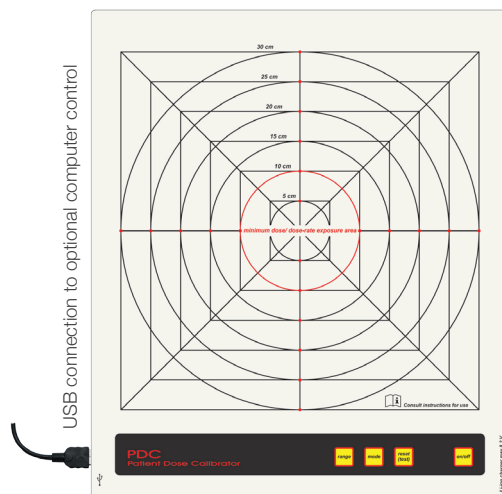


Quick and Easy Calibration - of Installed DAP (KAP) and Patient Dose Systems

What's it all about ?



Foam Elevation Support Stand



Patient Dose Control

Side Display Panel



TRACEABLE MEASUREMENTS - The PDC is a reference class instrument for "field calibration" of patient dose measurement and control systems thus ensuring the validity of inter-institution patient dose comparisons.

FLEXIBLE AND CONVENIENT - Use the PDC with a phantom to simulate patient imaging conditions including scattered radiation or mount the PDC on its support stand to measure air Kerma.

SIMPLE TO USE - The PDC displays DAP (KAP) and dose rate during an exposure then automatically switches to display accumulated DAP (KAP) and dose on exposure completion.

DEPENDABLE - A tough ABS plastic housing protects the ion chambers and electronics that incorporate several patented features to ensure long term stability.

THE GOLD STANDARD IN RADIATION MEASUREMENT

PDC KEY FEATURES AND BENEFITS:

KEY FEATURES

Complete DAP meter assessment:

Symmetrical Response:

Patient Dose System assessment:

1. Dose/DAP Air Kerma Calibration:
2. Entrance (skin) Dose / DAP Calibration and QA:
3. Image Receptor Dose/ DAP Calibration and QA:

Optional Remote Control Software:

Optical and radiographic alignment markers:

BENEFITS

Measures DAP, DAP-rate over a full range of field sizes and beam qualities

Can be used with under-couch tubes without the need for inversion

Measure Dose and Dose-rate

Measure DAP and dose linearity with dose and field size

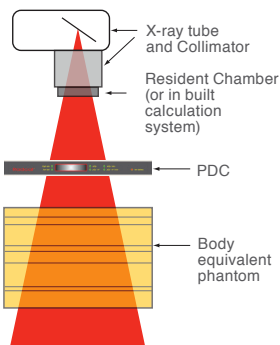
Surface dose calibration with phantom and establish reference DAP and dose levels

Verify Image Receptor dose measurements and AEC linearity testing

Automatic data capture with customizable templates

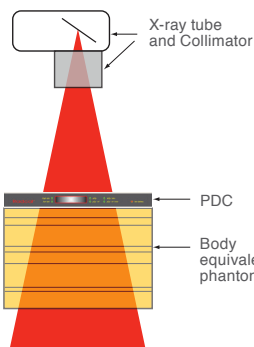
Setting reference field sizes made simple

APPLICATIONS



DOSE / DAP AIR KERMA CALIBRATION

- DAP and dose linearity with dose and field size.
- Sensitivity testing.
- DAP and dose calibration at the patient plane or at a reference distance.



ENTRANCE (SKIN) DOSE / DAP CALIBRATION AND QA

- Entrance surface dose calibration for different examinations using a phantom.
- Establishing examination related reference DAP and dose levels.

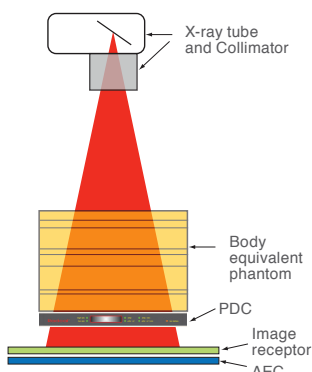


IMAGE RECEPTOR DOSE / DAP CALIBRATION AND QA

- Image receptor dose measurement.
- AEC linearity testing.

SPECIFICATIONS / TECHNICAL DATA:

Display Range

Dose area product
Air kerma

(0.01... 99 999 999) $\mu\text{Gy}\cdot\text{m}^2$
(0.001... 99 999 999) mGy

Accuracy

DAP and Air kerma

Inclusive of all uncertainties (temperature, pressure, rate, area and beam quality) $\pm 10\%$
Under reference conditions (10 mGy/min, 15 X 15 cm field, 80 kVp, 2.5 mm Al filtration) $\pm 7.5\%$

Digital Resolution

Dose area product
Dose area product rate
Air kerma
Air kerma rate

0.01 $\mu\text{Gy}\cdot\text{m}^2$
1 $\mu\text{Gy}\cdot\text{m}^2/\text{min}$
0.001 mGy
0.1 mGy/min

Rated range of use

Tube voltage
Dose area product:
(low rate range)
(high rate range)
Air kerma rate

(40 ... 150) kV
(1 ... 1·10⁴) $\mu\text{Gy}\cdot\text{m}^2/\text{min}$
(2·10³ ... 9·10⁵) $\mu\text{Gy}\cdot\text{m}^2/\text{min}$
(0.2 ... 9·10³) mGy/min (at the position of the chamber)

Automatic Temperature and Pressure Correction

Pressure
Temperature
Air humidity

(80.0 ... 106.0) kPa
(+10 ... +40) °C
(10 ... 80) % rel. humidity (max. 20 g/m³)

Ionization chamber

Response versus radiation quality
(50kV ... 150 kV, norm. to 100kV; acc. IEC 60580)
Quality equivalent filtration (70kV)
Active area
Dose area product
Air kerma

$\pm 3\%$
0.6 mm Al
max. (300 x 300) mm²
min. (100 x 100) mm²

Power supply

Internal rechargeable battery pack
operation time (state of charge: 100%)

Li-ION, 2 cells
> 8 h

Serial Interface

Protection class (acc. IEC 60529)
Weight
Dimension

USB
IP 41
2.32 kg
350 mm x 410 mm x 35 mm
(L x W x H)

All specifications subject to change.



PORTABLE CONVENIENT CARRY CASE

Foam Elevation
Support Stand fits
inside the interior of
the Carry Case lid.

