



## CS 8100 3D Fact Sheet

### Product Summary

The CS 8100 3D is the affordable and easy-to-use multi-function 2D/3D imaging system that makes 3D technology simple and accessible. Designed to fit the needs of large and small practices, alike—more specifically, general practitioners, endodontists and periodontists—the system combines Carestream Dental’s award-winning 2D imaging with the power of 3D. The CS 8100 3D offers high image quality at an affordable price point and covers a broad range of applications. It truly puts powerful imaging technology within everyone’s reach.

### Product Features and User Benefits

Sharp, High-Quality Images: The CS 8100 3D delivers the most accurate view of patients’ anatomy for improved diagnostic, treatment planning and surgical predictability. Users can view any anatomical situation from every angle, with 1:1 accuracy and without distortion or overlap of anatomy. Plus, “true-to-life” 3D images are easier to understand for patients, which can lead to improved communication and case acceptance. The CS 8100 3D is also capable of capturing the same digital 2D panoramic images as the award-winning CS 8100, and is further enhanced by new 4T CMOS sensor technology and image processing to produce sharp, highly detailed and contrasted images. Together, these features ensure the unit delivers consistently stunning results.

Selectable 3D Imaging: The 3D imaging of the CS 8100 3D enhances the standard of care in general practices, endodontics and periodontics, as four selectable fields of view (FOV) cover all the daily diagnostic needs of the dental office, and are ideal for task-specific diagnosis. With a maximum FOV of 8 cm x 9 cm, the CS 8100 3D answers the market demand for an 8 cm diameter volume size that can acquire full arches in a single scan, while a universal FOV of 5 cm x 5 cm covers most of the clinical needs of a general practitioner. Meanwhile, the 4 cm x 4 cm volume is a dedicated pediatric option that allows practitioners to image younger patients with a very low dose. Additionally, the EndoHD mode offers a resolution of 75µm for extremely detailed images with no additional dose to the patient above the standard 5 cm x 5 cm exam.

Effortless Positioning, Intuitive Operation: The CS 8100 3D’s laser-free design makes exams quick and simple, streamlining the examination process. Face-to-face positioning and patient support with integrated handgrips facilitate patient alignment and help patients remain stable and stationary. Motorized movement provides precise and effortless height adjustment. The smart 3D bite block of the CS 8100 3D has been redesigned to ensure precise positioning and patient comfort. Engraved with letter landmarks, it creates a perfect match between the software interface and patient anatomy, allowing the practitioner to define the area of interest chair side to avoid errors and lost time. An additional dedicated bite block also allows users to target within the 8 cm diameter FOV.

Improved Patient Comfort: The innovative patient-centric design of the CS 8100 3D helps practitioners obtain high-quality images while supporting patients. The new angle of the bite plate promotes comfort when positioning the patient in a horizontal occlusion. Additionally, the open design accommodates patients of all shapes and sizes, including those in wheelchairs. Images are captured in as little as seven seconds, reducing the period of exposure while also minimizing the risk of patient movement and need for retakes.

Safer, Faster Examinations: The CS 8100 3D features Flash Scan mode to minimize dose for follow up exams and pediatrics or smaller patients. An option for all 3D programs, this setting scans in seven seconds and reduces dose by at least 50 percent over the standard acquisition, all while minimizing patient movement to capture quality 3D images.

Innovative 3D model scanning: The special programs and protocols of the CS 8100 3D have the ability to scan patients' impressions, radiographic guides or plaster models to create high precision 3D models quickly and easily. Scan data can then be integrated into CS Solutions CAD/CAM restoration portfolio or exported in STL format to be used in third-party design software.

Comprehensive 3D Imaging Software: The CS 8100 3D system includes state-of-the-art CS 3D imaging software to complement the unit's intuitiveness. The program makes image review, implant planning, measurements and image sharing more accessible; images can be shared easily with anyone using USB flash drive, CD/DVD, email or lightweight screen capture. The software is also compatible with major third-party imaging software. Additionally, to further facilitate image sharing and collaborative work, the 3D imaging software can be shared for free without referrals or correspondences.

Ultra Compact for Easy Installation: With the same footprint and ease of integration and installation as the CS 8100, the CS 8100 3D's aluminum body, miniaturized X-ray generator and sensor make it not only lightweight but the most compact 3D unit in the industry. It is easy to handle and can be installed by one person within just a few hours.

### **About Carestream Dental**

Carestream Dental provides industry-leading imaging, CAD/CAM, software and practice management solutions for dental and oral health professionals. With more than 100 years of industry experience, Carestream Dental products are used by seven out of 10 practitioners globally and deliver more precise diagnoses, improved workflows and superior patient care. For more information or to contact a Carestream Dental representative, call 800.944.6365 or visit [www.carestreamdental.com](http://www.carestreamdental.com).

### **About Carestream Health**

Carestream is a worldwide provider of dental and medical imaging systems and IT solutions; X-ray imaging systems for non-destructive testing and advanced materials for the precision films and electronics markets. For more information about the company's broad portfolio of products, solutions and services, please contact your Carestream representative, call 888.777.2072 or visit [www.carestream.com](http://www.carestream.com).

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