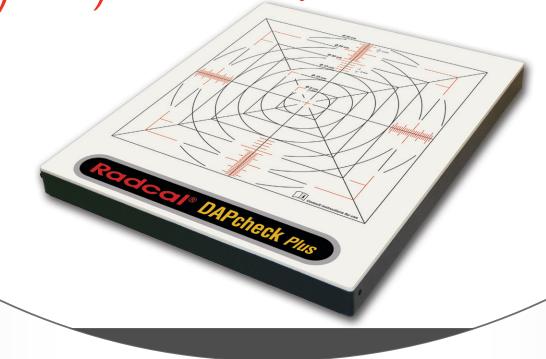


Quick and Easy Calibration Check - Of Installed DAP Meters

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



## **DAPcheck Plus KEY FEATURES AND BENEFITS:**

#### **KEY FEATURES**

**Complete DAP meter assessment:** 

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

**BENEFITS** 

**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:

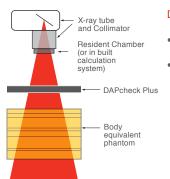
Simultaneous measurements of light field congruence & DAP

# XLGold (Excel Based) Customizable Template Example

	OUTPU	T CONSISTENCY	
kV	80	]	Baseline value
mA	200		Tolerance ± X%
Time (ms)	100		
FCD (cm)	100		
Focus	Broad		
Sample	DAPCheckPlus Reading	Deviation from baseline	Press Ctrl-Shft-R to start Wait for cell to turn green before making exposure
Sample 1			Wait for cell to turn green
Sample  1 2	Reading	baseline	Wait for cell to turn green
1	Reading 1.163	baseline 0%	Wait for cell to turn green

	D/	AP VARIATIO	N WITH FIELD SI	ZE	
kV	80	1	X Company DAP u	nits	μGy.m2
mA	200	1	DAP Tolerance ±X%	6	25%
Time (ms)	100	1			•
Focus	Broad	1			
	Diodd	ı			
Press Cntl-Shft-	R to start. Wait for X Company DAP (µGy.m2)	or cell to turn gree	en before making expo DAPCheckPlus (μGy.m²)	% DAP VARIATION	
Press Cntl-Shft- Area (cm)  10 x 10	R to start. Wait for X Company DAP (µGy.m2)	Sample 1	DAPCheckPlus (μGy.m²)	% DAP VARIATION -5%	
Press Cntl-Shft- Area (cm)  10 x 10 15 x 15	R to start. Wait for X Company DAP (µGy.m2)		DAPCheckPlus (μGy.m²) 10.56 25.21	% DAP VARIATION -5% -1%	
Press Cntl-Shft- Area (cm)  10 x 10	R to start. Wait for X Company DAP (µGy.m2)	Sample 1	DAPCheckPlus (μGy.m²)	% DAP VARIATION -5%	

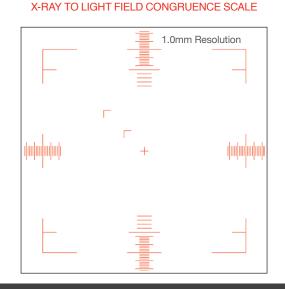
## **APPLICATIONS**



#### DAP CALIBRATION

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

#### V DAV TO LIQUIT FIFL D CONCOURNOE COM F



#### SPECIFICATIONS / TECHNICAL DATA:

### Accuracy

DAP

Inclusive of all uncertainties (temperature, DAP 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 rate

1µGy·m²/min to 0.91 Gy·m²/min

## Rated range of use

Tube voltage

(40 - 150) kV

## Automatic Temperature and Pressure Correction

Pressure

Temperature

Air humidity

(80.0 – 106.0) kPa

(+15 to +35) °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

± 3 %

0.6 mm Al

max. (300 x 300) mm<sup>2</sup>

Connection to Accu-Gold Digitizer Protection class (acc. IEC 60529) Weight

Dimension

One meter Disconnect Cable with 2 connectors IP 41

2.32 kg; 5.11 lbs

350 mm x 410 mm x 35 mm; 14 x 16 x 2 inches (L x W x H)

All specifications subject to change.

