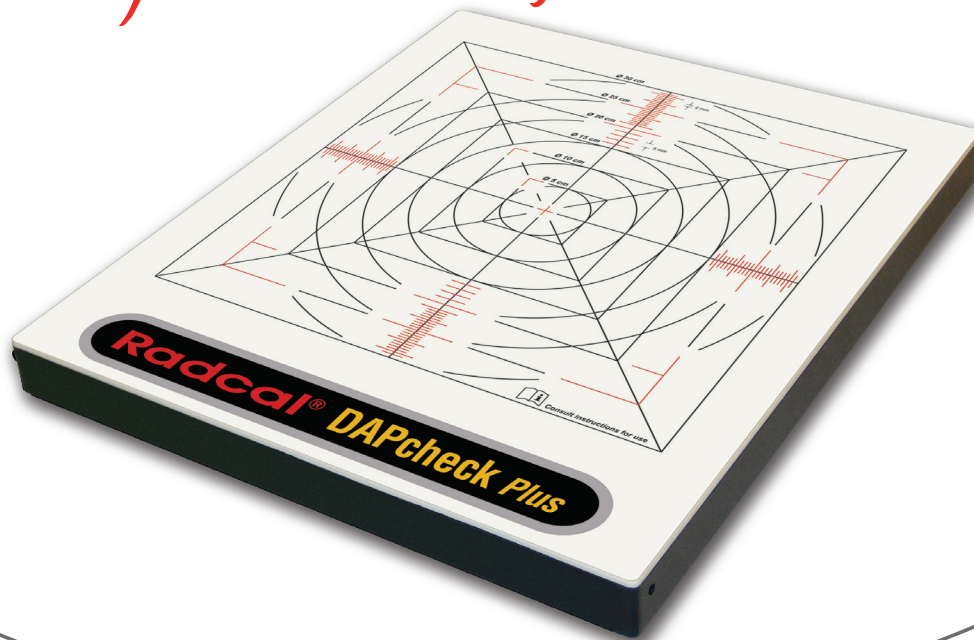


Radcal

DAPcheck Plus

Quick and Easy Calibration Check - Of Installed DAP Meters

Verify X-ray DAP & Light Field Congruence



Traceable Measurements - The DAPcheck Plus 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.

FAST AND ACCURATE - Utilizing the high speed digitization of the Accu-Gold digitizer, the DAPcheck Plus displays DAP and DAP Rate of accumulated DAP on exposure completion. Designed as an accessory to the Accu-Gold.

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

PLUS - Also provides X-ray to light field congruence



THE GOLD STANDARD IN RADIATION MEASUREMENT

DAPcheck Plus KEY FEATURES AND BENEFITS:

KEY FEATURES

Complete DAP meter assessment:

Symmetrical Response:

Remote Control Software:

Optical and radiographic alignment markers:

X-ray to light field congruence:

BENEFITS

Measures DAP and DAP Rate over a full range of field sizes and beam qualities

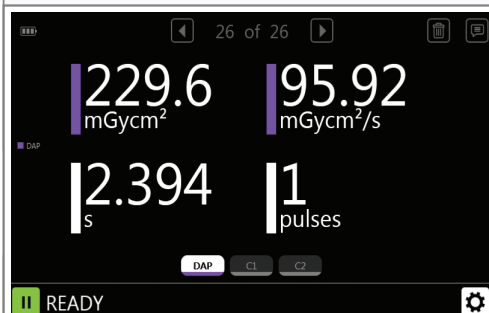
Can be used with under couch tubes without the need for inversion

Automatic data capture with customizable templates

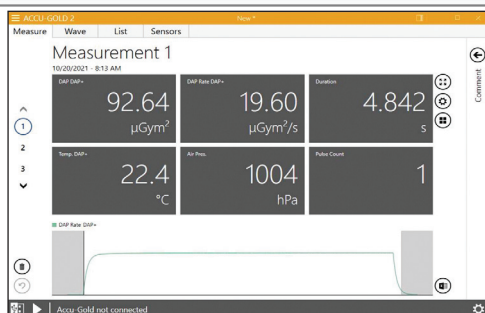
Setting reference field sizes made simple

Simultaneous measurements of light field congruence & DAP

DAP with Touch



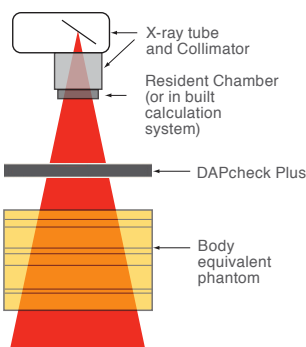
DAP with AG2



DAP with Excel

DAP VARIATION WITH FIELD SIZE				
kV	80	X Company DAP units		μGy.m2
mA	200	DAP Tolerance ±X%		25%
Time (ms)	100			
Focus	Broad			
Press Ctrl-Shift-R to start. Wait for cell to turn green before making exposure				
Area (cm)	X Company DAP (μGy.m2)	Sample	DAPCheckPlus (μGy.m²)	% DAP VARIATION
10 x 10	10	1	10.56	-5%
15 x 15	25	2	25.21	-1%
20 x 20	46	3	46.40	-1%
30 x 30	105	4	105.30	0%

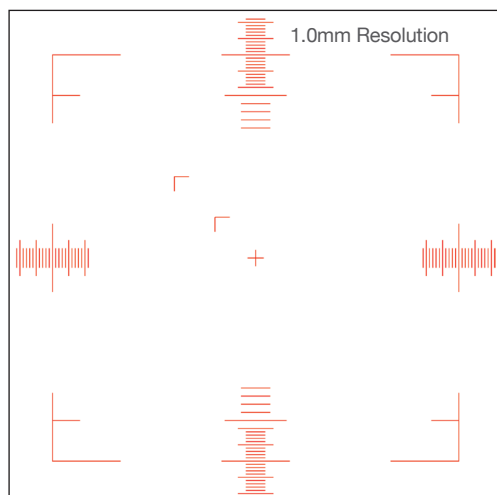
APPLICATIONS



DAP CALIBRATION

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

X-RAY TO LIGHT FIELD CONGRUENCE SCALE



SPECIFICATIONS / TECHNICAL DATA:

Rate Specification:

Range:
Resolution:

1 μGy-m²/min – 0.9 Gy-m²/min
1 nGy-m²/min

Exposure specification:

Range:
Resolution:

1 nGy-m²-1 Gy-m²
0.01 nGy-m²

Rated range of use:

40 – 150 kV

Calibration accuracy:

±3% using X-rays @ 100 kV (IEC 61627 RQR 8)

Accuracy over range:

±10% Inclusive of all uncertainties (e.g. temperature, pressure, rate, area & beam quality)

Chamber attenuation:

Equivalent to 0.6 mm Al @ 70 kV 2.5 mm Al total filtration

Active exposure area:

Max: 300 x 300 mm – Min: 15 x 15 mm

Note: a small internal support is located at the chamber center and that area should be avoided when using a small beam

Construction:

ABS housing, 350 mm x 410 mm x 35 mm (L x W x H), 3.32 kg, meets IEC 60520 IP 41

Automatic temperature/pressure compensation over the range of 80 – 106 kPa, +15 to +35 C, 10-80% rel humidity (max 20 g/m³) One-meter disconnect cable included

All specifications subject to change.



Model DAPCKP+

PORTABLE CONVENIENT CARRY CASE

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

