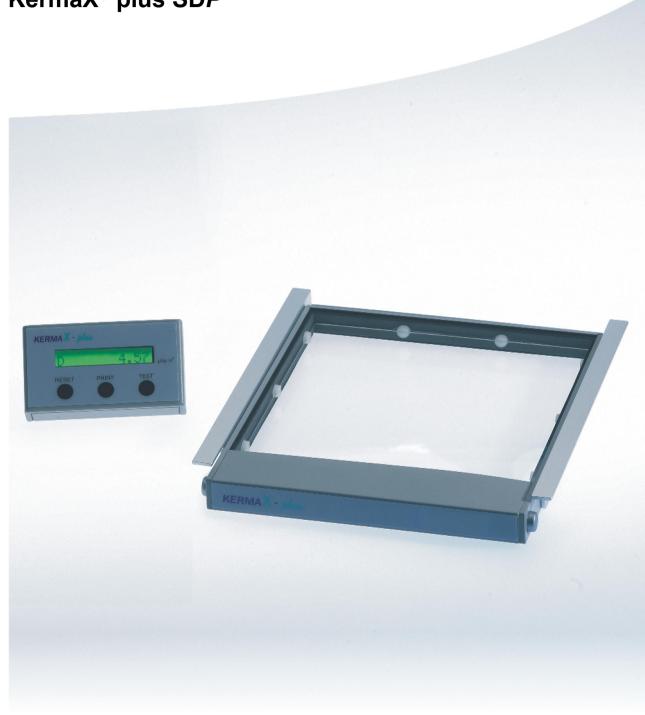


Patient Dose Monitoring and Quality Assurance **KermaX**[®] **plus SD***P*

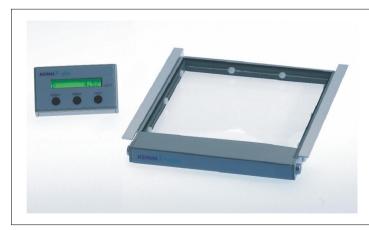


KermaX[®] plus SDP |

Our KermaX[®] plus SDP – is an ideal solution for a quick and convenient retrofit installation dedicated to measure DAP and DAP rate for patient dose monitoring.

- Rectangular, transparent ionization chamber with integrated electronics and an external Single Line Display Unit with a 10-digit internal background lighting LCD display;
- Measures DAP (μGym²) and DAP rate (μGym²/s) simultaneously.
- Including a RS 232 Interface for a computer or printer interface.
- Suitable for measurements in pediatric applications due to its digital resolution of **0.01 μGym²**.
- Easy installation due to cost effective and flexible cabling system based on telecommunication standard cables (no high voltage cable is used).
- Light transperancy of ≥ 75 %.
- This measuring system fully complies with the following standards:
 - IEC 60580 "Dose area product meters".
 - IEC 60601 "Medical Equipment General requirements for basic safety and essential performance"

System Components



Measuring & Indication Unit -

Compact measuring system consisting of a rectangular, transparent ionization chamber integrated electronics in connection with an external Singe Line Display Unit with a 10-digit internal background lighting LC-Display, with test / reset and print buttons;

Included is a RS 232 interface for connecting a printer or a PC (RIS / HIS) system.

Our quick and easy solution for cost-effective retrofit installations at undercouch tube systems.

KermaX® plus SDP |



Power Supply & Cabeling

- Power supply (external current supply) EN-conformable 60601-1
- and AKP cable, 18 m (extension up to 48 m possible) (connection measuring system - power supply) Respect. Single Line Display Unit

or

AC / DC Converter



Mounting Accessories -

- Adapter with accessory holder distance between collimator rails: 176 mm - for all popular X-ray units (e.g. for Siemens X-ray units) or 170 mm - for all popular X-ray units (e.g. for Philips X-ray units)
- 1 pair of rails, 176 mm (others on request)

Optional (for the use with additional filters)

1 pair of extension rails 176 mm (e.g. for Siemens units) or 170 mm (e.g. for Philips units)





Interface for RIS / HIS connection with existing software.

- Interface for Printer Setup:
 - Zebra LP 2844 Printer
 - Zebra LP 2824 Printer
 - Other printers available on request

KermaX® plus SDP |

Technical Specifications

Reproducibility:	< 1 % (at a constant pressure and temperature)
Energy dependence:	Better than ± 8 % related to 100 kV
	according to IEC 60580 from 40 to 150 kV
Dose Area Product Rate:	Minimum: 0,01 μGym²/s
	Maximum: 3 000,00 μGym² /s
Maximal Measurable Dose Area Product:	99999999,99 μGym²
Minimal Dose Resolution:	0,01 μGym²
Linearity:	Better than ± 2 %
Active Area:	146 mm x 146 mm
Optical Transperency:	≥ 75 %
Voltage Range:	15 - 28 V DC
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 %
AC / DC Converter:	95.9 mm x 55.5 mm x 30.5 mm (L x W x H)
	Not suitable for installing in the collimator.
	Connection cable for KermaX plus: 650 mm long
	Connection cable (input voltage): 900 mm long
	Maximum current consumption: 1 A
	Input Voltage: 20 - 50 V DC
	14 - 35 V AC
	When Using the AC / DC Converter it is absolutely essential that
	international standards and national laws are observed.
	NOT to be installed directly into the X-ray System.

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