

QUART didoCT

Advanced DWP and CTDI Measurements



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Advanced Technology and Improved Methodology



The QUART didoCT meter is designed for easy and precise dose-width product measurements.

The meter does not require any pre-setting procedure for direct reading of DWP, rate and time parameters. Its detector part is based on solid-state technology. Unlike conventional ion chambers, the QUART didoCT is not affected by variations in environmental temperature or air pressure and does not require correction.

The didoCT is equipped with a backlit display to assure swift readings even in darkened environments. To provide the ability to track generator characteristics, the dose or DWP rate is refreshed continuously on the meter display while the measurement is running.

The meter is powered by a rechargeable battery. One charge is sufficient to last approximately 80 hours of continuous use. Recharging the meter until full takes only between 3–4 hours. A warning will appear on the display when the battery charge is running low.

Special Feature CT-kV Measurement

As an optional feature, the QUART didoCT can be supplied with free-in-air kV measurement capability.

The meter's kVp feature is designed to non-invasively measure the generator output. It is calibrated at suitable standard radiation qualities in accordance with the majority of computed tomographs used in radiology or radiation therapy.

TECHNICAL SPECIFICATIONS

DWP	Range: Uncertainty:	1.5 mGy*cm - 999 mGy*cm +/- 5 %
DWP Rate	Range: Modes (3): Uncertainty:	2.0 mGy/s*cm – 999 mGy/s*cm • One-second-mean rate refreshed four times per second (real-time) • Total average • Maximum +/- 5 %
CT-kV	Range: Uncertainty:	80 - 150 kV (eff.) free in air +/- 2% for PTB RQT radiation qualities • RQT8: 100kV, 3.4 mm Al + 0.2 mm Cu • RQT9: 120kV, 3.7 mm Al + 0.25 mm Cu • RQT10: 150kV, 4.4 mm Al + 0.3 mm Cu
Exposure Time	Range: Mode: Uncertainty:	0.5 ms – 300 s Duration of full exposure ± 0.5 ms
Weight	Base unit: Detector unit:	180 g 120 g including cable
Size	Base unit: Detector unit:	17 x 7 x 4.5 cm (LxWxH) 16 x 1.3 cm (LxDiam.) Active length up to 100 mm (marked)
Operating Temp.	15 - 35°C	

