

pehamed

Alpha plus A



Eichfähiges Diagnostikdosimeter und
Spannungsmessgerät für den gesamten
Radiographiebereich
Calibrateable Diagnostic Dosimeter and kV - Meter



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TECHNICAL DETAILS

Measuring method	Ionisation stream with semiconductor
Application range	Total filtering according to DIN EN 61267 and IEC 1267 22kV (MV25)-35kV (MV35) without additional filters 22kV (MH25)-35kV (MH35) with 2,5mm Al 40kV (RQA 3)-160kV (RQA 10) behind phantom (25mm Al) 40kV (RQR 3)-160kV (RQR 10) attenuated radiation beam (2,5mm Al)
Dose rate	Effective range: 0,001 µGy/s – 1 Gy/s (resolution 0,1 ms) Dose rate: automatically averaged over 1 second Display range: 0,001 µGy/s – 9999 Gy/s
Dose	Effective range: 0,005 µGy – 999 Gy (resolution 0,001nGy) Display range: 0,001 µGy – 9999 Gy Alignment: vertically to detector surface Mode: automatic responsivity adjustment over entire effective range
Influence of scattered radiation	Due to the detector's brass shielding scattered radiation has <i>only fractional, if any, influence</i> on results (Errors <2% with dose measurement!).
Tube voltage	Effective range: 22-35 kV (mammography) and 40-160 kV (radiography) Accessories: 0,5 mm Al additional filtering for voltage measurements on dental x-ray equipment with tube (@ 2mm Al cumulative filtering)
Exposure time	Effective range: 0,6 ms – 50s (resolution 0,1ms) Display range: 0,1ms – 50s Error rate: <10% (from 1,0ms) <2% (from 5,0ms) Mode: Stop watch (default configuration 20s)
Parameters	Installed Firmware Version (0.4) displayed with every switch-on and Reset ⇨ [dFO.4] Temperature range (default): +15°C – +40°C Relative humidness (default): 20% - 75%, 20g/m ³

