

Chamber Adapter



Ion Chamber Friendly

The Chamber Adapter makes it possible to use Ion Chambers with the Piranha. The Chamber Adapter takes the Piranha to a whole new level of versatility. It is primarily designed for Mammo and CT use but can of course be used for other applications.



Contact

Details

Innovative X-ray QA Solutions...of Course!

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Addition

Ion Chamber Capability

With the addition of the new chamber adapter, Piranha owners now have the choice to use ion chambers with their Piranha. This new adapter is an optional accessory for the Piranha, and has been optimized for use with CT and Mammo applications, but can of course be used for other applications. The chamber adapter can be added to any Piranha with an electrometer input and with dose option.

Both Ocean and QA Browser supports measurements with chamber adapter and ion chamber. The chamber adapter supports most type of different ion chambers with tri-axial cable.

Magna 1cc for Mammo

The Magna 1cc ionization chamber is designed especially for mammographic dose and dose rate measurements. However, it has an excellent energy response and can also be used for radiographic applications. The Magna Ion Chamber is the ideal choice for two reasons;

Evaluations of Magna chambers show an average response within $\pm 1\%$ over an extended mammography range of 20-40 kVp (HVL of 0.15 mm to 0.73 mm Al).

All mammographic mean glandular dose tables are based on measurements in air. MAGNA's air equivalent construction makes it ideally suited for measurements in air for mean glandular dose.

DCT10 for CTDI

The DCT10 RS is a cylindrical pencil shaped ionization chamber for CTDI measurements. The CT probe is intended for measuring and monitoring the exposure output level of CT scanners in a phantom or in air. CT Dose Index, CTDI, can be measured in accordance with IEC 61223-2-6.



Specifications:

Specifications for the Chamber Adapter

Current range	10 pA to 0.1 μ A $\pm 2\%$ or $\pm 1\%$ pA
Bias Voltage Output	+300 V, DC
Connector to ion chamber	Lemo triaxial connector
Power source	Rechargeable battery, 10 hours
Dimensions	120 x 60 x 35 mm

DCT10 (dose rate)	0.8 mGycm/s – 8 Gycm/s $\pm 6\%$ or 0.08 mGycm/s
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Magna 1cc (dose rate)	0.25 mGy/s – 2.5 Gy/s $\pm 6\%$ or 0.025 mGy/s
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