

QUART didoCT

Advanced DLP / DWP Measurements



QUART didoCT

Advanced Technology and Improved Methodology



The QUART didoCT meter is designed for easy and precise dose-length product measurements. It does not require any pre-setting procedure for direct reading of DLP, 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 DLP 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: Direct CT-HVL Measurement

As an *optional feature*, the QUART didoCT can be supplied with direct HVL measurement capability.

The meter's HVL feature is designed to easily measure the aluminium equivalent for a wide range of CT imaging equipment. It is calibrated at suitable standard radiation qualities in accordance with the majority of computed tomographs used in radiology or radiation therapy.

TECHNICAL SPECIFICATIONS

DLP/DWP	Range: Uncertainty:	1.5 mGy*cm - 999 mGy*cm +/- 5 %
DLP/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) • Average total • Maximum +/- 5 %
CT-HVL	Range: Exposure Conditions: Uncertainty:	3.0 - 9.0 mm Al (HVL output) Internal Filtration of 2.8 - 29 mm Al equivalent and corresponding range of 70 - 150 kVp +/- 8%
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 1.8 m 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)



CONFIGURATIONS

QUART didoCT+	CT-HVL, DLP/DWP, Rate, Exposure time
QUART didoCT	DLP/DWP, Rate, Exposure time