

FACT SHEET



CS 3500
Intraoral Scanner

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Product Summary

The CS 3500 intraoral scanner is a truly portable, powder-free intraoral scanner that helps practitioners obtain high-quality 2D and HD 3D images. The intraoral scanner offers the latest imaging technology for digital impressions combined with industry-leading precision and an intuitive, ergonomic design. Practitioners can use the scanner as a standalone solution for restorations, orthodontics and implants or integrate it with the rest of the CS Solutions CAD/CAM restoration portfolio to scan, design, mill and place a restoration in one appointment.

Product Features and User Benefits

Sharp, High-Quality Images: The CS 3500 scans to a depth ranging from -2 to +13 mm to deliver detailed 2D and HD 3D images with an average precision of 30 μm . These images are displayed at a high resolution of 1024 x 768, which enables practitioners to easily identify margin lines, undercuts, contact points and other critical anatomical details. Clinicians are also able to distinguish the differences between natural tooth structures and existing restorations from gingival tissue. The true color 2D scans can be saved as .JPEG images to improve communication between practitioners and labs, and they also make color matching restorations easier.

Stunning HD 3D Digital Impressions: The HD 3D color feature provides enhanced 3D images in striking high definition. The level of detail offered by this latest feature of the scanner's CS Acquisition software makes case review, patient education and communication with referrals and labs easier and more effective. Vivid colors and detailed texture improve diagnosis and analysis by better reflecting the in-vivo situation. These features also aid with patient/doctor communication, as doctors can point to lifelike digital impressions when explaining a treatment plan. Additionally, full HD 3D color digital impressions give labs an incredibly realistic view of a patient's mouth, which means increased accuracy and decreased remakes. In that same vein, full HD 3D color also aids in communication with referrals.

Easy to Use: The CS 3500 features a light guidance system that minimizes the need to watch a monitor during image capture, enabling clinicians to look directly at patients' mouths, which simplifies the scanning process.

Faster Scan Times: Unlike many intraoral scanners, the CS 3500 does not require practitioners to apply reflective spray powder¹ or liquid to patients' teeth and gingival tissue prior to image acquisition. This streamlines the scanning process for practitioners, while creating a more comfortable experience for patients. The scanner also has a built-in heater that prevents the mirror from fogging during use, reducing the amount of time required for a single scan. The CS 3500 eliminates the need for conventional impressions and saves time because practitioners do not have to fill the patients' mouths with impression material, pour molds or wait for stone models to set.



Dedicated Implant Scanning Workflow: The dedicated implant workflow simplifies the acquisition process for the scanning of abutments or scan bodies by guiding users through each step. A dual scan mode allows the user to scan the same implant region of interest twice—once with the scan body in place and once without—to capture more precise data, and split screen viewing allows for side-by-side comparisons. For additional convenience, the CS 3500 is compatible with open system CAD implant planning and surgical guide software.

Digital Model Capture: A dedicated scanning workflow has been designed specifically for orthodontics, providing an intuitive and precise user interface to simplify the acquisition process for digital models or orthodontic appliances. Bite registration is virtually automatic and requires little to no manipulation of the images.

Accepted by Third Parties: Due to the high degree of precision of the CS 3500, scans are accepted by ClearCorrect™ for use in creating clear orthodontic aligner systems, as well as certified by OraMetrix Inc. and for use with its suresmile® technology. In addition, scans acquired by the CS 3500 intraoral camera are accepted by the American Board of Orthodontics (ABO).

Ergonomic Design: The lightweight (295 grams), ergonomic design of the CS 3500 makes it easy to hold and handle, giving practitioners the ability to freely maneuver the scanner, especially during full-arch acquisitions. It also offers high-angulation scanning of up to 45 degrees, making it easier to move the scanner head within patients' mouths.

Increased Mobility: The CS 3500 can easily be shared between operatories because there is no heavy trolley to push around, and it connects to any PC workstation or laptop via USB 2.0 cable².

Easy to Maintain: The CS 3500's slim scanner head also features tips that can be autoclaved and are disposable for proper hygiene and infection control. The tips are available in two different sizes—a standard tip for adults and a smaller, tapered tip for children and adults with small mouths.

Patient Comfort: A new, reusable comfort collar provides cushioning to the scanner tip, which simplifies scanning by allowing the tip to come into contact with the patient's teeth and provides additional patient comfort during anterior scanning.

Intuitive Software: The CS 3500's intuitive acquisition software offers bite registration that is virtually automatic and requires little to no manipulation of the images, enabling practitioners to transition from scanning to milling in just a few clicks. Data can easily be exported to .STL files to be emailed or uploaded to an FTP site.

Flexible, Open System: The CS 3500 can be integrated with the other components of the CS Solutions CAD/CAM restoration portfolio, which offers versatile digital impression options that provide practitioners with greater flexibility. Practitioners can capture digital impressions directly with the CS 3500 or indirectly by scanning conventional impressions with a Carestream Dental CBCT system, such as the CS 9000 3D, CS 9300 or CS 8100 3D. Image data can then be used with CS Restore software to design a restoration, which is then milled with the CS 3000 milling machine. The CS 3500 can also be used as a standalone solution in a practice's restorative workflow, and is compatible with other open system CAD software such as Dental Wings, 3Shape and exocad³. If restorations, orthodontic appliances or surgical guides are being designed and milled by a lab, data can be sent directly to the lab.

Product Awards and Recognition: The CS 3500 has been recognized several times for its design and innovation. The scanner received a bronze 2015 Edison Award in the category of Dental 3D Printers and Services by the internationally renowned Edison Awards™. Dentalcompare readership also deemed the CS 3500 the most popular scanner of 2015. Additionally, the scanner was recognized by Dentistry Today readers as one of the Top 100 Products for 2014.

¹In some situations, where the item to be scanned is uniform in dimension and highly reflective (a standard abutment), the use of an anti-reflecting liquid or powder may be necessary. Alternatively, a micro abrader (sand blaster) may be used to roughen the highly reflective surface to decrease the reflection.

²Requires 64 bit version of Windows 7.

³Dental Wings is a registered trademark of Dental Wings Inc. 3Shape is a trademark of 3Shape A/S. exocad is a trademark of exocad GmbH.



More Information

For more information about the CS 3500 and the complete CS Solutions portfolio, please visit www.carestreamdental.com/solutions. For more information on Carestream Dental's innovative solutions or to request a product demonstration, call **800.944.6365** or visit www.carestreamdental.com.

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.

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