Focus on Radiography

	Carestream Dental (800) 262-8144 carestreamdental.com	ImageWorks (800) 592-6666 imageworkscorporation.com	Imaging Sciences International i-CAT (800) 205-3570 i-CAT.com
Product Name	**CS 9300C**	**Panoura 18S**	**i-CAT featuring Tx STUDIO**
2D or 3D?	3D	3D	3D
Cost	$169,500	Depends on configuration	$149,999
Footprint	85" wide x 94" tall x 63" deep	46" deep x 33" wide	48" wide x 69" high
Patient position	Seated, standing, wheelchair accessible	Seated, standing, wheelchair accessible	Seated, wheelchair accessible
Field of view	5 x 5 cm, 10 x 5 cm, 8 x 8 cm, 17 x 6 cm, 10 x 10 cm, 17 x 11 cm, 17 x 73.5 cm	5.5 cm x 8 cm; 5.5 cm x 4 cm	Standard Scan: 4, 6, 8, 10, 13 cm (h) x 16 cm (d), 8 cm (h) x 8 cm (d); Custom Mode: any height from 2 to 13 cm (h) x 16 cm (d); Extended Field of View (Cephalometric): 17 cm (h) x 23 cm (d)
Voxel size	.09 mm to .3 mm	.078	.125 mm, .2 mm, .25 mm, .3 mm, .4 mm
Image quality	The volume size is from 90 to 500 voxels	.078	See above

Scan technology		Carestream	ImageWorks	i-CAT
	CBCT	✓	✓	✓
	Horizontal slicing			✓
	One-shot	✓		
	Panoramic	✓	✓	✓
	Vertical slicing			✓
	Cephalometric		✓	

	Carestream	ImageWorks	i-CAT
Pan and ceph scan times	Pan: 14 seconds; ceph: 1 second (one-shot)	Pan: 8, 14, or 16 seconds; ceph: 8 seconds	3D Scans: 4.8 seconds; Quick Scan: 8.9 seconds
Radiation dose per image	5 x 5 cm: 46 μSv; 17 x 13.5 cm: 200 μSv; pan: 20 μSv	N/A	Quick Scan of full dentition: 36 μSv; Quick Scan 16 x 13 cm scan: 45 μSv
Reconstruction time	About a minute	Depends on computer processor	Less than 30 seconds
Integrates with what software?	Acquisition is through Kodak Dental Imaging Software Kodak/CS Ortho/OMS Imaging software. Integrates with all common practice-management software programs.	All imaging and practice-management software.	Tx STUDIO software InVivo; SureSmile; E4D Compass; Dentrix via DEXIS Link; practice-management compatible. (See Web site for up-to-date list.)
Does it do ceph superimposition?	Yes, with additional software	Yes, with additional software	Yes

Types of service		Carestream	ImageWorks	i-CAT
	User can do basic service	✓	✓	
	On-site dealer support	✓	✓	✓
	Phone support	✓	✓	✓
	Troubleshooting codes	✓	✓	
	Web-based support	✓	✓	✓

Focus on Radiography	J Morita USA (877) 566-7482 morita.com/usa	Panoramic Corporation (800) 654-2027 pancorp.com	PLANMECA USA Inc (630) 529-2300 planmecausa.com
Product Name	Veraviewepocs 2D/3D	Encompass	ProMax 3D Mid Pan/Ceph
2D or 3D?	3D	2D	3D
Cost	$75,800 (2D pan/ceph); $178,000 (3D R100 pan/ceph)	N/A	$189,754 to $194,794
Footprint	78 3/4" wide x 52 3/8" deep x 92 3/4" high (with ceph)	84" x 60"	81.2" wide x 53.8 deep x 63.4" to 94.1" high
Patient position	Standing, wheelchair accessible	Standing, wheelchair accessible	Seated, standing, wheelchair accessible
Field of view	Six fields of view from Ø 40 mm x H 40 mm up to Ø 100 mm x H 80 mm	N/A	4 x 5 cm, 4 x 7 cm, 7 x 5 cm, 7 x 7 cm, 9 x 5 cm, 9 x 9 cm, 16 x 5 cm, 16 x 9 cm, 16 x 16 cm
Voxel size	.125 mm	N/A	.0999 x .0999; .1999 x .1999; .3999 x .3999; .6 x .6
Image quality (in pixels/voxels)	125-micrometer voxel	N/A	High Resolution: 100 (400 or 450 frames); High Definition: 150 (500 or 600 frames); Normal: 200 (400 or 450 frames); Low Dose: 400 or 600 (300 or 450 frames)
Scan technology — CBCT	✓		✓
Scan technology — Horizontal slicing	✓		✓
Scan technology — One-shot	✓		
Scan technology — Panoramic	✓	✓	✓
Scan technology — Vertical slicing	✓		✓
Scan technology — Cephalometric	✓	✓	
Pan and ceph scan times	Panoramic: 7.4 seconds; 3D: 9.4 seconds	Pan: 14 seconds; ceph: 10 seconds	15+
Radiation dose per image	15 µSv (40 x 40 mm, 9.5 second scan) (measured ICRP 2007 protocol)	N/A	Varies, depending on image type, between 4.0 and 190.7 µSv
Reconstruction time	30 to 60 seconds	N/A	Varies depending on resolution of shot and number of volumes per exposure
Integrates with what software?	Supports DICOM standard 3.0. Validated software includes those from Anatomage, Dolphin, Materialise Dental, OnDemand3D, and TDO.	All Twain-compliant software	Comes with Romexis; integrates with all major dental practice-management/imaging software through TWAIN or Bridge.
Does it do ceph superimposition?	Yes, with additional software	No	Yes, with additional software
Types of service — User can do service			✓
Types of service — On-site dealer support	✓	✓	✓
Types of service — Phone support	✓	✓	✓
Types of service — Troubleshooting codes	✓		✓
Types of service — Web-based support	✓	✓	✓