CS 9300

Carestream
DENTAL

The power of flexibility

The new CS 9300 3D digital imaging system from Carestream Dental – take the guesswork out of examinations

The all-in-one CS 9300 is the most versatile multi-modality imaging system available from Carestream Dental. In addition to its exceptional 3D imaging capabilities, the CS 9300 also offers 2D digital panoramic imaging with variable focal trough technology for optimal clarity every time and a one-shot cephalometric imaging modality upgrade option*. For practitioners who have been waiting to integrate cone beam computed tomography (CBCT) into their practice, the CS 9300 offers the most extensive capabilities in one space-saving system.

The advantages at a glance

- Selectable field of view from 5 cm x 5 cm to 17 cm x 13.5 cm

- Panoramic, 3D and optional cephalometric*, imaging in one solution

- Superb image quality with up to 90 µm resolution
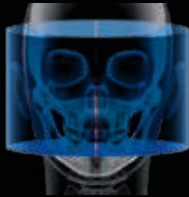
- Intelligent dose management
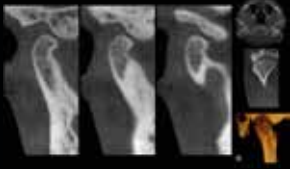
Ultimate practice flexibility

Which field of view is right for your practice? The CS 9300 offers you up to seven selectable fields of view – ranging from 5 cm x 5 cm to 17 cm x 13.5 cm. This gives you greater flexibility and the ability to collimate the field of view to suit your patients' every diagnostic need.
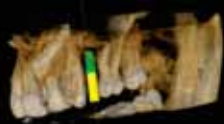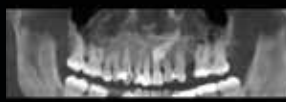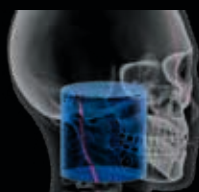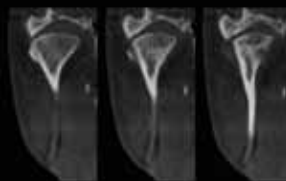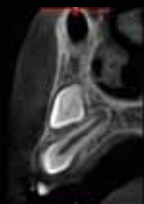
CS 9300

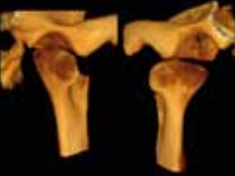| FOV	REGION OF INTEREST	SAMPLE IMAGES		RECOMMENDED APPLICATIONS
17 x 13.5				• Orthodontics • Complex treatment planning • Orthognathic surgery • Facial reconstruction • Traumas • Sinus and airway analyses
17 x 11				• Orthodontics • Complex treatment planning • Orthognathic surgery • Facial reconstruction • Traumas • Sinus and airway analyses
10 x 10				• Implantology • Complex impactions • Other cases involving both dental arches • Single TMJ assessments
17 x 6 – TMJx2				• Double TMJ assessments

CS 9300

FOV	REGION OF INTEREST	SAMPLE IMAGES		RECOMMENDED APPLICATIONS
10 x 5				• Implantology, • Impactions • Other cases involving one dental arch
8 x 8 – TMJx1				• Single TMJ assessments
8 x 8				• Implantology • Complex impactions • Other cases involving both dental arches
5 x 5				• Endodontics • Single implants • Impactions • TAD planning • Any applications requiring a high level of detail (90µm)

The CS 9300 reveals every detail

The power of all-in-one

From panoramic to CBCT, the CS 9300 combines 2D and 3D capabilities, incorporating all your practice's imaging needs in one system. With panoramic, seven selectable 3D sizes and optional cephalometric images, the CS 9300 produces more precise images in every modality, enabling you to see any anatomical examination from every angle with 1:1 acuracy.

Superb image quality

With image resolution up to 90 μm, the superb quality of the CS 9300 allows you to collect valuable diagnostic information for a range of clinical applications, including focused-field, single jaw, dual jaw, single and double TMJ, dual jaw, sinus and maxillofacial.

Intelligent dose management

The CS 9300 gives practitioners more control in limiting radiation exposure to patients. Cone beam CT used for image capture, delivers lower radiation dosage than conventional CT units. The system also allows the user to collimate the imaging area – based on clinical needs – to further limit radiation exposure. In addition, images are taken in as little as 12 seconds depending on the chosen field of view, reducing both exposure time and blurred images.

The system is also equipped with preview image "scout" technology, allowing you to evaluate patient positioning before 3D acquisition. This combination of speed, image quality and precision placement dramatically reduces the need for retakes.

Optional cephalometric modality features "one shot" technology, capturing the image in less than a second, reducing exposure time and the risk of retakes. These enhanced capabilities facilitate the ALARA Principle, or "As Low as Reasonably Achievable," which dictates that every precaution should be taken to minimize radiation exposure for patients.

Discovery made easy

Carestream Dental creates innovative products based on user-driven design. The CS 9300 has been developed with face-to-face positioning for direct contact between the patient and practitioner, while its fully motorized movement enables easy adjustment, even for wheelchair users.

The CS 9300's streamlined user-interface and computer controlled system reduces time and effort. Pre-set programs, automatic exposure settings and collimation reduce setup and examination time, which means speedier workflow for you, and less time in the dental chair for your patients.

Choose the desired field of view by selecting the program from a streamlined user-interface with clear graphics

The device positions itself to the region of interest and automatically adjusts exposure settings and collimation

Adjust the unit's position directly on the control panel

Control and adjust the patient placement using laser beams and a comprehensive choice of positioning accessories

Integration is simple

See images in stunning detail with CS 3D Imaging software, which is designed to comprehensively enhance your diagnostic view through integration with leading imaging programs such as NobelGuide™, Simplant® and SureSmile*. Our software is DICOM-compliant, and compatible with PACS and medical printers, enabling you to get the best possible clinical value out of your CS 9300 images, while retaining your preferred third-party imaging software.

CS 3D imaging is a feature-rich software that makes easy image review and treatment planning.

Easy case review and planning

The CS 9300 comes with complimentary, pre-installed CS 3D Imaging software from Carestream Dental. This innovative software not only facilitates a number of functions that enhance treatment planning, it delivers fast, accurate results for better patient communication. View images slice-by-slice in axial, coronal, sagittal, cross-sectional and oblique views for enhanced diagnostic interpretation. CS 3D Imaging includes a sophisticated implant planning features that comes with pre-loaded libraries from implant manufacturers and giving you the flexibility to create your own custom implant sizes.

* Pending final certification

Uncover a wealth of benefits

For more confident diagnosis and treatment than ever before, it has to be the CS 9300. The most accurate images enable better treatment communication between dentist and patient, while easy file sharing and fast access to 3D examinations means easy referral and fewer patient visits.
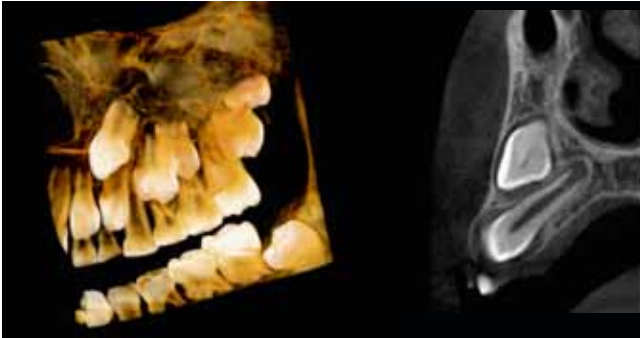
A wise investment

With easy set-up, greater treatment possibilities and optimized integrated workflow, the CS 9300 offers excellent return on investment, saving you time, space and money. Fulfill your practice's every needs with the CS 9300.

Clinical results

5 cm x 5 cm

It is often quite difficult to visualize impacted supernumerary teeth with traditional 2D imaging. However, with the addition of 3D imaging,

10 cm x 5 cm

the practitioner can evaluate with greater ease and accuracy the presence of supernumerary teeth and their position in relation to adjacent teeth.

5 cm x 5 cm

With a wide range of field of view sizes, combined with a powerful implant planning module integrated within the CS 3D Imaging software, the CS 9300 enables comprehensive evaluation and treatment planning of the implant site in any dimension.

10 cm x 10 cm
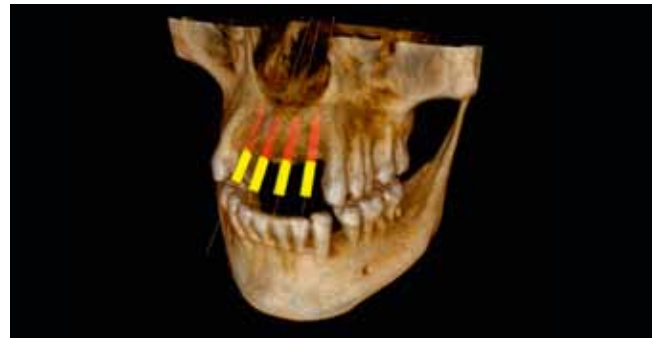
With pre-loaded implant libraries, you can choose the actual size and shape, allowing you to plan treatment with greater accuracy. These also show a visual representation of the long axis, the restorative space and allow you to plan customized abutments.

17 cm x 13.5 cm

The larger field programs of the CS 9300 provide a comprehensive assessment of the maxillofacial complex of your patients prior to beginning treatment. Maxillofacial modes are ideal for orthognathic surgery, complex orthodontic cases and implant planning.

17 cm x 6 cm
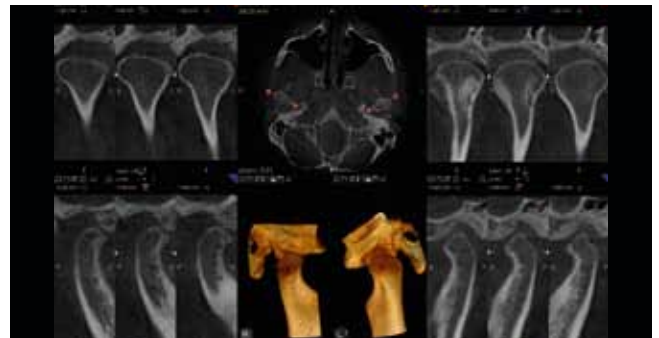
The robust TMJ features of the CS 9300 enable complete analysis of the condyles, joint space and surrounding structures.

Technical Specifications

3D Modality		Cephalometric Modality	
Sensor type	TFT	Sensor technology	CCD
Scan mode	Continuous and pulse	Exposure time	0.1 to 3.2 seconds
Scanning time	12-28 seconds (+/- 10%)	Radiological exam options	Lateral, frontal AP or PA, oblique, submento-vertex, carpus
Voxel size (µm)	90 to 500	Acquisition format size (cm)	18x18, 18x24, 24x24, 24x30, 30x30
Field of view (cm)	5x5, 8x8, 10x5, 10x10, 17x6, 17x11, 17x13.5		
Reconstruction time	Less than 2 minutes based on the recommended computer system configuration requirements		

Panoramic Modality		X-Ray Generator and Other Specifications	
Sensor technology	TFT	Tube voltage	60 - 90 kV
Exposure time	4 to 16 seconds	Tube current	2 - 15 mA
Radiological exam options	Panoramic, segmented panoramic, maxillary sinus, LA TMJ x 2, LA TMJ x 4	Frequency	140 kHz
		Tube focal spot	0.7 mm (IEC 60336)
		Input voltage (AC)	220/230/240V - 50/60Hz 100/110/130V - 50/60Hz
		Weight	160 kg (353 lb.), with cephalometric module: 199 kg (437.8 lb.)
		Footprint	Without cephalostat: 1158 (L) x 1595 (D) x 2378 mm (H)
			With cephalostat: 2137 (L) x 1595 (D) x 2378 mm (H)

Warning: Class 2 laser product. Do not stare into the beam.
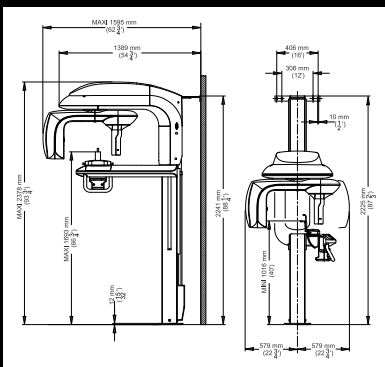
Service and support, guaranteed

Like all Carestream Dental products, both the CS 9300 and CS Software are intuitive and easy to use, requiring minimal training, enabling maximum practice productivity. In addition, the CS 9300 is fully backed by expert support and extended warranty programs for optimal return on investment.

Discover the CS 9300:

Visit **www.carestreamdental.com/9300** or contact your local authorised dealer.

Want to subscribe to our newsletter? E-mail dentalnews@carestream.com.

Flexible field of view available in seven sizes, from 17 x 13.5 to 5 x 5cm.