



INDEPENDENT X-RAY  
QUALITY ASSURANCE

# RTI Scatter Probe

A scatter and leakage detector in one

The revolution within scatter & leakage detection is here!

A rugged, flat, solid-state detector for scatter and leakage detection in X-ray environments.

Its unique design - two separate detector areas of 10 cm<sup>2</sup> and 100 cm<sup>2</sup> - fulfills current regulations and standards for X-ray leakage and scatter measurements.

Connects to the new Ocean Next™ software via a USB.



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## Dual detection areas

For barrier, scatter, and leakage measurements various industry standards apply.

- 21 CFR 1020.32
- 21 CFR 1020.30
- IEC 60601-2-3
- IEC 60601-2-54
- IEC 60601-1-3

Common for all these standards is that the measurement must be made covering an area of 10 cm<sup>2</sup> or 100 cm<sup>2</sup> at a certain distance. The detector areas of the RTI Scatter Probe ensure full compliance with these standards.

It does not matter if your scatter and leakage application require measurements at a short distance, long distance, in a fixed position, or sweep, with a click you can select the 10 or 100 cm<sup>2</sup> area for your measurement.

## Easy positioning

Stand on a table, use by hand, or mount on the included tripod, the RTI Scatter Probe is quick and easy to position.

The anti-slip surface also allows safe positioning facing upwards without sliding.

With the standard camera tripod thread, the probe can be mounted to any tripod or jig!

## Specifications

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 cm <sup>2</sup> and 100 cm <sup>2</sup>
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

## Measurements

Trig Mode:	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) ±10 % or ±0.3 µGy/h, 0.03 mR/h (ISO N20-N150)
H*(10):	0 - 200 mSv/h ±10 % or ±0.6 µSv/h (ISO N20-N150)
Mean Energy:	10 - 150 keV ±10 % or 5 keV (min rate: 25 µGy/h)
Half Value Layer (HVL):	0.1 - 17 mm Al ±10 % or 0.05 mm Al (min rate: 25 µGy/h)
Time:	0-9999 s
Bandwidth:	1 - 100 Hz

Specifications above valid for the 100 cm<sup>2</sup> detector area.



Specifications in this folder may be changed without notice