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

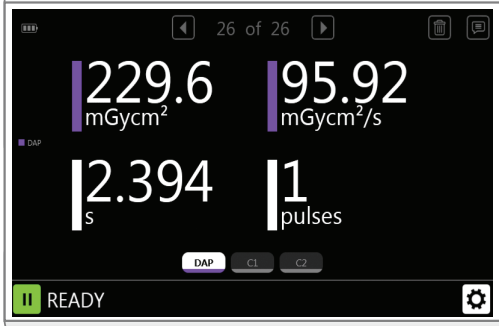
THE GOLD STANDARD IN RADIATION MEASUREMENT

Radcal 426 West Duarte Road Monrovia, CA 91016 USA T: (626) 357-7921 F: (626) 357-8863 www.radcal.com

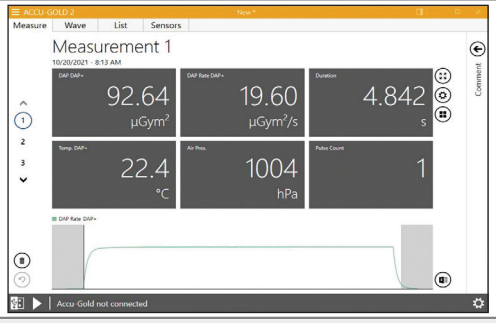
DAPcheck Plus KEY FEATURES AND BENEFITS:

KEY FEATURES	BENEFITS
Complete DAP meter assessment:	Measures DAP and DAP Rate over a full range of field sizes and beam qualities
Symmetrical Response:	Can be used with under couch tubes without the need for inversion
Remote Control Software:	Automatic data capture with customizable templates
Optical and radiographic alignment markers:	Setting reference field sizes made simple
X-ray to light field congruence:	Simultaneous measurements of light field congruence & DAP

DAP with Touch



DAP with AG2



DAP with Excel

DAP VARIATION WITH FIELD SIZE

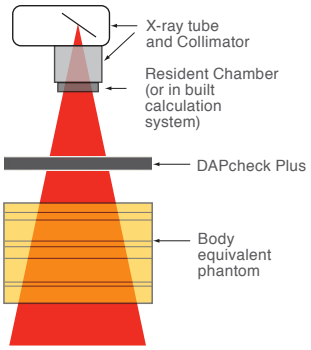
kV	80
mA	200
Time (ms)	100
Focus	Broad

X Company DAP units	µGy.m2
DAP Tolerance ±X%	25%

Press Cntl-Shft-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%

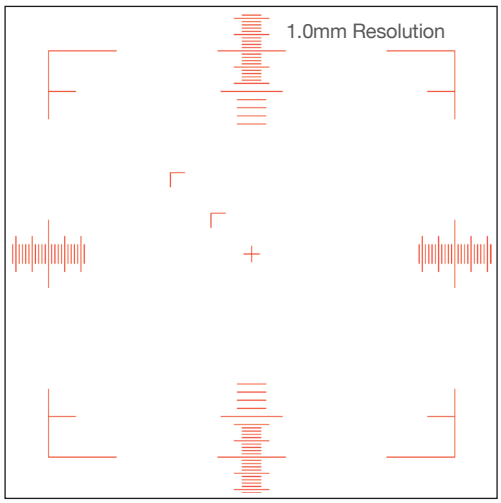
APPLICATIONS



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:	 100 nGy-m²/min – 0.91 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 CARY CASE

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