INDEPENDENT X-RAY
QUALITY ASSURANCE

RTI Scatter Probe general specifications

10 cm² and 100 cm² Leakage and Scatter detector in one

The RTI Scatter Probe is a rugged, flat solid-state detector for leakage and scatter detection in X-ray environments. The unique design with two separate detector areas of 10 cm² and 100 cm² makes no trade-off in fulfilling current regulations and standards for X-ray leakage and scatter measurements.

The RTI Scatter Probe connects, via USB cable, to the Ocean Next software for reading and reporting.

Reliable Dosimetry

For barrier, leakage and scatter measurements various industry standards apply. Examples of such standards are 21 CFR 1020.32, 21 CFR 1020.30, IEC 60601-2-3, IEC 60601-2-54, and IEC 60601-1-3.There are several more standards for various modalities.

Common for all these standards is that the measurement has to be made covering an area of 10 cm² or 100 cm² at a certain distance. The detector area of the RTI Scatter Probe ensures full compliance with these standards.

It does not matter if your scatter and leakage application requires measurements at a short distance, long distance, in a fix position or sweeping. With a click you select to use the 10 cm² or the 100 cm² area for your measurement.

General Specifications

Art. No.	9730027-00
Connector type	USB Type C
Cable	5 m, USB A to C Extendable with optional USB active extension cable.
Power	5 V via USB
Active area	10 cm² and 100 cm²
Dimensions	139 x 139 x 17 mm
Weight	370 g (430 g incl. handle)
Rated range of use	10 - 150 keV 80 - 110 kPa +10 - +40 °C 10 - 80 % rel. humidity

Specifications in this document may be changed without notice

Easy Positioning

Regardless if holding the probe by hand, if it stands on a table or mounting it on a tripod, the positioning is quick and simple.

The included mini-tripod makes the handheld use simple. Just flip out the feet on the mini-tripod and you have a vertical positioning. The design with anti-slip surface allows safe positioning facing upwards without sliding.

With the standard camera tripod thread, the RTI Scatter Probe can be mounted to any tripod or jig.

Measurement Specifications

Trig Modes	Auto or Manual
Trig Level	5 µGy/h (0.6 mR/h) or 10 µSv/h
Air Kerma Rate	0 - 100 mGy/h (0 - 10 R/h) ±5 % or ±0.3 µGy/h (0.03 mR/h)
H*(10)	0 - 200 mSv/h ±10 % or ±0.6 µSv/h (N20-150)
Mean Energy (min rate: 10 µGy/h)	10 - 120 keV ±10 % or 3 keV
Half Value Layer (HVL) (min rate: 5 µGy/h)	0.1 - 15 mm Al ±10 % or 0.05 mm Al
Time	0-9999 s
Bandwidth	1 - 100 Hz

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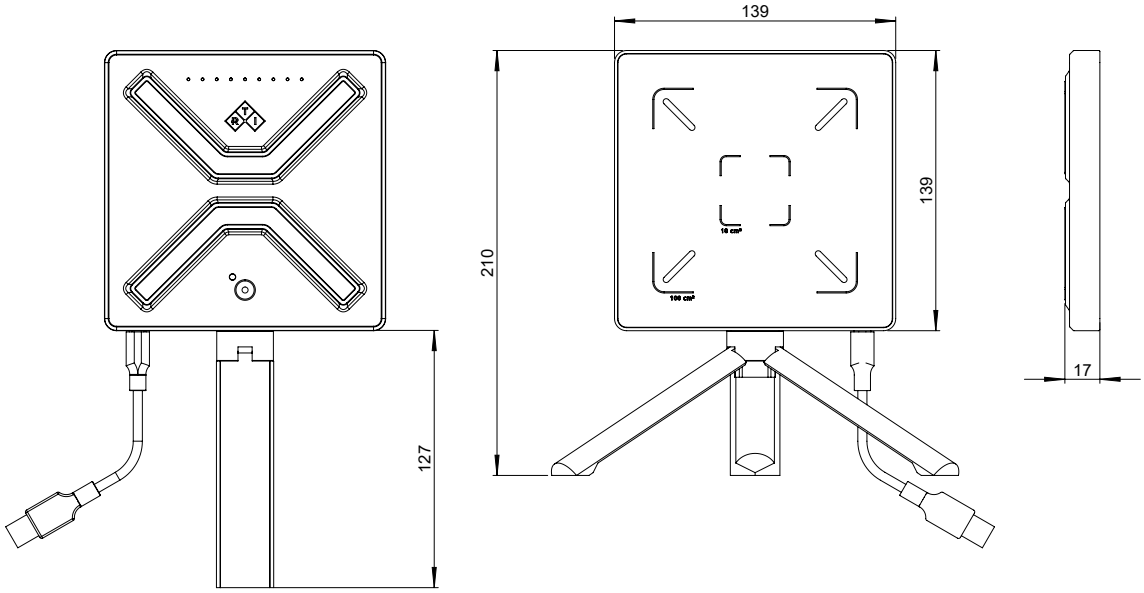

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