

CBCT COMPARISON

Manuf.	Scanner Name	Detector Type	FOV in cm	Positioning	Rotation in degree	Images acquired during scan	Separate Pan Feature	Gray Scale	Voxel Size	Focal Spot	Scan Time (s)	Reconstruction Time	Radiation	kV	mA	Network Option	Free viewer
PreXion	PreXion3D	CMOS Flat Panel	8 x 8, 6 x 5	seated	360	512 / 1024	no	12 Bit	0.11, 0.16	0.2	19	30 seconds	67µSv	90kV	4mA	yes	yes
Imaging Sciences	iCat	Amorphous Silicon FPD	4, 6, 8, 10x16, 17x23	seated	360	160 - 600	yes	14 Bit	0.125, 0.2, 0.25, 0.3, 0.4	0.5	5, 8.9, 26.9	30 seconds	36 - 74 µSv			yes	iCat Vision
Gendex	Gendex CB 500	Amorphous Silicon FPD	8 x 8 8 x 14	seated	360	160 - 306	yes	14 Bit	0.4,0.3,0.25, 0.2,0.125	0.5	8.9, 23	95 seconds and less	15-74			yes	iCat Vision
Sirona	Galileos Compact	Image Intensifier	12 x 15	seated/stand-up	210	200	No	12 Bit	0.3	0.5	14	4.5 minutes	29 µSv , 68 µSv	85 kV	5-7mA	yes	yes
Sirona	Galileos Comfort	Image Intensifier	15 x 15	seated/stand-up	210	200	yes	12 Bit	0.3, 0.15	0.5	14	4.5 minutes	29 µSv , 68 µSv	85 kV	5-7mA	yes	yes
IMTEC	Iluma LFOV	Amorphous Silicon FPD	21,1 x 14.2, 10.8 x 9.6	seated	190 / 360	301 - 601	no	14 Bit	0.09, 0.2, 0.3, 0.4	0.3	7.8, 20, 40	2.5 / 5 minutes	no study	120 kV	1-3.8mA	yes	Iluma Viewer CD
IMTEC	Iluma SFOV	Amorphous Silicon FPD	10.8 x 9.6	seated	190 / 360	301 - 601	no	14 Bit	0.09, 0.2, 0.3, 0.4	0.3	7.8, 20, 40	2.5 / 5 minutes	no study	120 kV	1-3.8mA	yes	Iluma Viewer CD
Kodak	Kodak	CMOS Flat Panel	3.7 x 5	seated/stand-up	180	300	yes	14 Bit	0.127	0.5	13.9	2 minutes	no study	60 - 90 kV	2-15mA	yes	No
Kodak	9500 Medium-Field	Amorphous Silicon FPD	9 x 15	seated/stand-up	??	300 - 700	No	14 Bit	0.2, 0.3, 0.4	0.7mm	?	2'20 (depends on PC)	no study	60 - 90 kV	2-15mA	yes	No
Kodak	9500 Large-Field	Amorphous Silicon FPD	18.4 x 20.6	seated/stand-up	??	300 - 700	No	14 Bit	0.2, 0.3, 0.4	0.7mm	?	2'20 (depends on PC)	no study	60 - 90 kV	2-15mA	yes	Yes
PlanMeca	ProMax 3D	CMOS Flat Panel	8x 8 , 8 x 5, 4 x 5	seated/stand-up	191	300	yes	15 Bit	0.16, 0.3	0.5	18	30 - 150 seconds	45µSv - 252µSv			yes	yes
PlanMeca	ProMax 3D Max	CMOS Flat Panel	22x17, 10x13, 10x9, 5x5.5	seated/stand-up	200 / 450	300	No	15 Bit	0.1, 0.2, 0.4	0.5	18 / 30	30 - 150 seconds	45µSv - 252µSv			yes	yes
Morita	Aquitomo 80	CMOS Flat Panel	4 x 4, 6 x 6, 8 x 8	seated	360	500	no	13 Bit	0.08, 0.125, 0.16	0.5	18	3 minutes	1.6 Pan's	60-90 kV	1-10mA	yes	One Data Viewer
Morita	Veraviewepocs 3D / 3De	CMOS Flat Panel	4 x 4, 4 x 8, 8 x 8	seated/stand-up	194	260	yes	13 Bit	0.125, 0.2	0.5	9.4	3 minutes	1.8 Pan's	80 kV	1 - 10 mA	yes	One Data Viewer
AFP Imaging	NewTom 3G	Image Intensifier	7.9, 5.9, 3.9 inches	suspine	360	360	no	12 Bit	0.3, 0.4, 0.5	0.5 - 1.5	36	up to 20 minutes	60 µSv	110 kV	1 - 15 mA	yes	yes
AFP Imaging	NewTom VG	Amorphous Silicon FPD	15 x 15, 12 x 7.5	seated/stand-up	360	360	no	14 Bit	0.15, 0.24, 0.3	0.3	18	1 minute	110 µSv	110 kV	1 x 20 mA	yes	yes
Soredex	Scanora 3D	CMOS Flat Panel	7.5 x 14.5 / 7.5 x 10 / 6 x 6	seated	not published	not published	yes	12 Bit	0.15 - 0.35	0.4	10, 20	1 - 3 minutes	no study	60 - 85 kV	0.5 - 8 mA	yes	yes
EWO	Picasso Trio	CMOS Flat Panel	8 x 5 / 5 x 5	seated/stand-up	360	480 - 720	yes	16 Bit	0.2, 0.3, 0.4	0.5	18 / 24	20 sec - 2 minutes	no study	60 - 90 kV	2 - 10 mA	yes	yes
EWO	Picasso Duo	CMOS Flat Panel	8 x 5 / 5 x 5	seated/stand-up	360	480 - 720	yes	16 Bit	0.2	0.5	15 / 24	20 sec - 2 minutes	no study	60 - 90 kV	2 - 10 mA	yes	yes
EWO	Picasso Master	FPD	20 x 19 / 20 x 15 / 16 x 10 / 16 x 7	seated	360	480 - 720	no	14 Bit	0.2, 0.3, 0.4	0.5	15 / 24	9 - 51 seconds	no study	40 - 90 kV	2 - 10 mA	yes	yes
EWO	Picasso Master DS	FPD	20 x 19 / 20 x 15 / 16 x 10 / 16 x 7	seated/stand-up	360	480 - 720	no	14 Bit	0.164, 0.2, 0.3, 0.4	0.5	15 / 24	9 - 51 sec	no study	40 - 90 kV	2 - 10 mA	yes	yes
Suni	Suni 3D	CMOS Flat Panel	5 x 5 / upgradable to 8 x 5	seated/stand-up	194	not published	yes	16 Bit	0.2	0.5	8.3	1 minute	no study	40 - 90 kV	2 - 10 mA	yes	yes
Ritter Imaging	Orion	Image Intensifier	8.5 x 8.5 / 5.6 / 5.6	seated	220	not published	yes	14 Bit	0.11, 0.16	0.5	20	30 seconds	26 µSv	60 - 85 kV	5 - 7 mA	yes	yes
My-Ray	Skyview	Image Intensifier	15, 11, 7	suspine	190 / 360	not published	No	12 Bit	0.16, 0.23, 0.33	0.5 - 0.6	10 / 15 / 20 / 30	2 - 4 minutes	37 µSv	60 - 85 kV	5 - 7 mA	yes	yes
Yoshida	Finecube	CMOS Flat Panel	8 x 8, 6 x 5	seated	360	512 / 1024	no	12 Bit	0.11, 0.16	0.2	19	30 seconds	67µSv	90kV	4mA	yes	yes