

Comparison of Patient Dose with Equivalent Background Radiation

Technique	Effective Dose in microsieverts (ICRP 2007 Tissue Weights)	Dose as days of equivalent Background exposure (2400 μ Sv / years)
KODAK 9000 3D Incisor mandible region*** (70 kV - 10 mA)	4.70	0.71
KODAK 9000 3D Panoramic*** (70 kV - 10 mA)	7.00	1.06
KODAK 9000 3D Molar maxillary region*** (80 kV - 10 mA)	18.80	2.86
Panoramic* (OrthoPhos Plus DS)	22	3
Galileos Š** (default exposure)	68	10
I-CAT** - 9" FOV	70	11
NewTom3G** - 12" FOV	70	11
Iluma Š** (1.0mA, 20 sec scan)	111	17
Galileos Š** (maximum exposure)	125	19
PreXion 3D Š** (standard exposure)	185	28
I-CAT - Extended Scan**	248	38
PreXion 3D Š** (1,024 view scan)	378	57
CB Mercuray - I FOV** (maxillary)	412	63
Promax 3D** (small adult)	449	68
Somaton 64 MRD CT w/ CARE**	554	84
CB Mercuray - F FOV 10-100** (suggested exposure)	576	88
CB Mercuray - P FOV**	577	88
Iluma Š** (3.8 mA, 40 sec scan)	592	90
Promax 3D (large adult)**	599	91
Somaton 64 MRD CT**	886	135
CB Mercuray - F FOV 15-120** (maximum exposure)	1103	168

* from : Ludlow JB, et al, Dentomaxillofacial Radiology 2003 ; 32 : 229-34

** from : Ludlow JB, Dosimetry of CBCT Units for Oral and Maxillofacial Radiology

***from : Trophy, Measured by IRSN