



INDEPENDENT X-RAY
QUALITY ASSURANCE

Use with

Ocean Next™



RTI Scatter Probe General specifications

A revolutionary solid-state detector

The RTI Scatter Probe is a rugged, flat, solid-state detector for leakage and scatter detection in X-ray environments. The unique design – two detector areas of 10 cm² and 100 cm² fulfills current regulations and standards for X-ray leakage and scatter measurements.

The RTI Scatter Probe connects via a USB cable to our world-leading 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 1020.30 series, 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, ensuring 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 single click you select the area for your measurement!

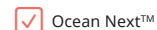
General specifications

Art. No	9731001-00
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 cm ² and 100 cm ²
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



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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 easy.

The included mini tripod makes handheld use simple. For vertical positioning, just flip out the feet on the mini tripod. The design with anti-slip surface allows safe positioning facing upwards without sliding.

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

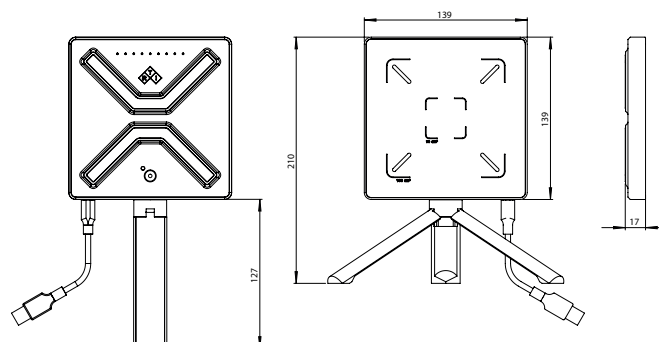


Measurement specifications

Trig Modes	Auto or Manual
Trig Level	5 μ Gy/h (0.6 mR/h) or 10 μ Sv/h
Air Kerma Rate	0 - 100 mGy/h (0 - 10 R/h) $\pm 10\%$ or ± 0.3 μ Gy/h, 0.03 mR/h (ISO N20-N150)
H*(10)	0 - 200 mSv/h $\pm 10\%$ or ± 0.6 μ Sv/h (ISO N20-N150)
Mean Energy (min rate: 25 μ Gy/h)	10 - 150 keV $\pm 10\%$ or 5 keV
Half Value Layer (HVL) (min rate: 25 μ Gy/h)	0.1 - 17 mm Al $\pm 10\%$ or 0.05 mm Al
Time	0-9999 s
Bandwidth	50 Hz

Specifications above are valid for the 100 cm² detector area

Specifications in this document may be changed without notice



RTI Group Headquarters
Flöjelbergsgatan 8C
SE-431 37 Mölndal, SWEDEN

Phone: +46 (0) 31 746 36 00
sales@rtigroup.com
www.rtigroup.com

RTI Group North America
33 Jacksonville Road, Bldg. 1
Towaco, NJ 07082, USA

Phone: +1 800-222-7537
sales.us@rtigroup.com
www.rtigroup.com