerations and screening process convenience.

The R&S®QPS Walk2000 provides a real-time security solution with superior penetration through clothing. It can be used for any security application that demands extremely high throughput and minimal disruption to persons being screened. They do not have to stop and wait to be scanned nor remove their outer garments. This ensures high throughput while enhancing the user experience.



Rohde & Schwarz

The Rohde & Schwarz electronics group offers innovative solutions in the following business fields: test and measurement, broadcast and media, secure communications, cybersecurity, monitoring and network testing. 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.

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