CS 9600 FAMILY

So Smart, Yet So Simple



CS 9600

Highly intelligent and innovative, the CS 9600 delivers outstanding precision on every exam, for every user. Its customizable and scalable design provides the flexibility necessary to meet all of your clinical needs today, and to grow with your practice in the future.



A simply brilliant 5-in-1 extraoral imaging solution



OUTSTANDING IMAGES

Latest technologies and unique MAR feature delivers optimal detail and accuracy

SMART INNOVATIONS

Breakthrough innovations drive precision at every exam

FIRST-TIME-RIGHT IMAGING

Designed to deliver more accurate scans on the first capture

VERSATILE AND ADAPTABLE

Up to 14 FOV and versatile programs adapt to all needs

SCALABLE DESIGN

Scalable, 5-in-1 scanner designed to grow with your practice



One platform, three upgradable editions

WHICH CS 9600 IS RIGHT FOR YOU?



FOV 4 cm x 4cm to 12 cm x 10 cm

General Practice Implantology Periodontics Oral Surgery FOV 4 cm x 4cm to 16 cm x 10 cm

Implantology
Periodontics
Oral and Maxillofacial Surgery

FOV 4 cm x 4cm to 16 cm x 17 cm

Oral and Maxillofacial Surgery
Orthodontics
Radiology
ENT



Innovation drives precision

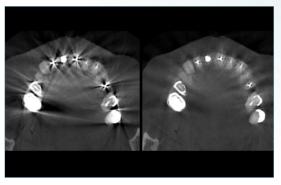
LIVE POSITIONING ASSISTANT



► SMARTPAD



CS MAR
LIVE COMPARISON FEATURE



CS FACE SCAN



▶ 120 KV OPTION



▶ INTERACTIVE ACCESSORIES





Unique Workflow Drives Precision on Every Exam



Designed for first-time-right imaging

- The CS 9600 brings a new level of automation and simplicity to CBCT imaging
- Combines three innovative technologies to produce accurate scans on the first capture
 - Live Positioning Assistant
 - SmartAuto technology*
 - SmartPad



Unique Live Positioning Assistant

- Patients are positioned using video cameras
- Live patient views are displayed on the SmartPad touch-screen for easy and exact positioning
- Eliminates need for positioning lasers
- Improves outcomes and reduces retakes



3D EXAMS



Live Positioning Assistant

PANORAMIC IMAGING

 Interactive tool allows user to properly position patient using virtual landmarks and realtime video feedback



An interactive color-coded line represents the Frankfort plane and indicates when the patient is properly positioned



As patient becomes aligned, the Frankfort plane indicator changes from Yellow to Green



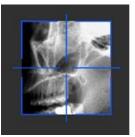
Live Positioning Assistant

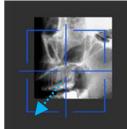
3D IMAGING

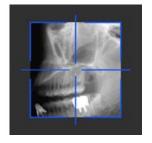
- User can visualize and adjust the FOV position virtually on the patient
- Optional scout view (very low dose) verifies the desired area is acquired, avoiding unnecessary retakes
- Scout view is an ideal solution for precise positioning of focused field of view scans



The volume is visualized on the patient's live view and its position can be adjusted via the SmartPad







If needed, the FOV position can be adjusted directly on the scout image

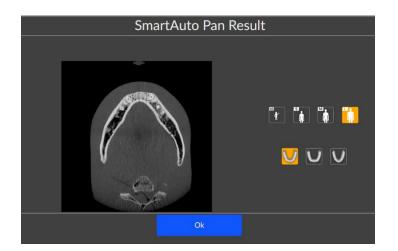


SmartAuto Technology

PANORAMIC EXAM



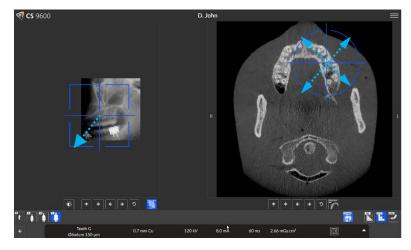
- A low dose scout view captures the patient's jaw shape and position in three dimensions
- Software automatically calculates the correct exposure settings and trajectory
- The result: consistent high-quality panoramic images for all users



CBCT EXAM



- Enables users to precisely define the field-of-view position on a low dose scout view, virtually eliminating the risk of incorrect positioning
- Software automatically calculates the correct exposure settings according to the patient's morphology





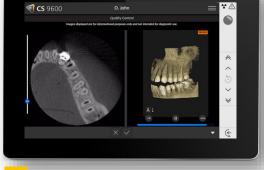
Intuitive SmartPad

WORK MORE EFFECTIVELY WITH SMARTPAD

- Modern, high-resolution touchscreen
- User friendly interface simplifies exam setup, patient positioning and image quality control







2 PATIENT POSITIONING

3 IMAGE QUALITY CONTROL



Work more effectively with SmartPad

1. EXAM SETUP

- Clear user interface guides the operator through the exam
- All parameters are available on one screen
- Pre-set programs minimize setup time and risk of errors





COLUMN AND CAMERA

- 1 MODALITY SELECTION
- REGION OF INTEREST SELECTION
 - ON CONTROL

- 2 PROGRAM SELECTION
- 4 SCANNING OPTIONS



Work more effectively with SmartPad

2. PATIENT POSITIONING

- User interface is mirrored on the SmartPad and your computer to fit your workflow
- Manage the entire exam workflow from the SmartPad and get more face time with your patient
- Quality control tools enable user to immediately verify the image on the SmartPad or acquisition computer





SMARTPAD

ACQUISITION COMPUTER



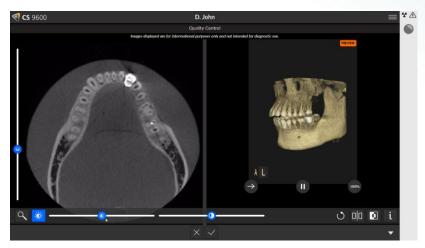
Work more effectively with SmartPad

3. QUALITY CONTROL

- Check images immediately after acquisition on the SmartPad or acquisition computer
- Reason for rejection is recorded and saved for every image



PANORAMIC EXAMS: Adjust brightness/contrast, CS Adapt filters, zoom, reverse Right/Left



3D EXAMS: Browse axial slices, preview the 3D rendering to verify if the targeted anatomy is properly captured



Repeatable procedures with a single touch

PATIENT HISTORY RECORD

- Parameters for each patient exam are automatically recorded
- With the touch of a button, user can recall the parameters for the patient's next exam
- Streamlined workflow for repeatable procedures
- Consistent and comparable images for follow-up exams





REUSE PARAMETERS AND COLUMN HEIGHT OF THE PREVIOUS EXAM



Smart accessories, real changes

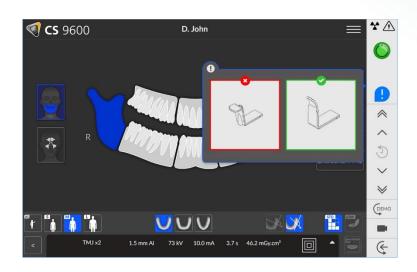
INTERACTIVE POSITIONING ACCESSORIES

- The CS 9600 detects and visually indicates if the wrong accessory is inserted for the selected procedure and recommends the appropriate one
- Significantly reduces risk of positioning mistakes and unnecessary retakes





RED LIGHT: WRONG ACCESSORY IS INSERTED
GREEN LIGHT: CORRECT ACCESSORY IS INSERTED



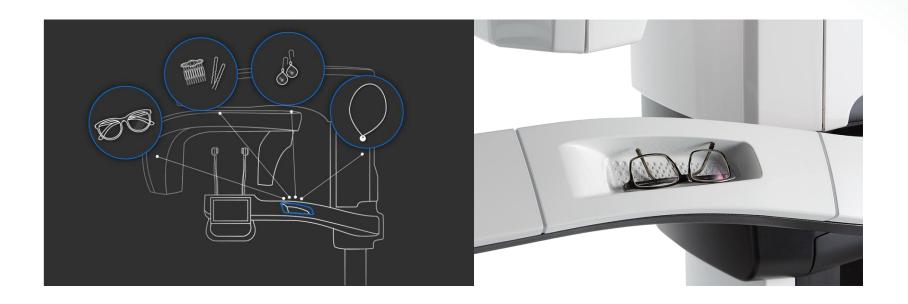
AUTOMATICALLY RECOMMENDS
THE APPROPRIATE ACCESSORY TO USE



Smart accessories, real changes

JEWELRY TRAY

 A dedicated tray for patient jewelry and glasses reduces the risk that they are forgotten during or after the examination





Versatile Imaging Drives Precision in All Fields



Do more in your practice

VERSATILE MULTIFUNCTIONAL SYSTEM



CBCT IMAGING



PANORAMIC IMAGING



CEPHALOMETRIC IMAGING*



3D FACIAL SCANNING*



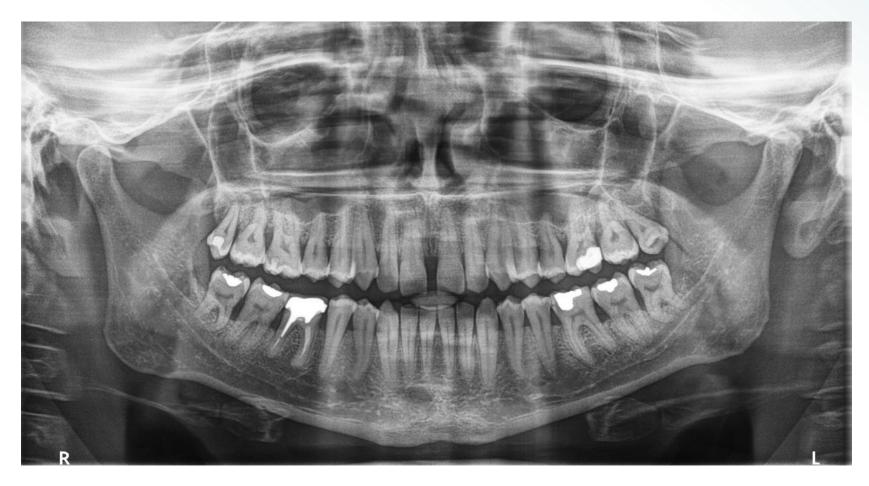
CBCT OBJECT SCANNING*



^{*} Work-in-progress, not available for sale

State of the art 2D imaging

The CS 9600 generates superb panoramic images in a few seconds and covers all routine diagnostic needs

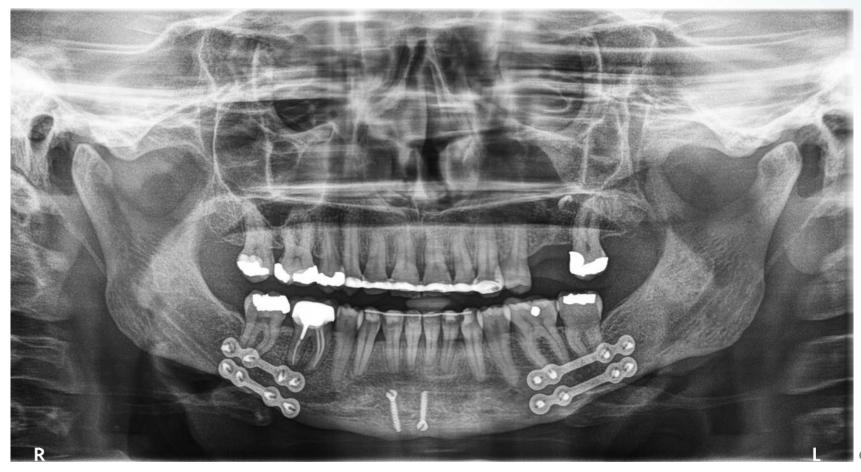




Clinical Results

Low dose 2D panoramic program available ideal for pediatric or follow-up exams







State of the art 2D imaging



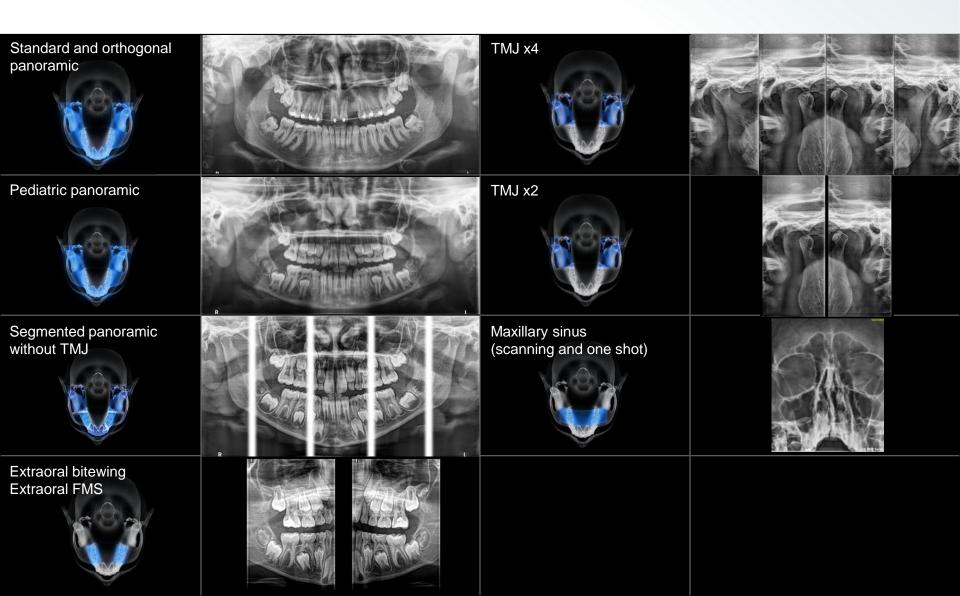
EXTRAORAL FMS

- Automatically generates full mouth series (FMS) images from a 2D panoramic image in less than a minute
- Uses a specific trajectory to reduce teeth overlap
- Ideal solution when an intraoral X-ray cannot be performed
- Takes less time than traditional FMS
- Improves patient comfort





State of the art 2D imaging



Flexible fields of view for every need

► 12X10 / 16X10 / 16X17 EDITIONS



TOOTH / TEETH

4 cm x 4 cm, 5 cm x 5 cm, 6 cm x 6 cm Voxel size: 75µm, 150µm, 300µm



TOOTH / TEETH

5 cm x 8 cm

Voxel size: 75µm, 150µm, 300µm



SINGLE JAW

8 cm x 5 cm, 10 cm x 5 cm Voxel size: 75µm, 150µm, 300µm

12 cm x 5 cm

Voxel size: 150µm, 300µm, 400µm



DUAL JAW

8 cm x 8 cm, 10 cm x 10 cm Voxel size: 75µm, 150µm, 300µm



DUAL JAW

12 cm x 10 cm

Voxel size: 150µm, 300µm, 400µm

► 16X10 / 16X17 EDITIONS



DUAL TMJ

16 cm x 6 cm

Voxel size: 150µm, 300µm, 400µm



MAXILLOFACIAL / SINUS

16 cm x 10 cm

Voxel size: 150µm, 300µm, 400µm

► 16X17 EDITION



MAXILLOFACIAL / SINUS

16 cm x 12 cm

Voxel size: 150µm, 300µm, 400µm



MAXILLOFACIAL / SINUS

16 cm x 17 cm

Voxel size: 150µm, 300µm, 400µm



Selectable resolution adapts to clinical needs



HR MODE

- Voxel size 75 μm or 150 μm
- The highest detailed images, ideal for endodontics and any case requiring the highest resolution possible
- 75μ resolution available on all FOV ranging from 4 cm x 4 cm to 10 cm x 10 cm
- 150 µm resolution available on all FOV up to 16 cm x 17 cm



STANDARD RESOLUTION MODE

- Voxel size 150 μm or 300 μm
- For most indications requiring high quality images and shorter exposure times

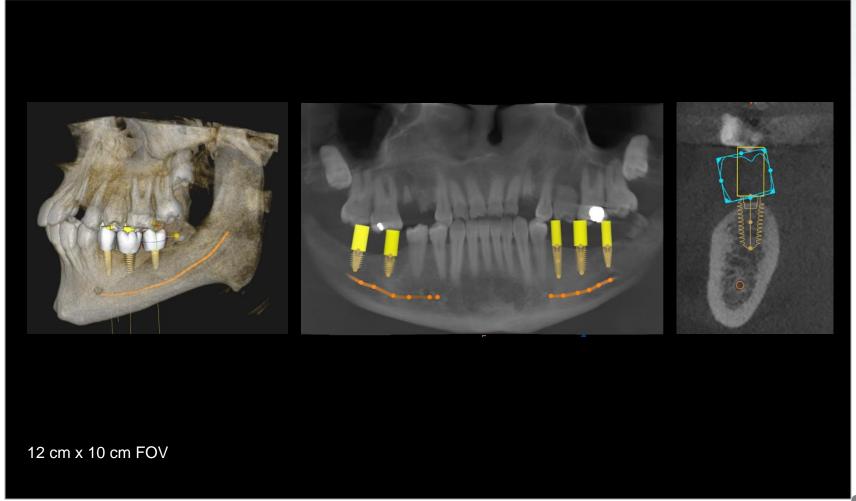


LOW DOSE MODE

- Voxel size 300 μm or 400 μm
- The lowest effective dose
- For sensitive cases requiring low dose, such as pediatric or follow up examinations

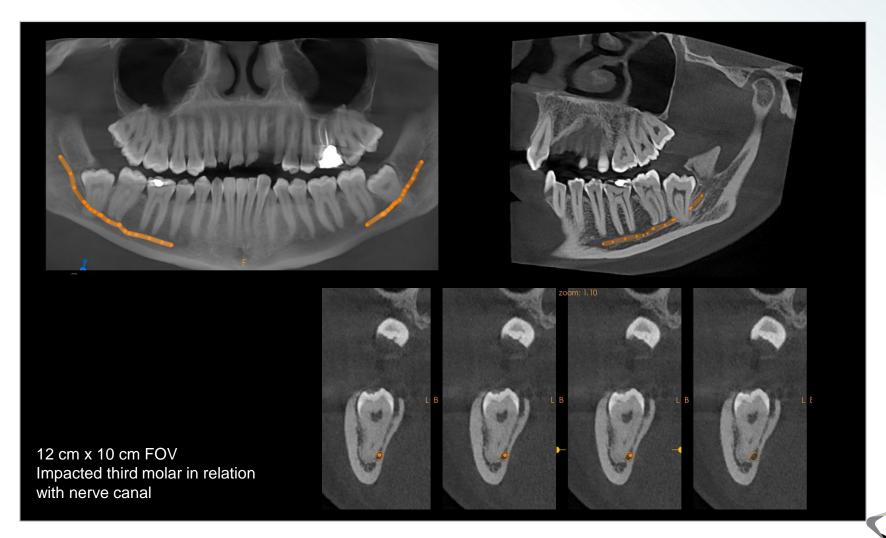


Implant planning

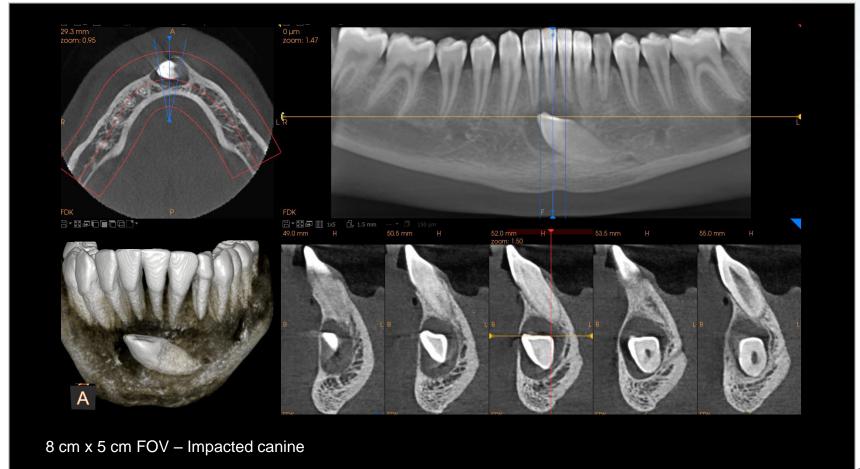




Oral surgery

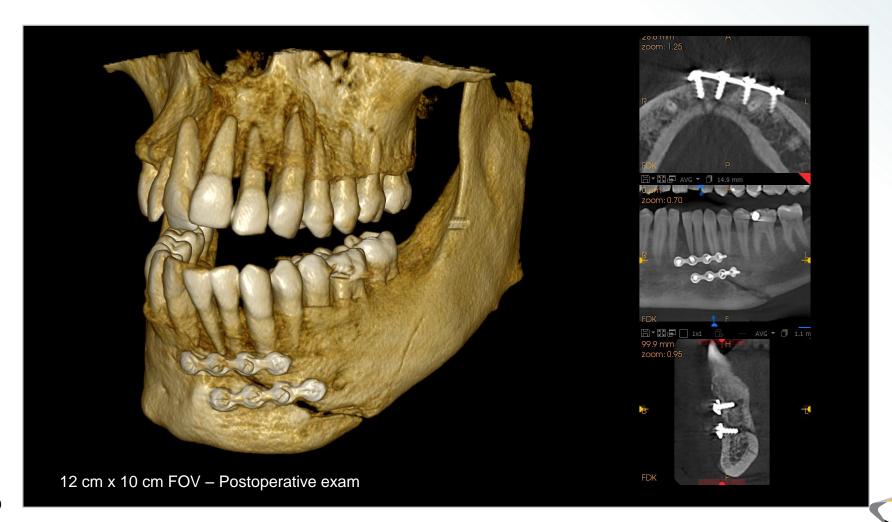


Oral surgery

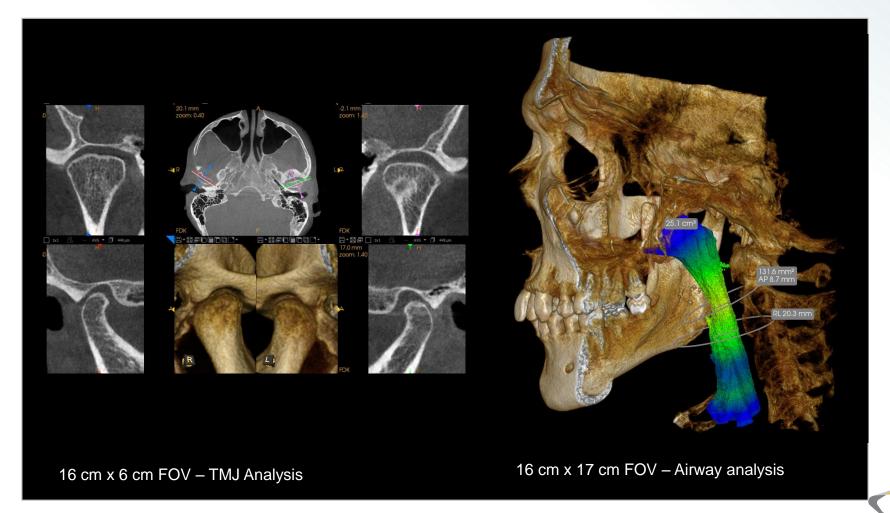




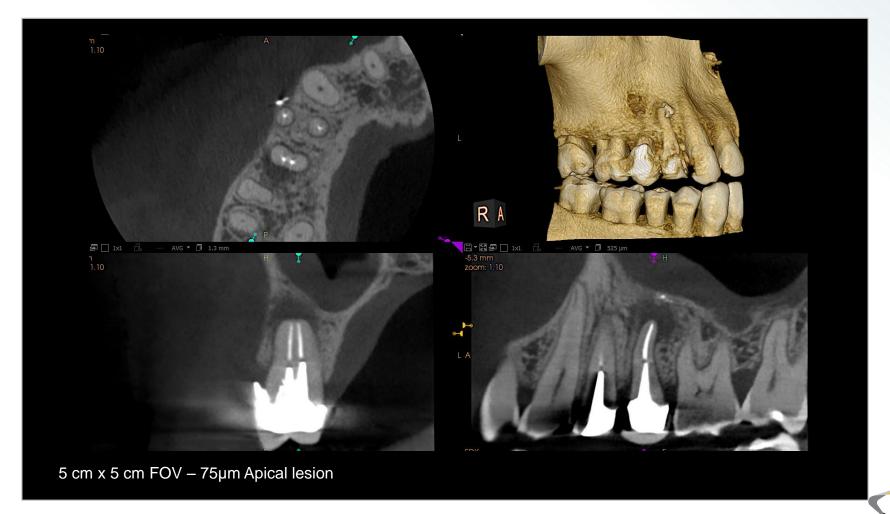
Maxillofacial surgery



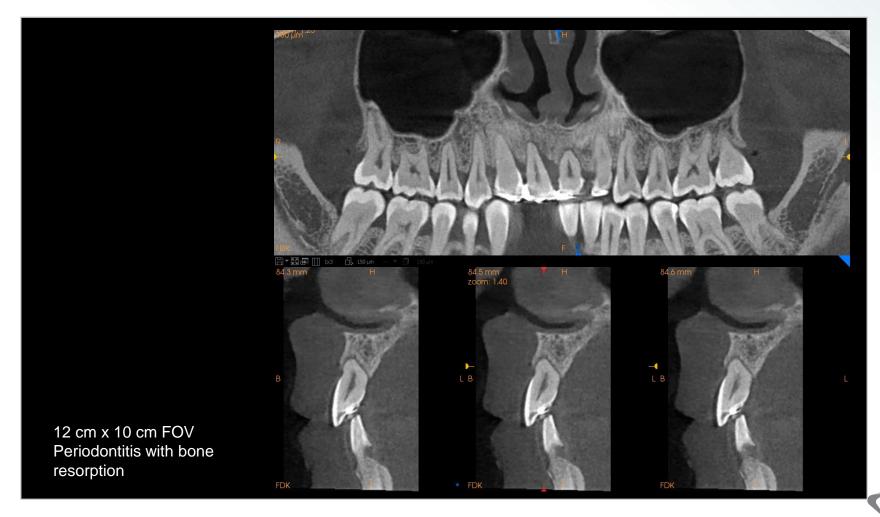
TMJ and Airway Analysis



Endodontics



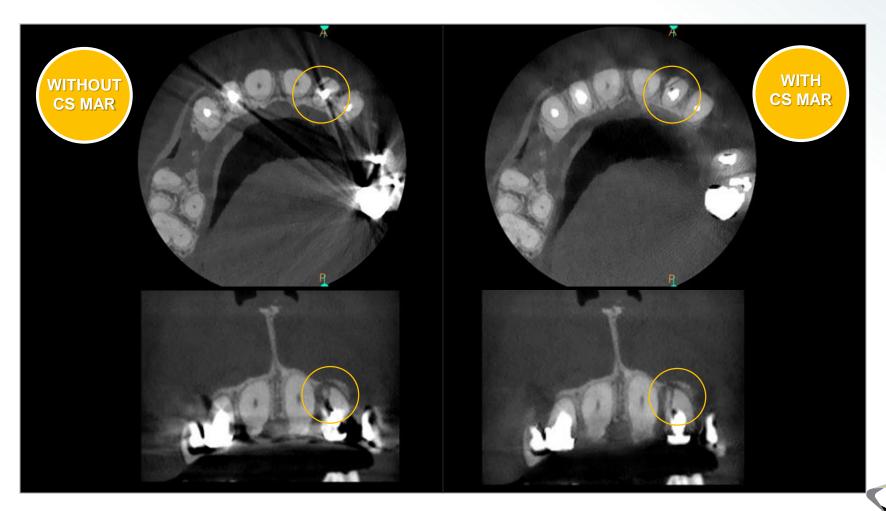
Periodontics



Exclusive Metal Artifact Reduction technology



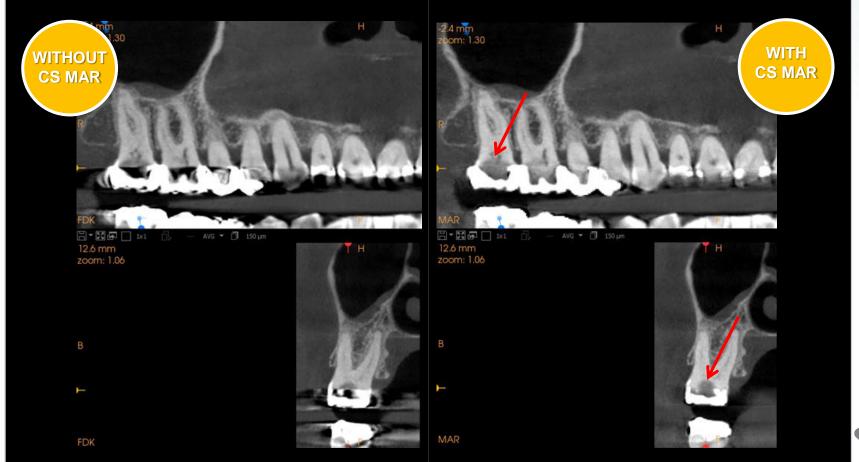
Carestream Dental's high-end MAR algorithm effectively reduces metal artifacts



CS MAR



- Enables live comparison of images with and without MAR filter
- Helps confirm diagnoses and reduces risk of misinterpretation





CS MAR



- Enables live comparison of images with and without MAR filter
- Helps confirm diagnoses and reduces risk of misinterpretation





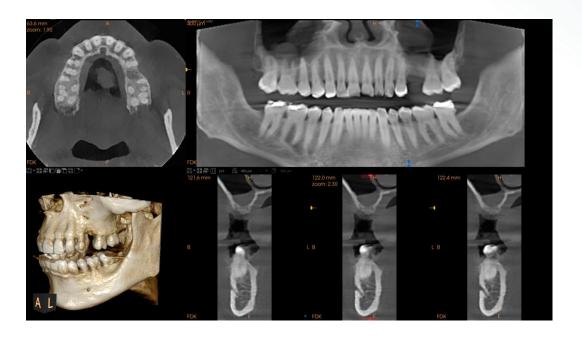
3D images at a lower dose than 2D panoramic

LOW DOSE IMAGING

- Delivers 3D images at a significantly lower dose than 2D panoramic imaging
- Can be used for all 3D FOVs and resolutions

Covers multiple applications:

- Implant planning
- Follow-up exams
- Pediatric examinations
- Analysis of skeletal symmetry
- Impactions/supernumerary evaluations



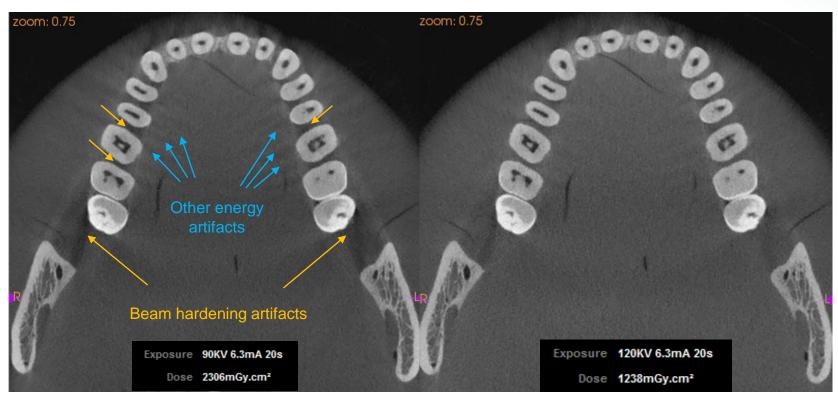


Optimized image quality and dose



120 kV HIGH POWER TUBE

- Compared to 90 kV:
 - Increases image quality at similar dose
 - Or obtain similar image quality at lower dose
- Reduces artifacts, enhances image quality

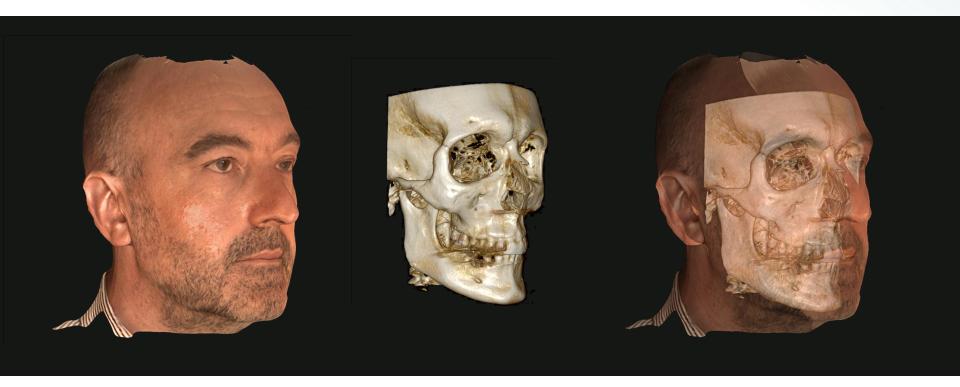




CS Face Scan



- Captures realistic 3D facial photos
- Automatically superimposes the surface scan with CBCT images and 3D models
- Helps patient better understand the proposed treatment plan





CS Face Scan

- Can be performed when conducting the CBCT scan, or at any other time
- Dedicated support eliminates any interference with patient's face
- Large scanning area delivers full face photos including chin and ears

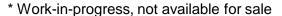




CS Solutions Ready

- Scan patient's impression, plaster cast or radiographic guide*
- User-friendly interface and scanning platform
- Cost-effective solution for both impression scanning and radiographic examinations







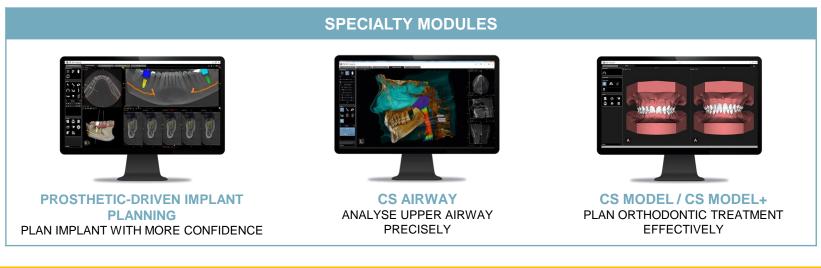
p.41

Engaging treatment plans improves case acceptance

YOUR COMPLETE DIGITAL WORKFLOW

Our scanning solutions and add-on software are designed to address your specific needs







Get the most from every image

CS 3D IMAGING SOFTWARE

- Probably the most user-friendly 3D imaging software available
- Provides you all the tools to assist you in:
 - Implant planning
 - Surgical guide
 - Surgical procedures
 - Endodontics
 - Airway analysis
- Integrated implant library including more than
 70 international implant manufacturers
- Complete set of tools for viewing, processing and annotating CBCT volumes





Improving communication and collaboration



PERSUASIVE IMAGES

Stunning 3D views enhance patient education and communication



IMAGE VIEWER

3D 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

DICOM files are compatible with leading third party software (NobelGuide, SimPlant,...)



COPY/PASTE

Images can be copied and pasted directly into documents (Word doc, PowerPoint, etc.)



SHARE

Easily share data using USB flash drive, CD/DVD, email or lightweight screen capture



One stop-access to all your images

CS Imaging Version 8 gives you access to all of your digital images and CAD/CAM data

INTRAORAL RVG 5200 / RVG 6200 CS 7200 / CS 7600



EXTRAORAL CS 8100 CS 8100SC



CBCT
CS 8100 3D
CS 8100SC 3D
CS 9300
CS 9600





CS IMAGING VERSION 8



CS 3D IMAGING
PROSTHETIC DRIVEN
IMPLANT PLANNING
CS AIRWAY
CS FACE SCAN



IMPRESSION CS 3600 CS MESH VIEWER



DIGITAL MODEL
CS MODEL
CS MODEL+



Smarter Design Drives Precision For Any Patient



Comfortable scanning experience

- Open design with face-to-face positioning
- Easily adjustable for all patients
- Standing or sitting patients
- · Wheelchair accessible







Exclusive integrated seat*

- First unit with an integrated retractable seat
- Ensure patient comfort and stability
- Ideal for examinations requiring higher stability or for challenging patient
- Can be rotated 180° when not in use or to accommodate patient in wheelchair







CS ADVANTAGE FOR CS 9600

Stay tuned and covered. Enroll in CS Advantage. Get the extended warranty coverage, software updates, training and support you need to ensure the best possible experience with your equipment purchase. It's easy with our CS Advantage plan. Contact your Carestream Dental representative for more information.



CS Advantage

CS 9600 Service Offering

CONSISTENT, SIMPLE, HARMONIOUS AND GLOBAL



CS Advantage

The comprehensive global support offering that provides all three service pillars.



Services are organized into pillars that best fit the needs of the doctor and practice

CS Protect

A warranty extension service to ensure peace of mind

ALL PARTS

CS Update

An update service to ensure practice efficiency while staying up-to-date with latest software advancements

CS Support

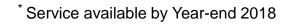
Training and support service for continuing education and ongoing support to facilitate the best possible experience for end users

CS UpStream*: Advanced monitoring services











50

The advantages of CS Advantage

Category	Offerings	CS ADVANTAGE
CS Protect	Warranty extension on All Parts	✓
CS Update	Software updates, including other software related to the CS 9600's options	✓
CS Support	Live telephone support	✓*
	Remote technical support	✓*
	Remote clinical application support	✓*
	Premium training on Carestream Dental Institute	✓
	CS UpStream**	✓ optional



^{*} Not available in all countries

^{**} CS UpStream available from 2018 Year-end

Taking service and support to a whole new level

CS UPSTREAM OPTION

- Innovative, 24/7 advanced monitoring service for your equipment
- Allows our service experts to track in real time the historical behavior of your equipment
- Enables you to increase productivity, maximize efficiency and stay focus on your patients



BENEFITS

- Leads to faster, more responsive service
- · Accelerates trouble shooting
- · Enables proactive support
- · Saves iterative onsite visits
- Reduces equipment downtime





Configurations and Options



Configurations and options







Unit Type	12x10 Edition	16x10 Edition	16x17 Edition
Max FOV (Dxh)	12x10	16x10	16x17
FOV available	4x4-5x5-6x6-8x5-5x8-8x8 10x5-10x10-12x5-12x10	4x4-5x5-6x6-8x5-5x8-8x8 10x5-10x10-12x5-12x10 16x6-16x10	4x4-5x5-6x6-8x5-5x8-8x8 10x5-10x10-12x5-12x10 16x6-16x10-16x12-16x17
2D panoramic, sinus	•	•	•
CBCT imaging	•	•	•
CBCT object scanning*	•	•	•
Low Dose (2D / 3D)	•	•	•
Live Positioning Assistant (2D / 3D)	•	•	•
Ceph ready	•	•	•
Options			
CS SmartAuto Package	0	0	0
CS MAR (Metal Artifact Reduction)	0	0	0
Extraoral FMS	0	0	0
120 kV (3D imaging)	0	0	0
CS Face Scan*	0	0	0
Integrated seat	0	0	0
Advanced Radiology feature*	0	0	0

^{*} Estimated availability Q4 2018

Comparison between our 3D systems

	CS 8100 3D	CS 9300 Select	NEW CS 9600	NEW CS 9600	CS 9600
Fields Of View	4x4, 5x5, 8x5, 8x9	CS 9300 5x5 , 8x8, 10x5, 10x10, 17x6, 17x11, 17x13.5	12x10 Edition 4x4, 5x5, 6x6, 8x5, 5x8, 8x8, 10x5, 10x10, 12x5,12x10	16x10 Edition 4x4, 5x5, 6x6, 8x5, 5x8, 8x8, 10x5, 10x10, 12x5,12x10, 16x6, 16x10	16x17 Edition 4x4, 5x5, 6x6, 8x5, 5x8, 8x8, 10x5, 10x10, 12x5,12x10, 16x6, 16x10, 16x12, 16x17
Panoramic Modality	✓	✓	✓	✓	✓
Cephalometric Modality	Optional	Optional	Ceph Ready*	Ceph Ready*	Ceph Ready*

^{*} Cephalometric option: estimated availability 2019



Technical specifications

Tube voltage	60 - 90 kV / 60 – 120 kV (optional)		
Tube current	2 - 15 mA		
Frequency	140 kHz		
Tube focal spot	0.3 or 0.7 mm		
Total filtration	> 2.5 mm eq. Al		
Input voltage (AC)	100 - 240 V 50/60 Hz		
Minimum required space	1500 (L) x 2000 (D) x 2200 (H) mm (without seat or when seat is installed on the left) 1900 (L) x 2000 (D) x 2200 (H) mm (when seat is installed on the right)		
Weight	210 kg		
	Panoramic Modality	3D Modality	
Sensor technology	CMOS	CMOS	
Image field	6.4 x 140 mm (for adult patient size) 6.4 x 120 mm (for child patient size) 120 x 140 mm (for sinus one-shot exam)	Field of View (cm): 4 x 4, 5 x 5, 5 x 8, 6 x 6, 8 x 5, 8 x 8, 10 x 5, 10 x 10*, 12 x 5, 12 x 10*, 16 x 6, 16 x 10*, 16 x 12, 16 x 17 * with tip of the volume	
Gray scale	16384 - 14 bits	16384 - 14 bits	
Magnification	1.28	1.4	
Radiological exam options	Full panoramic, segmented panoramic, bitewing, maxillary sinus, LA TMJ x 2, LA TMJ x 4, sinus AP / PA / Lateral, orthodontic panoramic	Tooth / Teeth, Full, upper or lower jaw, TMJ, Face, ENT, Upper cervical spine, Wrist	
Exposure mode	4 patient sizes (Child. Adult: small, medium, large) 3 dental arch morphology (normal, square, sharp)	HR, Standard, Low Dose	



Dimensions

