

DAP calculation with Air Kerma

Air Kerma can be measured at the entrance of the X-ray image detector. Dose Area Product (DAP) can be calculated with formula:

$$\text{DAP} = k * \text{Air Kerma}$$

where: Air Kerma = measured dose at the image detector (Gy)

k = DAP to Air Kerma coefficient, listed in the table below

Planmeca Viso G5

Program	Volume diameter, mm	Volume height, mm	K (Air Kerma to DAP coefficient, cm ²)
Tooth	50	50	72,8
Teeth	90	90	236,0
Jaw	140	100	158,2
Face, lower part	160	105	188,6
Face, upper part	160	86	154,5

Program	Beam width, mm	Beam height, mm	K (Air Kerma to DAP coefficient, cm ²)
SmartPan	0,36	16,3	9,49
ProCeph	30	24,9	747

Planmeca Viso G7

Program	Volume diameter, mm	Volume height, mm	K (Air Kerma to DAP coefficient, cm ²)
Tooth	50	50	72,8
Teeth	100	100	291,4
Jaw	140	100	439,0
Face	160	160	309,0
Skull, lower part	260	151	462,5
Skull, upper part	260	196	600,4

Program	Beam width, mm	Beam height, mm	K (Air Kerma to DAP coefficient, cm ²)
SmartPan	0,36	16,7	9,81
ProCeph	30	24,9	747

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