QUART
Quality Assurance in Radiological Technologies

QUART didoEASY M / R / MR

Precision Meters for Dose, Dose Rate and Time

Precision Meter for Dose and Time Measurement

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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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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We help to help others
QUART is a proud Supporter of ***Medecins sans Frontieres***

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