Radiography Tech Guide

	Soredex (414) 747-1030 soredex.com	Imaging Sciences International (800) 205-3570 imagingsciences.com	PracticeWorks (800) 944-6365 kodakdental.com	Instrumentarium Dental (414) 747-1030 instrumentariumdental.com
Name of product	**Cranex D; Scanora 3D**	**i-CAT®**	**Kodak 9000 Family of Products**	**Orthopantomograph OC200D**
Cost	Cranex D with two transferable image receivers, $70,400; Cranex D with one transferable image receiver, $59,900; Scanora 3D , $169,900 (XV FOV Optional, $8,500)	N/A	Kodak 9000C Panoramic and Cephalometric System, $90,545; Above system with Focused-Field 3D, $129,000; Kodak 9500 Cone Beam 3D System, $180,000	OC200D with 2 dedicated image receivers, $94,900; OC200D with 1 transferable image receiver, $88,900
Digital or analog?	Digital	Digital	Digital	Digital
Footprint	Cranex D, Width 72", Depth, 47", Height 90"; Scanora 3D, Width 63", Depth 55", Height 77"	Less than 16 square feet	Operational space: Kodak 9000C/9000C 3D Systems, 5.23 D x 7.0 W; Kodak 9500 System, 5.66 D x 5.36 W	Width 74"; Depth 50"; Height 89"
Patient position	Cranex D, Standing; Scanora 3D, Seated	Seated/Wheelchair accessible	Seated/Standing/ Wheelchair accessible	Standing/Wheelchair accessible
Field of view	Cranex D, Pan 15 x 30 cm, Lateral Ceph 8" x 10", PA Ceph 8" x 10"; Scanora 3D, Small, 60 x 60 mm; Medium, 75 mm x 100 mm; Large, 75 mm x 145 mm; XL , 130 mm x 145 mm	Standard 13 height x 16 diameter, collimate to 4 cm height; optional Extended View (ceph) 17 height x 23 diameter	Kodak 9000C 3D System, 50 x 37 mm; Kodak 9500 system Large Field, 184 x 206 mm; Kodak 9500 system Medium Field, 90 x 150 mm	Pan 15" x 30"; Lateral Ceph 8" x 10"; PA Ceph 8" x 9"
Voxel size	Cranex D, N/A; Scanora 3D, .35, .3 mm, .25 mm, .5 mm, .133 mm	.4 mm, .3 mm, .25 mm, .2 mm, .125 mm	Kodak 9000C 3D System, .076 mm voxel; Kodak 9500 System, .2 mm voxel	N/A
Quality of image (in pixels/voxels)	Cranex D, Pan 3000 x 1500, Lateral Ceph 3000 x 2050, PA Ceph 2300 x 2300; Scanora 3D, 13-bit	.4, .3, .25, .2, and .125	Kodak 9000C 3S System, .076 x .076 mm; Kodak 9500 System, .3 x .3 mm for LFOV and .2 x .2 mm for MFOV	Pan, 3000 x 1500; Lateral Ceph, 3000 x 2050; PA Ceph, 2300 x 2300
Scan technology	Cranex D, Horizontal Slicing; Scanora 3D, CBCT	The scan is a volume of data and the i-CATVision™ software allows for slicing in any direction.	Kodak 9000C System, One-shot ceph; Kodak 9000C 3D System, One-shot ceph, CBCT; Kodak 9500 System, CBCT	Horizontal slicing
Scan time	Cranex D, Pan 11 seconds, Ceph 8–20 seconds; Scanora 3D, 10 seconds (standard res), 20 seconds (high res)	Standard 8.9 seconds	Kodak 9000C/9000C 3D system, 13.9 sec; Children: 13.2 sec*; Kodak 9500 System, 10.8 sec* *exposure time	Pan, 2.7-14.1 seconds; Ceph, 5-20 seconds
Radiation dose per image (in uSv)	Cranex D, Pan 12 uSv, Ceph 8-12 uSv; Scanora 3D, inquire	Standard 36 uSv	Kodak 9000C 3D System, 4.7-18.8; Kodak 9500 System Medium Field, 104; Kodak 9500 System Large Field, 224	Pan, 12 uSv; Ceph 8-12 uSv
Reconstruction time	Cranex D, instant; Scanora 3D, 20–40 seconds	Less than 30 seconds	Less than 1 minute (depends on computer configuration)	Instant
Software integration	Cranex D, Dentrix Eaglesoft, Softdent, Apteryx, Practiceworks, others; Scanora 3D, All DICOM-compliant software platforms	Scans are captured as DICOM data sets, which are easily transferred into all major third-party 3D imaging software programs.	Kodak Dental Imaging 3D Module, outputs DICOM formats and integrates with all DICOM environments	Software Integration Dentrix, Eaglesoft, Softdent, Apteryx, Practiceworks, many others
Ceph superimposition	Yes	Yes, with additional software	Yes, with additional software	Yes
Types of service available	Basic service can be done by office personnel/Phone support/Web-based support/On-site dealer support/Troubleshooting codes	Basic service can be done by office personnel/Phone support/Web-based support/On-site dealer support	Phone support/ Web-based support/ On-site dealer support/ Troubleshooting codes	Basic service can be done by office personnel/Phone support/Web-based support/On-site dealer support/Troubleshooting codes

Sirona Dental System, LLC (704) 587-0453 sirona.com	Panoramic Corporation (800) 654-2027 pancorp.com	Planmeca USA (630) 529-1929 planmecausa.com	Air Techniques (516) 433-7676 airtechniques.com	J. Morita USA (877) 566-7482 jmoritausa.com
ORTHOPHOS XG PLUS	**PC-4000 Direct Digital Panoramic X-ray Machine**	**Planmeca® ProSensor™ Intraoral Digital X-Ray Imaging System**	**Ortho ScanX Digital Imaging**	**Veraviewepocs 2D/3D**
Contact Your Local Sirona Representative	$525 per month	ProSensor System with Size O Sensor, $88,00 MSRP; ProSensor System with Size 1 Sensor, $10,700 MSRP; ProSensor System with Size O Sensor, $12,500	Suggested Retail Price $21,495	$75,800 MSRP (2D Pan/Ceph)
Digital	Digital	Digital	Digital	Digital
Pan, 3.4' x 4.5'; Pan/Ceph 6.4' x 4.5'	4' x 4' Recommended working area	Sensor length 3' or 6' cord; control box .39' x .15'	2' H x 1.25' W x 1.3' D	W 6.6' x D 4.4' x H 7.7' (with cephalometric)
Seated/Standing/ Wheelchair accessible	Standing/Wheelchair accessible	Seated	Seated or standing	Standing/Wheelchair accessible
N/A	15 x 30 cm	Sensor 0=2.55 cm x 1.89 cm; Sensor 1=3.15 cm x 2.07 cm; Sensor 3=3.6 cm x 2.6 cm	N/A	Cephalometric: LA 22.5 x 25.4; PA 22.5 x 20.3 3D: Ø 4 x H 4, Ø 4 x H 8, Ø 8 x H 8
N/A	N/A	N/A	TK mm	3D: 125 micrometer voxel
N/A	16-bit, 4-5Mb	17 to 33 lp/mm	20 lp/mm	Minimum 2.0 lp/mm at MTF 10%
CCD sensors	Cadmium Telluride Sensor provides 2-D Multi-Image Layer Focal Adjustments	One-shot intraoral direct digital acquisition	Phosphor Storage Plates	CBCT Volume Scan for 3D imaging, TDI horizontal scan for Panoramic and Cephalometric
Variable depending on program	12 Seconds	N/A	First intraoral image, 17 seconds; subsequent images, 4 seconds; pan images, 25 seconds; ceph, 32 seconds	Panoramic Image: High speed mode, 7.4 seconds; Super fine mode, 15 seconds; 3D Image, 9.4 seconds
Depends on program	70-90 kVp	N/A	N/A	20 to 105 microsieverts measured by ICRP 2007 protocol.
Instant	Instant	N/A	N/A	Approximately 1 minute for 4 x 4 cm FOV size with Core 2 Duo 2.2GHz Processor
All major third-party software	All Twain Compliant Practice Management and Imaging Software	Planmeca Romexis Software, Planmeca Dimaxis Software, Twain Driver and Info Carrier, Eaglesoft	See airtechniques.com for a list	Supports DICOM standard 3.0. Validated software including InVivoDental, Dolphin, and Cybermed
Yes	No	No	Yes	Yes, with additional software
Phone support/ On-site dealer support/ Web-based support	Basic service can be done by office personnel/ Phone support/ Web-based support	Basic service can be done by office personnel/Phone support/On-site dealer support/ Troubleshooting codes	Phone support/ Web-based support/ On-site dealer support	Phone support/ Web-based support/ On-site dealer support/ Troubleshooting codes