

Quality Assurance in Medical Imaging

KermaX[®] plus IDP – DAP Meter

Patient Dose QA



Key Benefits

- **Applications Flexibility**
For both adults and pediatric application
- **Cost effective installation**
Cabling system based on telecommunication standard cables
- **Efficient Measurement**
Measures DAP ($\mu\text{Gy m}^2$) and DAP rate ($\mu\text{Gy m}^2/\text{s}$) simultaneously
- **Compliant with international standard**
IEC 60580 (2000)
'Dose area product meters'
IEC 60601-1 (2005)
'Medical Equipment – General requirements for basic safety and essential performance'

Technical Specifications

Reproducibility:	< 1 % (at a constant pressure and temperature)
Energy Dependence:	< ± 8 % related to 100 kV according to IEC 60580 from 40 to 150 kV
Dose Area Product Rate:	Minimum: 0.01 $\mu\text{Gym}^2/\text{s}$ / Maximum: 3,000.00 $\mu\text{Gym}^2/\text{s}$
Maximal Measurable Dose Area Product:	99999999.99 μGym^2
Minimal Dose Resolution:	0.01 μGym^2 (HS High Sensitive, as requested in IEC 60580 table 6)
Linearity:	< ± 2 %
Active Area:	140 mm ²
Optical Transparency:	≥ 75%
Voltage Range:	15 - 22 V DC (only for IDP chamber 120-104HS)
Cabling:	Cost effective low voltage cable based on telecommunication standards or network patch cable
Mechanical Adaption:	Can be mounted directly on the collimator by using the appropriate adaptor rails (distance 176 mm or 167 mm, others on request)
Measuring Time:	Minimum 0.01 s
Attenuation Equivalent:	< 0.5 mm Al
Electrode Spacing:	4 mm
Chamber Voltage:	410 V ± 5 %

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