QUART
Quality Assurance in Radiological Technologies

QUART didoEASY M / R / MR

Precision Meters for Dose, Dose Rate and Time







QUART didoEASY Series

Easy-to-Use Precision Dosemeters



The QUART didoEASY meters can be used for simple but very precise dose measurements. Since the meters do NOT require any pre-setting procedure, measurement results are acquired very quickly:

1. Position the detector and switch on the didoEASY meter...
2. Set the x-ray equipment to the desired parameters...
3. Expose...
   - and simply read the TRUE DOSE value from the meter‘s display.

The QUART didoEASY meters automatically compensate ALL beam qualities! NO further corrections or compensations are required.

Like the QUART dido2000 series meters, the detector of the QUART didoEASY meter series also measures the integrated dose-width product (DWP) at dental panoramic equipment. * A feature that provides real added value for QUART users.

* REFERENCE: S A Mitchell and C J Martin, Comparison of ionisation chamber and semiconductor detector devices for measurement of the dose-width product for panoramic dental units, J. Radiol. Prot. 33 321 (2013).

Technical Specifications

Temp. Range	15 - 35°C
Storage Range	-10 - 65°C
Humidity	20-75% / 20g/m^3
Weight	Base Unit: 280g including Battery Detector: negligible
Size	Base Unit 170x70x45mm (LxWxH) Detector 5.0 x 1.6 x 0.4 cm (L x W x H)
Unit Displayed	Gy or R (to be specified on order) Date and Time on Display



QUART didoEASY R

Dose	0.2 µGy - 999 Gy	
	Uncertainty:	+/- 5 %
	Dynamic Range:	45 - 160 kV
	Auto-Compensation for all R+F radiation qualities	
	Attenuated and open radiation beam measurements	
DWP*	0.2 µGy*cm - 999 Gy*cm	
	Uncertainty:	+/- 5 %
	Dynamic Range:	50 - 150 kV
	Auto-Compensation for all radiation qualities	
	Attenuated and open radiation beam measurtements	
Exposure Time	0.5 ms - 300 s	
	Mode:	Time for full exposure
	Uncertainty:	± 0.5 ms or 0.1 %
Dose Rate	0.25 µGy/s - 999 mGy/s	
	Mode:	Average rate per exposure
	Uncertainty:	± 5 %

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All technical data subject to change without prior notice.

Precision Meter for Dose and Time Measurement

QUART didoEASY Series

Easy-to-Use Precision Dosemeters



The QUART didoEASY M is designed for precision measurement in mammography x-ray QA/QC. Dose and exposure time are measured for all mammography applications at equipment using digital or screen-film image acquisition technology.

The technical approach of the didoEASY M enables automatic compensation for ALL mammography radiation qualities currently in use: Mo/Mo, Mo/Rh, Mo/Al, Rh/Rh, Rh/Al, W/Rh, W/Al, W/Ag - with or without compression paddle in the beam.

QUART didoEASY M



Dose	0.2 µGy - 999 Gy	
	Uncertainty:	+/- 5%
	Dynamic Range:	25 - 40 kV
	Auto-Compensation for all Mammography radiation qualities Attenuated and open radiation beam measurements	
	Radiation Qualities:	Mo/Mo, Mo/Rh, Mo/Al, Rh/Rh, Rh/Al, W/Rh, W/Al, W/Ag
Exposure Time	0.5 ms - 300 s	
	Mode:	Time for full exposure
	Uncertainty:	± 0.5 ms or 0.1 %
Dose Rate	0.25 µGy/s - 999 mGy/s	
	Mode:	Average rate per exposure
	Uncertainty:	± 5 %

QUART didoEASY MR



Dose	0.2 µGy - 999 Gy	
	Uncertainty:	+/- 5%
	Dynamic Range:	25 - 160 kV
	Auto-Compensation for all Dental, R+F (see QUART didoEASY R) and Mammography radiation qualities (see QUART didoEASY M) Attenuated and open radiation beam measurements	
Exposure Time	0.5 ms - 300 s	
	Mode:	Time for full exposure
	Uncertainty:	± 0.5 ms or 0.1 %
Dose Rate	0.25 µGy/s - 999 mGy/s	
	Mode:	Average rate per exposure
	Uncertainty:	± 5 %

Included in the Delivery

- QUART didoEASY Dosemeter
- Calibration Certificate
- Manual
- Transport Case

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