EXTRAORAL SOLUTIONS
EXTRAORDINARY POSSIBILITIES
A SOLUTION FOR EVERY CLINIC AND ANY CONSULTATION

Today, 2D and 3D imaging technology is no longer restricted to the specialized few. Our digital systems can significantly improve workflow efficiency, safety and communication for any dental professional.

From diagnosis, consultation and planning to surgery—all the way to your final results—our solutions allow you to work quickly, confidently and economically; ultimately helping your patients feel more comfortable in your care.

“The CS 8100 does more than my old machine and is half the size! The unit provides sharp images with more detail and the learning curve is minimal. Simply put, capturing a panoramic image has never been easier.”

Dr. Bartley Labiner, Labiner Oral Surgery, Bronx, NY

“The CS 8100 3D is a must for endodontists when it comes to clinical decision-making. Some of my favorite features are its compact size, multi-function 2D-3D imaging and easy and mistake-free acquisition.”

Dr. Peter Kapsimalis, Summit, NJ

“The biggest advantage of the CS 9300 is that it has a number of options in field of view. The CS 9300 allows me to limit the field of exposure to only my area of interest and to obtain images with higher clarity.”

Mark K. Setter, Port Huron, Michigan

CS 8100 FAMILY
An ultra-compact panoramic system designed with simplicity in mind. The CS 8100 family is ideal for any of your routine examinations.

CS 8100 3D FAMILY
An international best seller, the CS 8100 3D family combines award-winning 2D imaging with the power of CBCT imaging.

CS 9300 FAMILY
Dental professionals around the world have experienced the versatility of the CS 9300 for their oral and maxillofacial surgeries, implant treatments, orthodontics and beyond.

CEPHALOMETRIC OPTION FOR ANY IMAGING SOLUTION
Our equipment can meet all your orthodontic needs with state-of-the-art cephalometric technology and software, including automatic tracing.

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GREATER POSSIBILITIES WITH 3D
CBCT solutions can be used in everything from everyday procedures to implants, endodontic treatments, third-molar removal, pre-surgical planning and more.

CBCT PROVIDES FASTER RESULTS
With highly detailed and fast examinations, you can aim to reduce treatment time and the number of appointments necessary to achieve stunning results.

IMPROVED TREATMENT UNDERSTANDING AND ACCEPTANCE
Patients want to be better informed. And with clear 3D images, it’s easier for patients to see, understand and accept their treatment plan. This facilitates even greater clinical efficiency and practice success.

HARNESS THE BENEFITS OF 3D IMAGING
IMAGING THAT HELPS REMOVE UNCERTAINTY
You see your patients in 3D, so it only makes sense to see their teeth that way too. Three-dimensional imaging gives you the best possible view of the patient anatomy and, unlike 2D imaging, removes any guesswork or doubt. Seeing the complete clinical picture results in enhanced diagnosis, improved case acceptance and timely outcomes. And the best part is that, with Carestream Dental, you can do it all at the lowest possible dose.
Endodontics requires the most detailed images and the most accurate knowledge of canal morphology. High-resolution 3D images—up to 75 microns—help you visualize complex anatomy, hard-to-find canals and traumas. By having these images, diagnosis is made easier, reducing treatment time and providing the clear, captivating images necessary to support case acceptance.

Three-dimensional imaging is now the standard of care when planning implants. CBCT systems provide a wide range of fields of view to cover all your implant indications. Our comprehensive implant planning software makes treatment planning simple and helps improve case acceptance and confidence in your care.

Diagnose endodontic pathosis.

Assess canal morphology.

Analyze external and internal root resorption.

Evaluate root fractures and trauma.

Evaluate bone quantity and quality, and localize anatomical obstacles.

Take precise measurements using true 1:1 ratio.

Plan implants using specialized 3D software.

Create surgical guides with third-party software.

Collaborate with referrals.
CBCT helps you identify the many variables needed to perform oral and maxillofacial surgeries successfully. Carestream Dental’s 3D solutions give you that possibility and so much more.

**ORAL AND MAXILLOFACIAL SURGERY SUCCESS**

CBCT helps you identify the many variables needed to perform oral and maxillofacial surgeries successfully. Carestream Dental’s 3D solutions give you that possibility and so much more.

**QUICK AND PRECISE ORTHODONTIC IMAGERY**

Low-dose CBCT imaging is the perfect complement to your 2D panoramic and cephalometric imaging. A versatile extraoral imaging solution allows you to quickly create digital models and keep your patients updated on their treatment process.

- Identify relationships between impacted teeth and vital anatomical structures.
- Define surgical protocol for impacted tooth extractions, cyst removals or periapical lesion treatments.
- Make preoperative and post-operative assessments.
- Visualize cysts and periapical lesions.
- Analyze skeletal symmetry and plan orthognathic surgical treatment.
- Plan placement of temporary anchorage devices.
- Assess TMJ and occlusion.
- Analyze upper airway.
- Evaluate ectopic and impacted teeth.
HIGH QUALITY IMAGES, LOWEST POSSIBLE DOSE

Carestream Dental units incorporate all the technologies you need for the best possible results at the lowest dose by combining high frequency generators, state-of-the-art sensors and image processing. This leads to improved 3D image resolution—up to 75 microns—enabling you to see the smallest details of root and canal morphology. High-precision images give you a more accurate view of your patients’ dental anatomy for improved diagnostics and treatment.

With an effective dose, as low as 3μSv for 5 cm x 5 cm adult exams, the CS 9300 system with Low Dose imaging delivers up to an 85% lower radiation dose than 2D panoramic imaging.*

EndoHD mode delivers extremely high resolution images (up to 75 μm) perfectly suited for endodontic indications.

Up to 85% lower radiation dose than panoramic imaging.*

*In 5 cm x 5 cm adult exams – dose reductions ranging from 0% to 85% depending upon the size of field-of-view used. Based on a study by John B. Ludlow, University of North Carolina, School of Dentistry, August 2014, utilizing the CS 9300 low dose protocol and in vitro study by John B. Ludlow, University of North Carolina, School of Dentistry, June 2011, measuring the CS 9300 doses and comparing them to panoramic exams dose.
ACCESS ALL YOUR IMAGES IN ONE PLACE

Carestream Dental’s suite of imaging software puts all your images right at your fingertips. One platform gives you access to all of your digital images and CAD/CAM systems, allowing you to easily see and access all of the information you need for practice success.

► Patient database: Access patient images and CAD/CAM data through one patient database.

► All images stored centrally: Easy access to images speeds up your workflow.

► Intuitive user interface: Easily navigate, organize and obtain the image you need with less clicks.

► Review and share: Use 3D implant planning functions, review results and share images from day 1.

► Modular: Use as standalone programs or integrate within practice management software.

► Add-on software: Addresses the specific needs of your specialty and integrates with your imaging center’s workflow.

GET THE MOST FROM EVERY IMAGE

POWERFUL AND EASY-TO-USE SOFTWARE TOOLS

Designed to support everyday diagnostic needs, our suite of user-friendly imaging software provides the powerful tools you need to effectively analyze and customize the look and feel of your images and improve your examination efficiency.

POWERFUL DIAGNOSIS AND PLANNING TOOLS

Cover the needs of general dentistry, implant planning, endodontics, orthodontics, maxillofacial surgery and imaging centers.

IMPLANT LIBRARY

Integrated implant library includes more than 60 international implant manufacturers.

CONTEXT FEATURE

Allows users to instantly save and retrieve all images associated with a treatment.
IMPROVING COMMUNICATION AND COLLABORATION

Clear communication is key to successful colleague collaboration and enhanced patient treatments. Carestream Dental software empowers you with the capabilities to easily share your files with third-party partners for smooth transmission of data while at the same giving you images that facilitate patient communication, improve case acceptance and optimize the final results.

FOR YOUR PATIENTS

Present the high-quality images your patients need in order to better understand their treatment plan.

- PERSUASIVE IMAGES
  Stunning 3D rendering provides clear views of the patient anatomy and offers meaningful educational support.

- COMMUNICATION
  Clear images provide powerful visuals to enhance patient communication and understanding.

- PRESENTATIONS
  The Slide Show mode creates compelling presentations for patients.

FOR YOUR PARTNERS

Carestream Dental’s intuitive software and solutions facilitates collaborative work and smooth communication with insurance companies and referring doctors.

- IMAGE VIEWER
  2D and 3D image viewer and software can be shared with colleagues or referrals to facilitate case collaboration.

- REPORTS AND PRINTS
  Versatile options for printing images and customizable reports are available.

- DICOM
  Native DICOM format files are compatible with leading third party software (NobelGuide, SimPlant, etc.).

- COPY/PASTE
  Images can be copied and pasted directly into documents (Word, PowerPoint, etc.).

- SHARE
  Images can be stored in a variety of common formats and shared easily with anyone using USB flash drive, CD/DVD, email or lightweight screen capture.
DIGITAL SOLUTIONS: A WORLD OF OPPORTUNITIES

Take your practice to the next level with Carestream Dental’s 3D applications. Our CBCT systems allow you to obtain high-precision digital 3D models by simply scanning impressions, radiographic guides or plaster models. This scanned data enables you to perform implant planning, orthodontic applications and restorative procedures in your practice with our integrated CS Solutions portfolio.

► Our solutions and add-on software are designed to address your specific needs in implant planning, orthodontic applications and CAD/CAM restoration.

► As an open solution, data can also be exported to third-party software.

PROSTHETIC-DRIVEN IMPLANT PLANNING

Use CS 3D Imaging software with its new Prosthetic-Driven Implant Planning module to plan implants with more precision. The software allows you to combine Carestream Dental’s CBCT and digital impression data and add virtual crowns and implants to create a more comprehensive treatment plan. By using a fully digital workflow and crown-down approach, practitioners can now perform implant procedures in fewer appointments, maximize treatment outcomes and improve patient satisfaction.

► Use virtual implants from a comprehensive library of over 60 manufacturers.

► Create surgical guides by exporting the 3D data into third-party surgical guide software.

CAD/CAM RESTORATIONS

All of our CBCT systems are restoration ready, meaning you can simply and quickly obtain digital models by scanning your patients’ conventional impressions. Depending on your preferred workflow, the digital impression can then be sent to the lab via CS Connect or processed easily in your practice using our CS Restore software to design and mill the crown in-house.
ENGAGING TREATMENT PLANS
RISING CASE ACCEPTANCE

At Carestream Dental, we know the importance of patient education. That’s why we’ve created software that helps you do more than just analyze the problem, with optional modules that allow you to clearly see airways in 3D, analyze digital orthodontic models easily and perform treatment simulations quickly.

AIRWAY ANALYSIS*
Combined with low dose CBCT exams, the new CS Airway module* allows doctors to easily segment airway in just a few clicks to visualize airway constrictions and communicate areas of concern to the patient.

*Work in progress – not available for sale. Not compatible with CS 8100 3D Family.

Scan both patient’s impression and plaster cast to create digital model.
Store models digitally to eliminate plaster and avoid time-consuming model inventory procedures.
Send digital files directly to lab for appliance fabrication.

ORTHODONTICS—CS MODEL
Eliminate the cost and hassle of plaster models with CS Model. When used with one of our CBCT systems or intraoral scanners, CS Model makes it easy to create and analyze accurate digital models for orthodontic applications. Thanks to realistic 3D model, you can create more engaging treatment plan boosting case acceptance.

Save time with automatic detection and labeling of the teeth.
Assess the level of difficulty of your case from a wide range of common industry standards.
Simulate various virtual setups by using different therapeutic treatment options.

ORTHODONTICS—CS MODEL+ *
Use CS Model+ to evaluate your digital models and to simulate treatment plans within minutes. CS Model+ helps patients understand their treatment needs and visualize possible treatment outcomes.

*Work in progress – not available for sale.
With the most user-friendly design and digital technology possible, Carestream Dental’s extraoral imaging systems enable you to spend less time preparing and completing examinations and more time caring for patients.

The intuitiveness of our extraoral systems makes positioning and image capture comfortable for both new and more experienced users.

The intuitive user interface and computer-controlled system make selecting settings and entering patient information easy and fast, with preset programs and exposure settings that help to minimize errors.

Face-to-face positioning and smart positioning accessories facilitate proper patient placement and increase accuracy.

Fully wheelchair accessible, our units can be easily adjusted for patients of all ages, standing or sitting.

Stable, open design and fast scanning time reduce the risk of motion artifacts and increase patient comfort.

Smart bite blocks facilitate patient placement and reduce the risk of positioning errors and retakes.
POWERFUL PROGRAMS AND PANORAMIC POSSIBILITIES

Due to its low dose and simplicity, 2D panoramic imaging is an indispensable tool for the majority of dental practices. Whether you are a general practitioner or a specialist, Carestream Dental’s digital units and complete range of programs cover all your routine panoramic needs, delivering superb images in seconds.

CS ADAPT MODULE—SOFTWARE THAT MAKES A CLEAR DIFFERENCE

With the evolving CS Adapt module, you get impressive image quality and clarity with the ability to customize the look and feel of your panoramic images. One click lets you enhance image contrast and sharpness using our artifact-free filters. This filter prevents the creation of dark halos that are often mistaken for caries, lesions or bone loss around radio opaque areas.
OUTSTANDING CEPHALOMETRIC IMAGES AT RECORD-BREAKING SPEED

Cephalometric technology has never provided images so powerful. From one-shot cephalometric imaging to the fastest scanning cephalometric technology in the world, our extraoral units are ideal for all your orthodontic needs. Whatever technology you choose, you are guaranteed consistent, high-quality images at the lowest dose, and benefit from exclusive features, such as automatic tracing.

WORLD’S FASTEST CEPHALOMETRIC SCANNING
Scan images in as little as 3 seconds* and reduce the risk of motion blur, all while reducing exposure time.

A FULL RANGE OF PROGRAMS FOR ORTHODONTIC AND ORAL SURGERY
From cranial options to a low dose format, our cephalometric systems provide a wide range of fields of view and image types to meet all your treatment planning needs. And by collimating the image field to the area of interest, you can limit the exposure area for better patient protection.

ONLY 90 SECONDS FOR FULL CEPHALOMETRIC TRACING
Forget about spending up to ten minutes turning an exam into a tracing. With Carestream Dental’s exclusive automatic tracing software, your images are turned into tracings in just 90 seconds*.

The software automatically recognizes and traces anatomical structures—saving you and your team valuable time and giving you faster results. The software covers the most common analysis needs, such as Ricketts, McNamara, Steiner and Tweed. And you can save even more time by using the editor function to personalize your tracings and create your own templates.

PRE-SET ORTHODONTIC FILTERS
Better visualize hard and soft tissue and choose between different looks, clarity and feel image options.

*18 cm x 24 cm lateral image, Fast Scan mode.
THE SIMPLICITY OF COMPACT PLUG-AND-PAN IMAGING

The CS 8100 family combines advanced imaging technology in an extremely compact and simple system. The award-winning CS 8100 makes positioning easier, image acquisition faster and higher image quality more accessible. Easy to install, learn and use, it’s the perfect unit for everyday general practices and can cover your orthodontic, panoramic and cephalometric needs.

Ultra-compact size fits any practice.
Face-to-face and transparent positioning support patient security and reduce feelings of confinement.
Pre-set programs and step-by-step instructions to minimize set-up time and errors.

Sharp, high-quality panoramic images delivered quickly.
Complete range of programs including segmented bitewing.
The fastest cephalometric scanning system in the world (optional).*
A thicker focal trough eliminates the need for laser beam and facilitates positioning.

*18 cm x 24 cm lateral image; Fast Scan mode.
CS 8100 3D FAMILY

CARESTREAM DENTAL’S MOST SUCCESSFUL 3D UNITS*

These multi-functional imaging systems blend award-winning 2D panoramic technology, powerful CBCT imaging, and 3D model scanning with an optional cephalometric imaging module. The CS 8100 3D family covers virtually all of your needs by providing you all the tools through a single imaging system that makes 3D technology accessible to everyone.

Selectable fields of view, from 4 cm x 4 cm to 8 cm x 9 cm.

Award-winning 2D technology delivers outstanding panoramic images for routine diagnostic needs.

The world’s fastest cephalometric imaging* and tracing unit, including automatic tracing.

EndoHD mode at 75 µm provides perfect visualization of root and canal morphology.

Low Dose mode delivers 3D images at the same or lower dose than a panoramic exam.

3D model scanning offers new options for implant planning, surgical guide creation and orthodontic applications.

12,000+ UNITS IN OFFICES AROUND THE WORLD!*
THE MOST POWERFUL AND VERSATILE IMAGING SYSTEM

The CS 9300 family sets a new standard of system versatility that facilitates the highest detail of care for both dental practitioners and multi-specialty practices and imaging centers. With up to seven selectable 3D fields of view and full skull imaging, this system is the ideal choice for the diagnosis, surgery and adjunctive treatments of oral and maxillofacial surgeries including orthognathics, while facilitating the highest detail of care and adaptability for implants and orthodontics. The CS 9300 family is Carestream Dental’s most adaptable imaging system, giving any clinic power and versatility.

Selectable fields of view, from 5 cm x 5 cm to 17 cm x 13.5 cm.

Low Dose mode minimizes exposure and is ideal for young patients, follow up exams and airway.

Broadest range of fields of view, including full jaw, maxillofacial imaging, TMJ and sinus.

Intuitive and powerful 3D software offers tools specifically designed for dental specialties and imaging centers.

Optional software for advanced clinical applications including implant planning, airway analysis*, digital model storage and orthodontic treatment planning*.

*Work in progress – not available for sale.
# SELECTING THE RIGHT SYSTEM

<table>
<thead>
<tr>
<th>Modalities and Features</th>
<th>CS 8100</th>
<th>CS 8100SC</th>
<th>CS 8100 3D</th>
<th>CS 8100SC 3D</th>
<th>CS 9300 Select</th>
<th>CS 9300C Select</th>
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<tbody>
<tr>
<td>2D panoramic, TMJ, sinus</td>
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<td>3D fields of view size (cm)</td>
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<th>CS 8100SC 3D</th>
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</table>

* Good | Better | Best

Please note: The bullet ratings listed above are simply recommendations based on feedback from our thought leaders and users. One bullet indicates the unit meets basic requirements for the application; three bullets indicate it is the best choice.
## TECHNICAL SPECIFICATIONS

### X-Ray Generator

<table>
<thead>
<tr>
<th></th>
<th>CS 8100 / CS 8100 Access</th>
<th>CS 8100 / CS 8100 3D Access</th>
<th>CS 9300 Select / CS 9300C Select</th>
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<tbody>
<tr>
<td>Tube voltage</td>
<td>60-90 kV</td>
<td>60-90 kV</td>
<td>60-90 kV</td>
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<tr>
<td>Tube current</td>
<td>2-15 mA</td>
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<tr>
<td>Frequency</td>
<td>140 kHz</td>
<td>140 kHz</td>
<td>140 kHz</td>
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</table>

**Minimum required space**

- **Without ceph arm:**
  - CS 8100 / CS 8100 3D: 1200 (L) x 1400 (D) x 2400 (H) mm
  - CS 9300: 1500 (L) x 2000 (D) x 2400 (H) mm
- **With ceph arm:**
  - CS 8100 / CS 8100 3D: 2000 (L) x 1400 (D) x 2400 (H) mm
  - CS 9300: 2230 (L) x 2000 (D) x 2400 (H) mm

### Weight

- **Without ceph arm:**
  - CS 8100 / CS 8100 3D: 72 kg (158 lb.)
  - CS 9300: 95 kg (210 lb.)
- **With ceph arm:**
  - CS 8100 / CS 8100 3D: 95 kg (210 lb.)
  - CS 9300: 160 kg (353 lb.)

**Panoramic Modality**

- Magnification: 1.2 (± 10%) 1.2 1.22
- Radiological exam options:
  - CS 8100 / CS 8100 3D: Full panoramic, segmented panoramic, maxillary sinus, LA TMJ x 2, LA TMJ x 4, 2D+*
  - CS 9300: Full panoramic, segmented panoramic, maxillary sinus, LA TMJ x 2, LA TMJ x 4
- Exposure time:
  - CS 8100 / CS 8100 3D: 2 to 12.5 seconds
  - CS 9300: 2 to 14 seconds
  - CS 9300 Select: 4 to 16 seconds

### 3D Modality

**Volume Field Of View diameter x height (cm)**

- CS 8100 / CS 8100 3D: N/A, 4 x 4, 5 x 5, 8 x 5*, 8 x 8*, 8 x 9*
- CS 9300: 5 x 5, 8 x 8, 10 x 5*, 10 x 10*, 17 x 6*, 17 x 11*, 17 x 13.5*

**Voxel size (µm):**

- CS 8100 / CS 8100 3D: 75 µm minimum
- CS 9300: 90 to 300µ

**Exposure time:**

- CS 8100 / CS 8100 3D: 3 to 15 sec
- CS 9300: 12 – 28 seconds

**Cephalometric Modality**

- Magnification: 1.13 (± 10%) 1.13 1.15
- Radiological exams:
  - CS 8100 / CS 8100 3D: Lateral, frontal AP or PA, oblique, submento-vertex, carpus (optional)
  - CS 9300: Lateral, frontal AP or PA, oblique, submento-vertex, carpus (optional)
- Exposure time:
  - CS 8100 / CS 8100 3D: 3 to 10 seconds
  - CS 9300: 2.9 to 11 seconds

* Not available on CS 8100 Access / CS 8100SC Access.
* 8 x 9, 8 x 8 and 8 x 6 not available on CS 8100 3D Access and CS 8100SC 3D Access.
* 8 x 9 not available in Canada.
* 10 x 5, 10 x 10, 17 x 6, 17 x 11 and 17 x 13.5 not available in Ontario.
At Carestream Dental, quality is of the utmost importance. To produce reliable dental imaging systems, all of our extraoral families are designed, manufactured and quality-assured in France. Thorough production means you receive a product that meets your demands today and well into the future.

For more information, visit carestreamdental.com or call us at 800.944.6365