



CS 8200 3D Family

SEE MORE. DO MORE.
RIGHT IN YOUR PRACTICE

January 12, 2021

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NEW
12 x 10 CM
FOV

A high-performance CBCT system for practices who want to expand their treatment capabilities, without increasing their footprint.

Extended Capabilities in a Small Package

FULL ARCH CBCT SCANS

Extended field of view up to 12 cm x 10 cm—best for full arch scans

VERSATILE 2D/3D SYSTEM

Versatile 4-in-1 system ideal for expanding treatment capabilities

ARTIFACT-FREE, HIGH RESOLUTION IMAGES

High-resolution 3D images with limited artifacts and noise

OUTSTANDING IMAGE QUALITY

Outstanding 2D/3D images thanks to the latest premium technology

ULTRA-COMPACT DESIGN

Ideal for practices that want to expand their capabilities without expanding their footprint

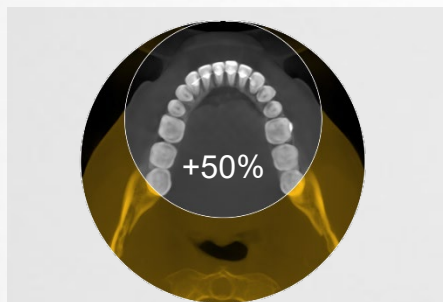
POWERED WITH CS IMAGING VERSION 8

Provides you with one-stop access to all your images and CAD/CAM data

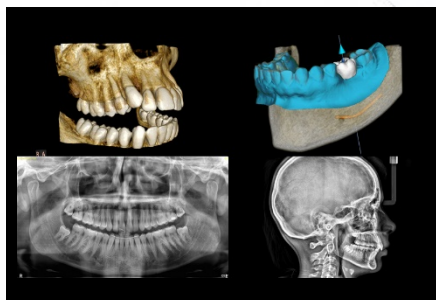


CS 8200 3D

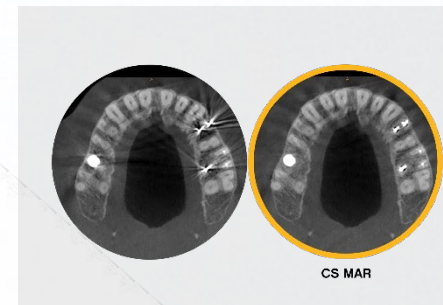
KEY FEATURES



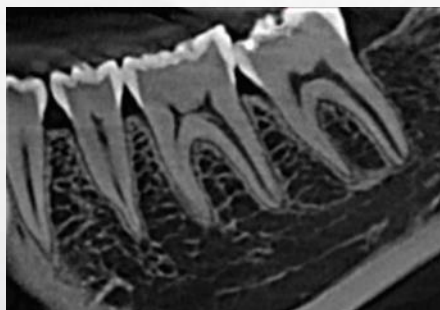
Extended field of view



Multi-functional system



Reduced metal artifacts



High-resolution, noise-free images



Crystal-clear panoramic images



Ultra compact size

Realize the Benefits of 3D Imaging

Benefits for You and Your Patients



Expert diagnosis

General practitioners can now also diagnose faster and with greater confidence.



Greater Capabilities

CBCT is ideal to expand your implant activity and can be used for other procedures.



Fast Appointments

In-house 3D exams reduce the number of patient visits and treatment time.



Predictable Outcomes

Patients receive more predictable treatment outcomes.



Stronger Trust

With clear 3D images, it's easier for patients to understand and accept their treatment plan.



Quick Payoff

One system for all your routine 2D examinations while adding 3D imaging to your services.

Multi-function X-ray System

ONE SYSTEM. FOUR TECHNOLOGIES. MORE POSSIBILITIES.



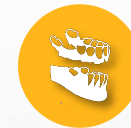
Pan and ceph imaging

2D

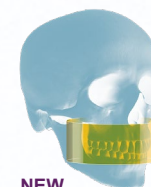
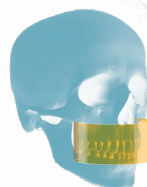
CBCT imaging

3D

CAD/CAM



Selectable Fields of View



FOV sizes (cm)	4 cm x 4 cm Pediatric mode	5 cm x 5 cm	8 cm x 5 cm	8 cm x 9 cm	12 cm x 5 cm	12 cm x 10 cm
Voxel size (microns)	75-150-300-400	75-150-300-400	150-300-400	150-300-400	150-300-400	150-300-400
Scanning time	15 sec. Fast scan 7 sec. Low dose 3,2 sec.	15 sec. Fast scan 7 sec. Low dose 3,2 sec.	15 sec. Fast scan 7 sec. Low dose 3,2 sec.	15 sec. Fast scan 7 sec. Low dose 3,2 sec.	20 sec. Fast scan 14 sec. Low dose 6,2 sec.	20 sec. Fast scan 14 sec. Low dose 6,2 sec.

Extended Field of View

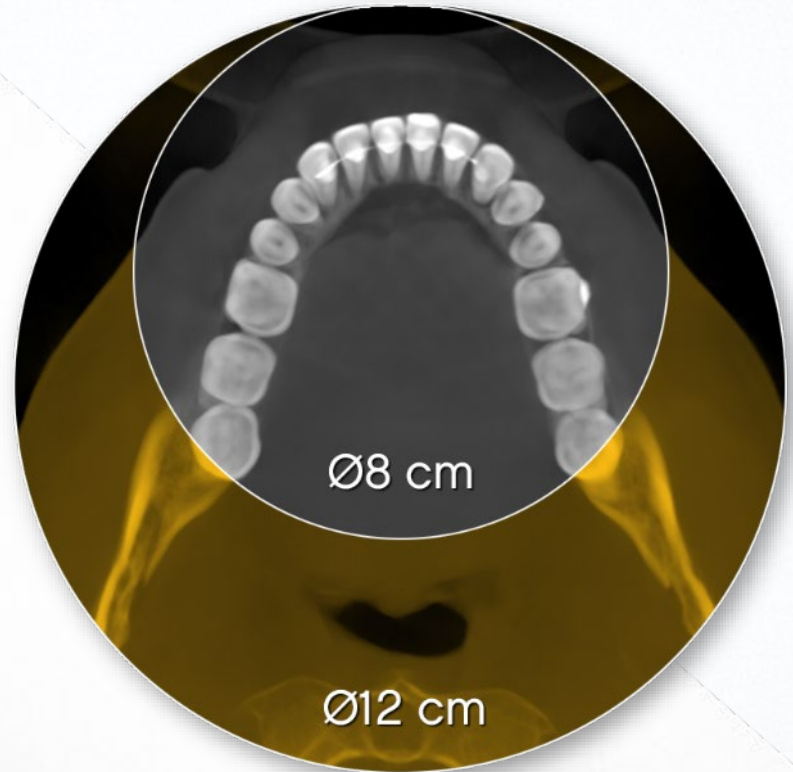
IDEAL FOR FULL ARCH SCANS

- Two additional fields of view:
 - 12 cm x 5 cm for single arch scan
 - 12 cm x 10 cm for dual arch scan



Extended Field of View

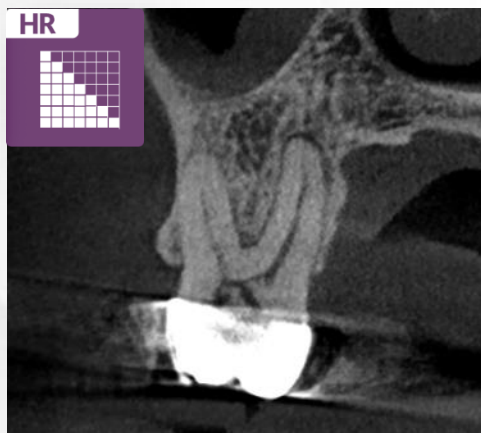
- Optimal for single and dual arches scan including third-molars
- Single scan with no stitching
- Avoid taking multiple scans and unnecessary patient exposures
- Ideal for multiple implant surgeries, surgical guide fabrication, third-molar assessment



**50% larger than 8 cm
diameter volume**

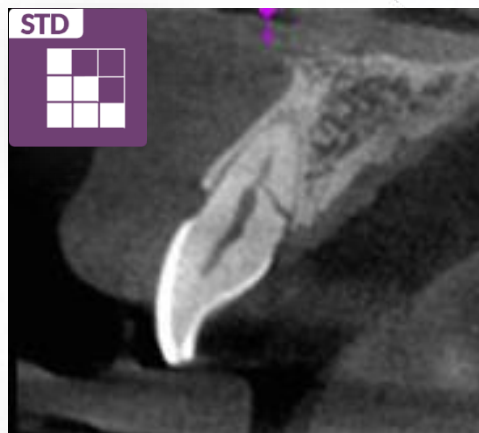
Selectable Resolution

ADAPTS TO EVERY CLINICAL NEEDS



ENDO HD MODE

- Voxel size 75 μm
- Ideal for endodontics and any case requiring the highest resolution possible
- Available on 4 cm x 4 cm and 5 cm x 5 cm FOV



STANDARD RESOLUTION MODE

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



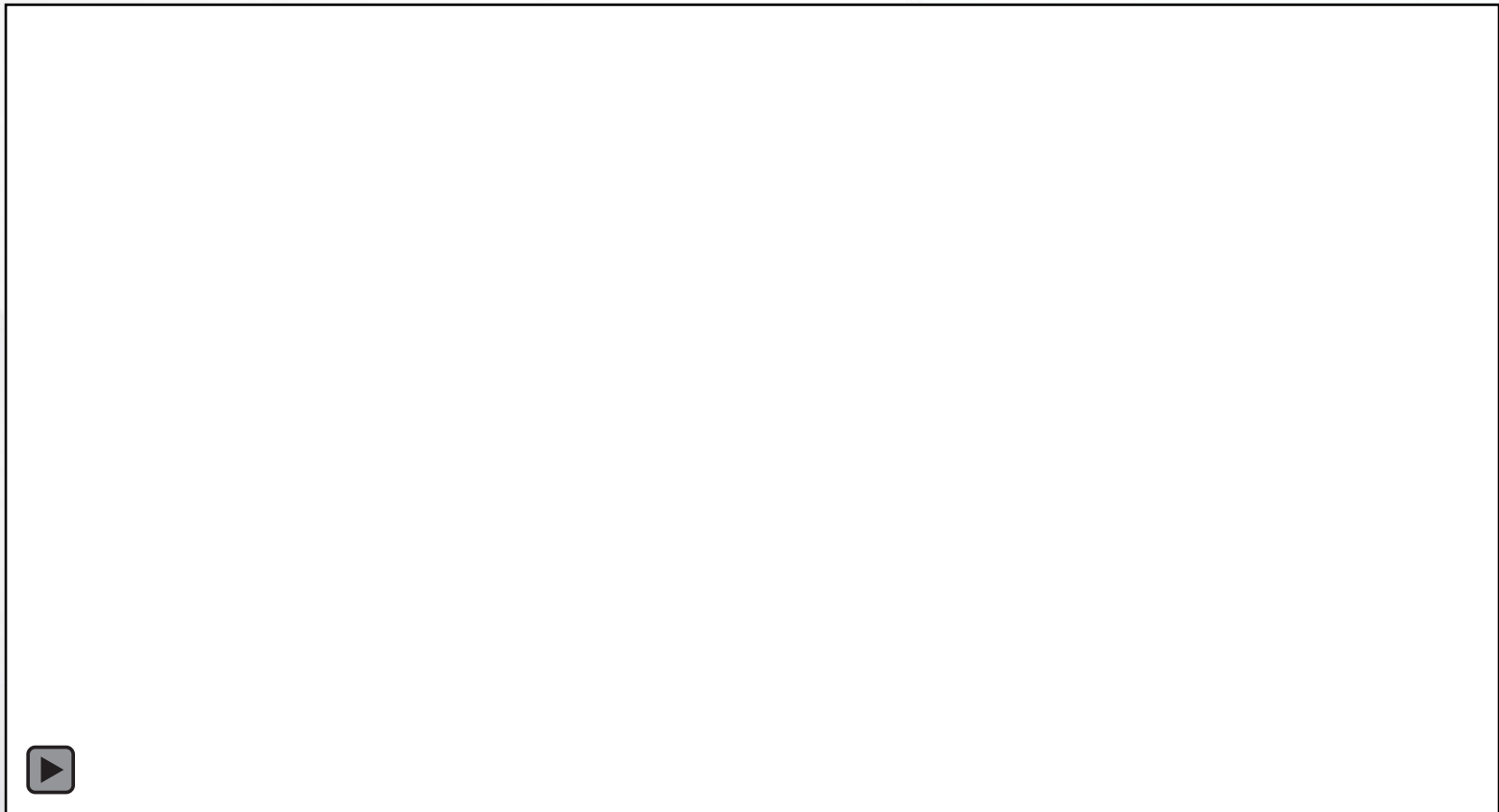
LOW DOSE MODE

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

CS MAR

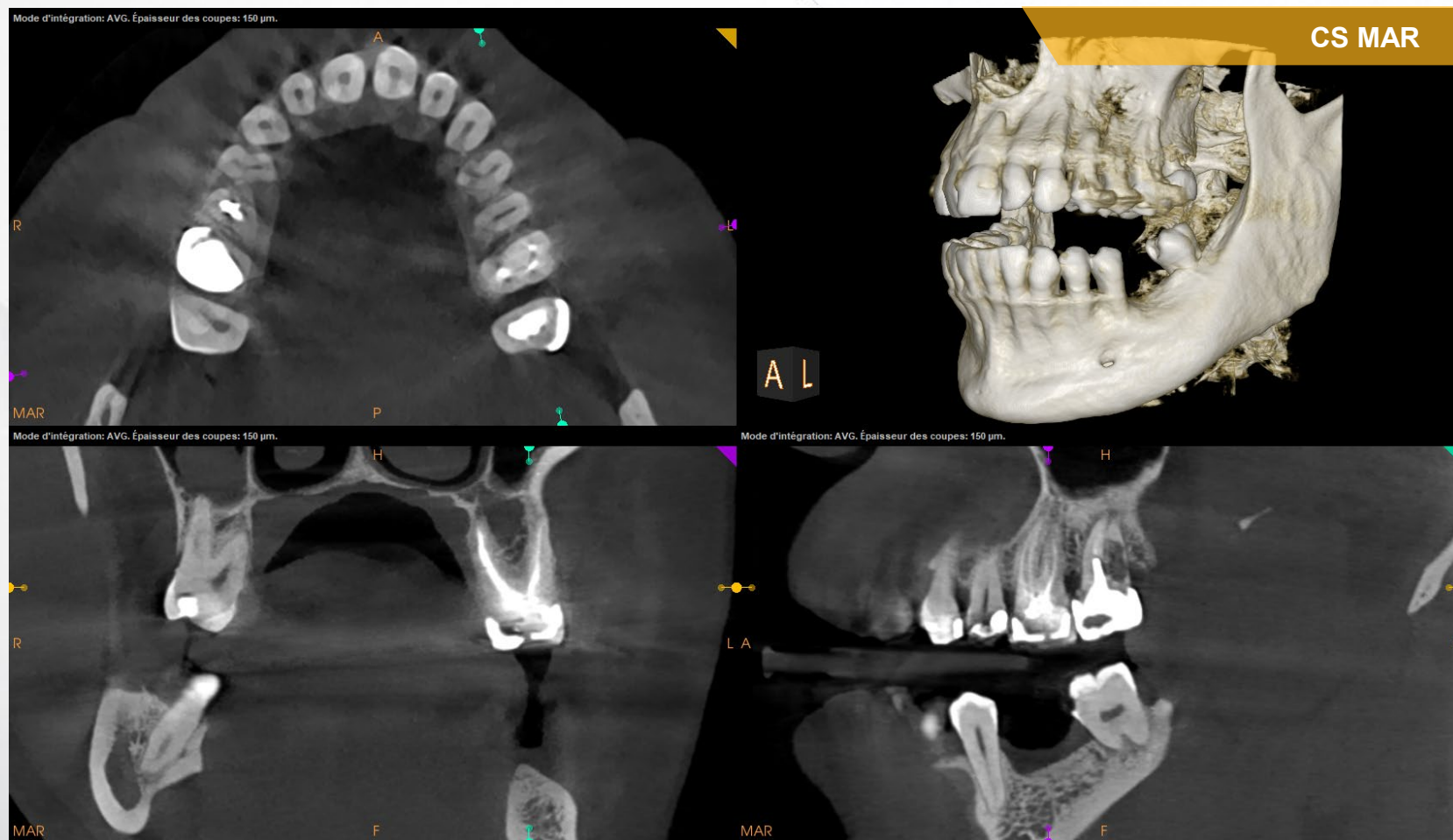
LICENSED
OPTION

FEATURING UNIQUE LIVE COMPARISON TOOL



CS MAR

LICENSED
OPTION



CS MAR

LICENSED
OPTION

FEATURING UNIQUE LIVE COMPARISON TOOL

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



Advanced Noise Reduction (ANR)

- Advanced algorithm that reduces noise while preserving image details
 - Improves perception of cortical bone edge, ligament space, soft tissues and small details (ie. lateral canal, crack...)
 - Ideal for 75 microns resolution scan

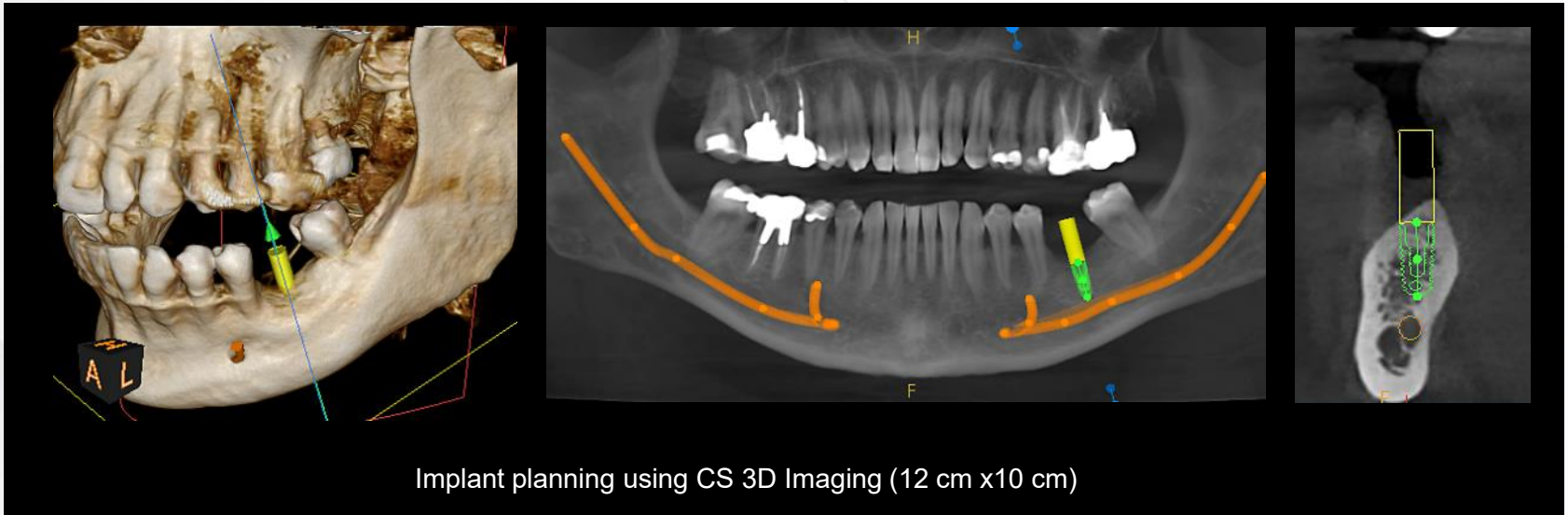


WITHOUT ANR

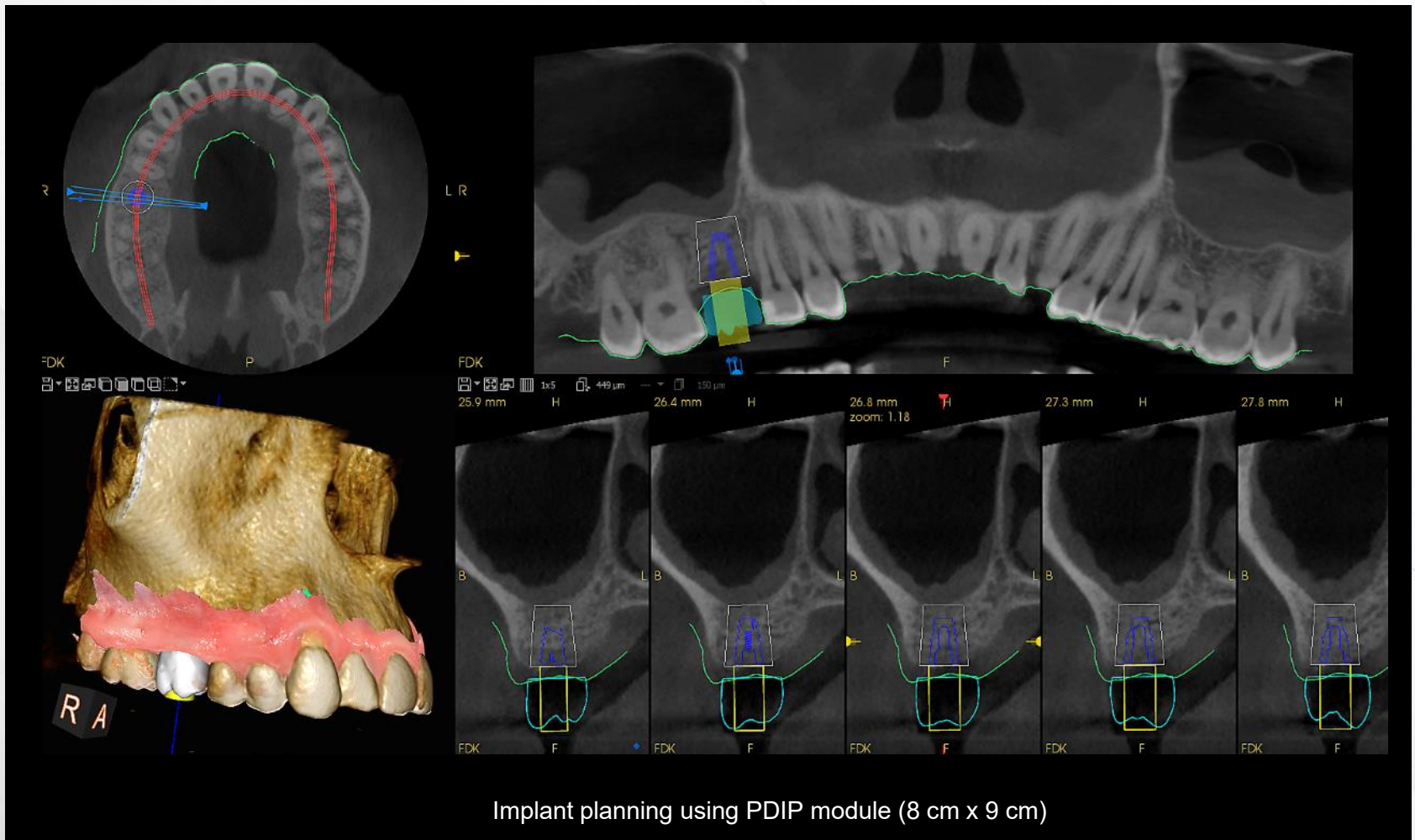


WITH ANR

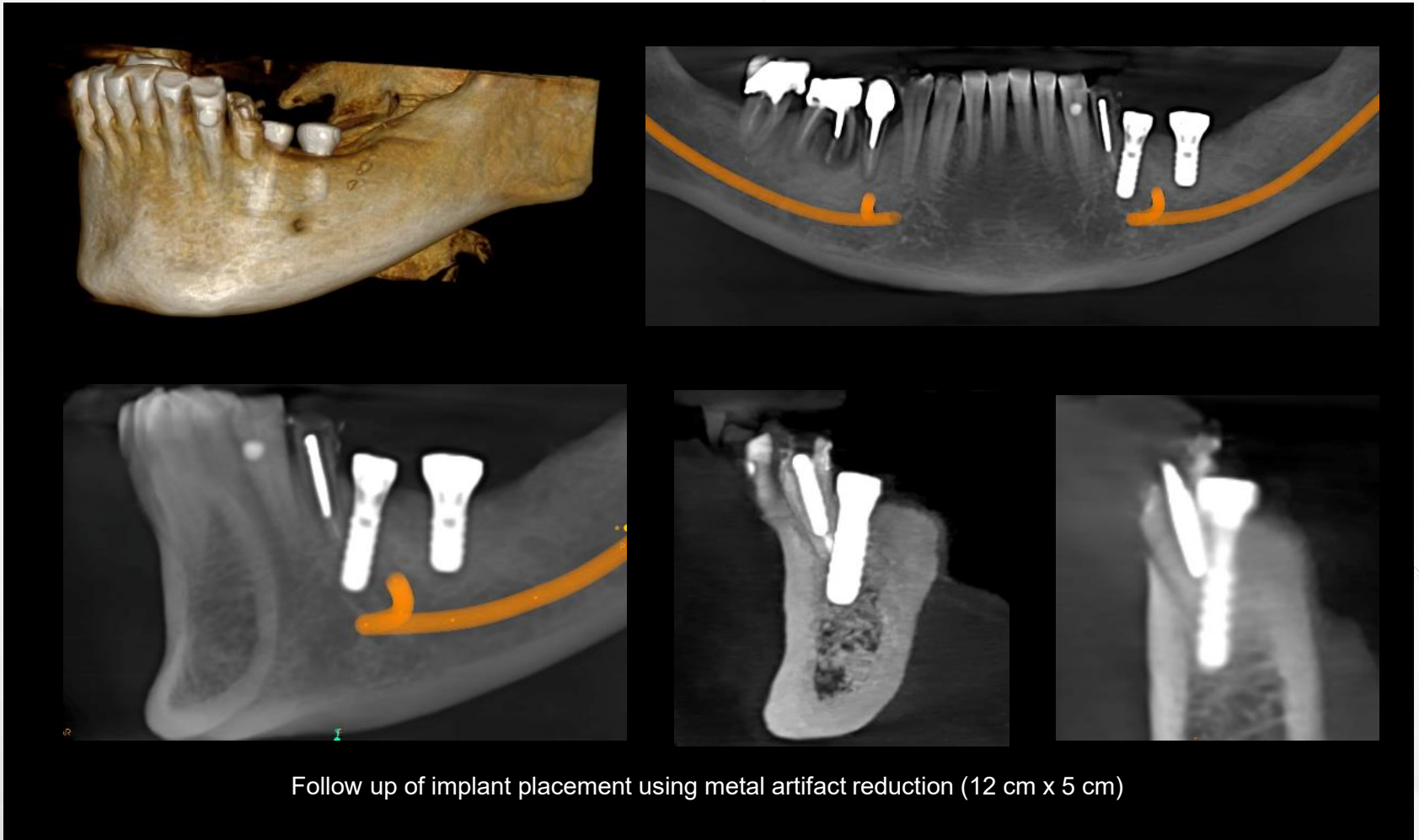
Implants



Implants

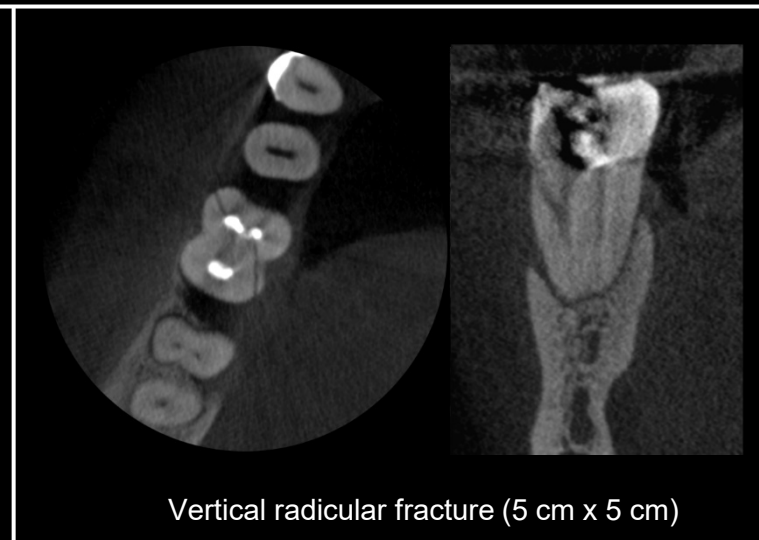
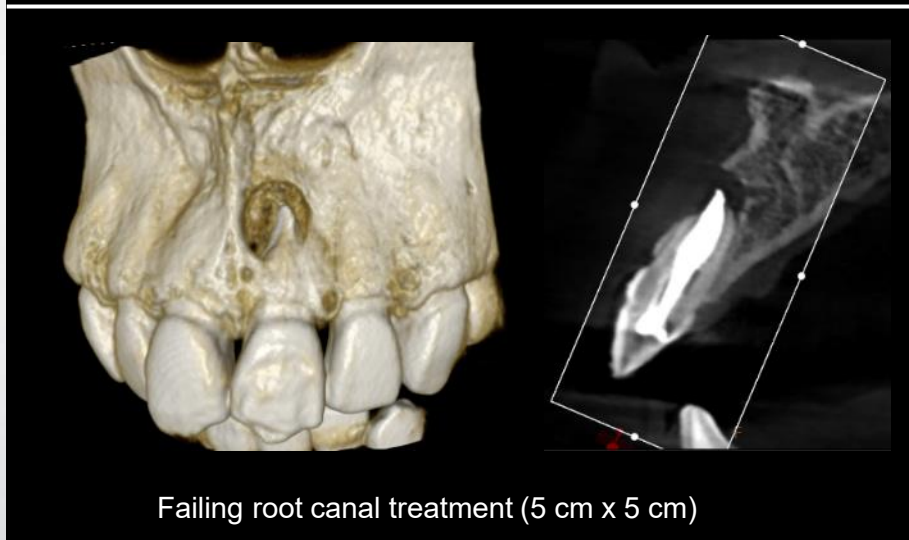
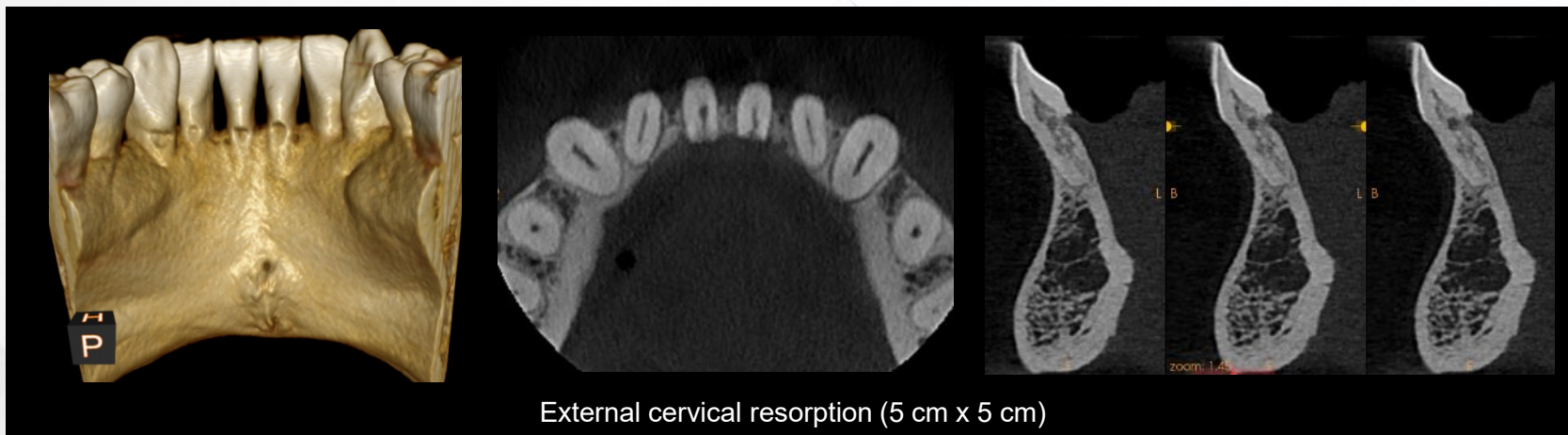


Implants

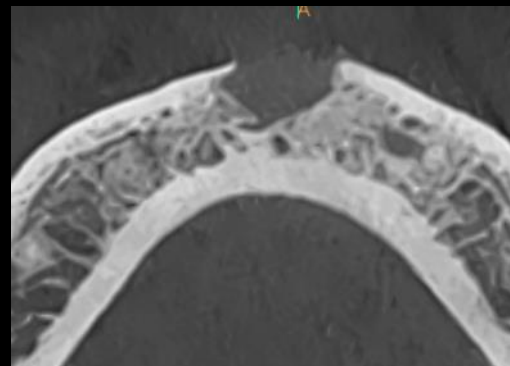
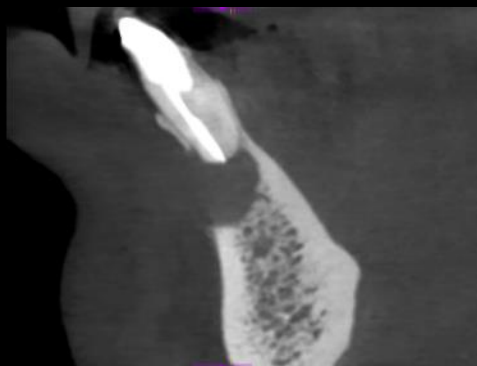


Endodontics

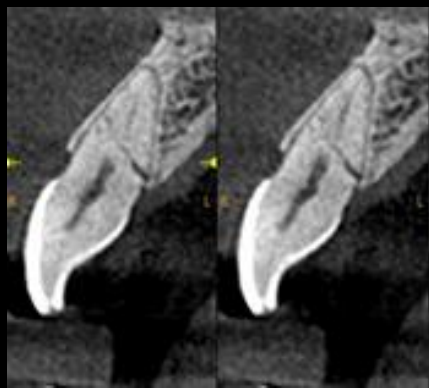
EndoHD Mode - 75 Microns



Periodontics / Fractures



Cyst assessment (12 cm x 5 cm)

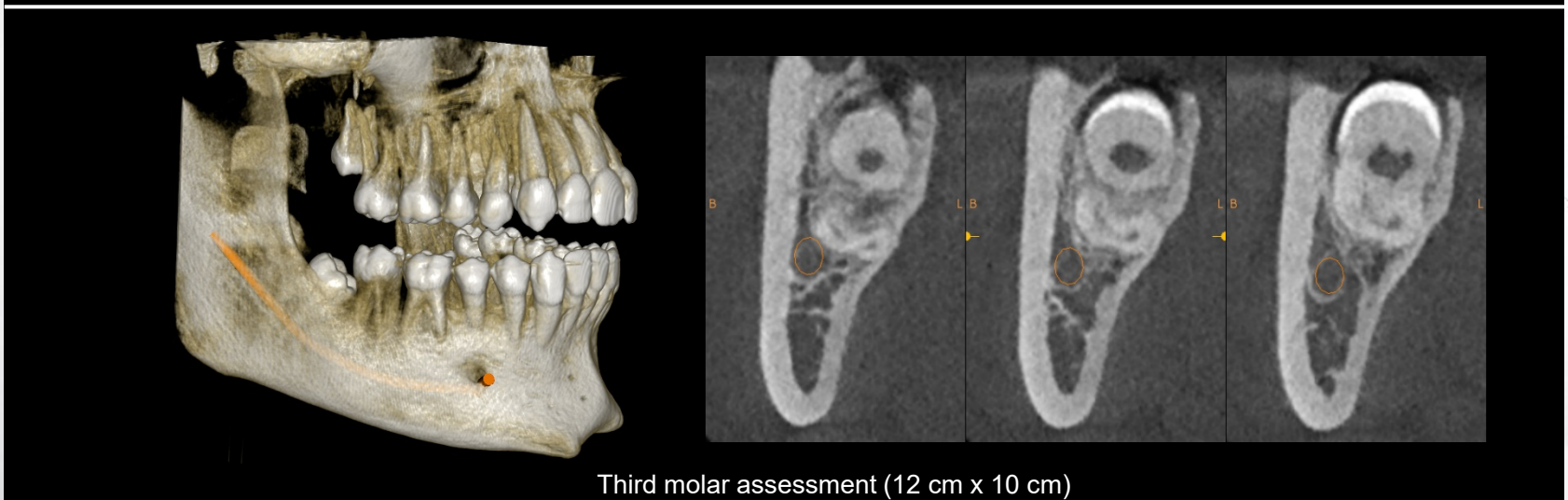
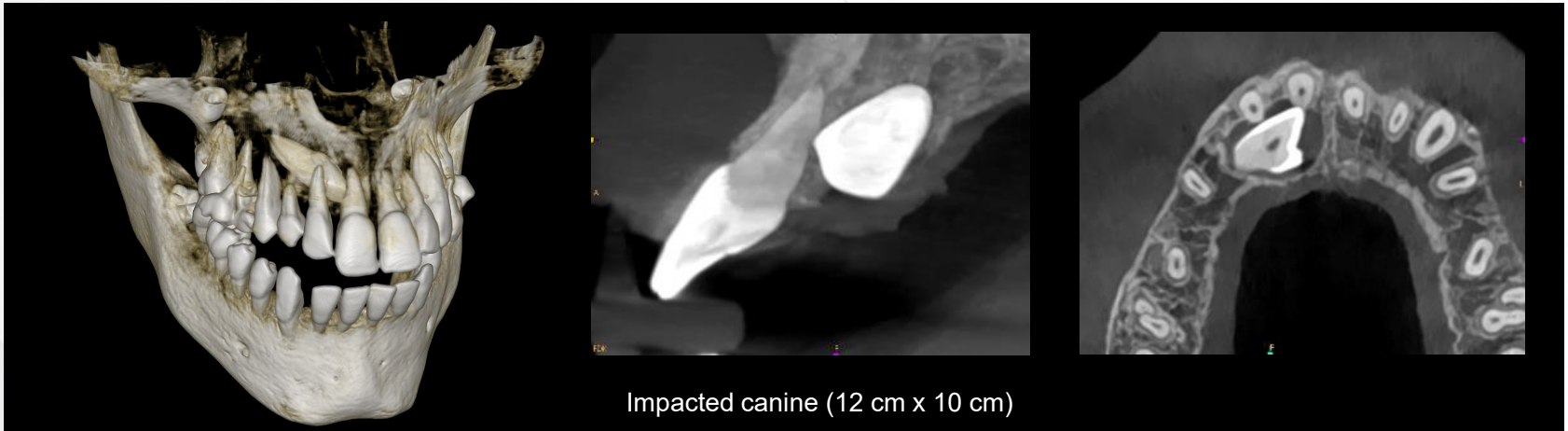


Root fracture (8 cm x 9 cm)



Periodontal condition (12 cm x 10 cm)

Orthodontics



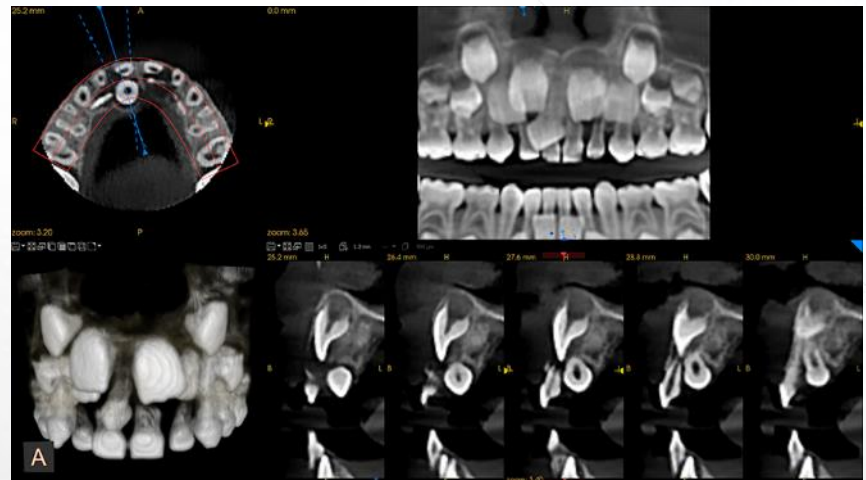
Low Dose Imaging

3D IMAGES AT A LOWER DOSE THAN 2D PANORAMIC

- Delivers 3D images at a patient dose lower or equivalent to 2D panoramic imaging*
- Up to an 83% lower radiation dose than 2D panoramic imaging

Covers multiple applications:

- Implant planning
- Follow-up exams
- Pediatric examinations
- Impactions/supernumerary evaluations



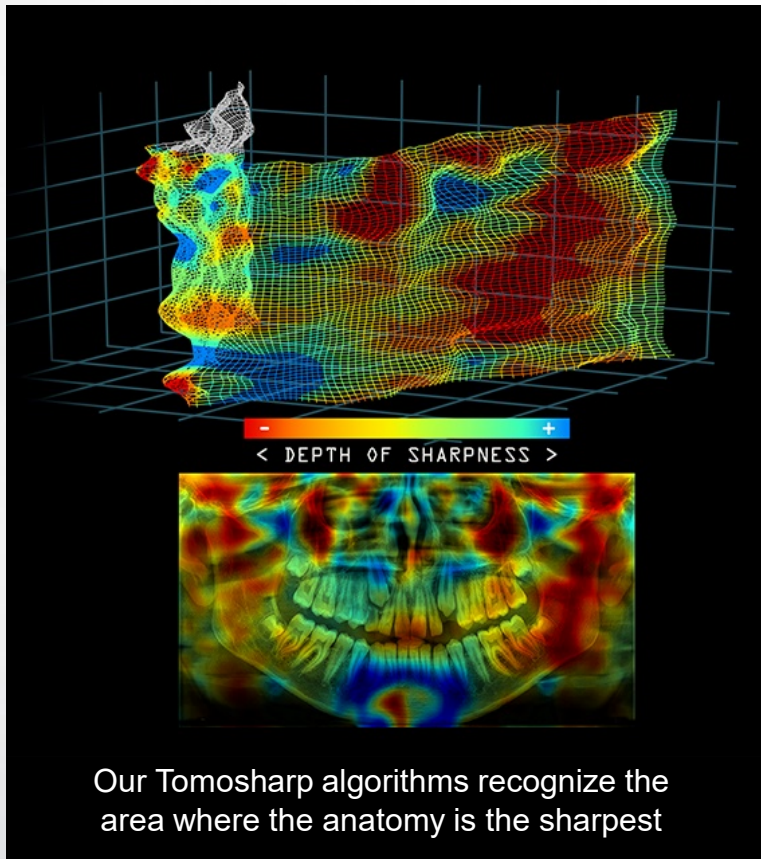
**Based on studies conducted by John Ludlow, University of North Carolina, School of Dentistry, utilizing the CS 8100 3D dose protocol (Aug 2014, Nov 2015, May 2017).*

A New Level of Sharpness

2D Imaging

Perfect Image. Every Single Time.

TOMOSHARP TECHNOLOGY



- Minor positioning errors can cause loss of image sharpness
- Our revolutionary technology captures sharp panoramic images, bypassing limits of traditional methods
- Generates sharp panoramic automatically **even when patient is not perfectly aligned**



The best possible image is reconstructed on a 2D plane

Perfect Image. Every Single Time.

NEW TOMOSHARP TECHNOLOGY + NEW PROCESSING



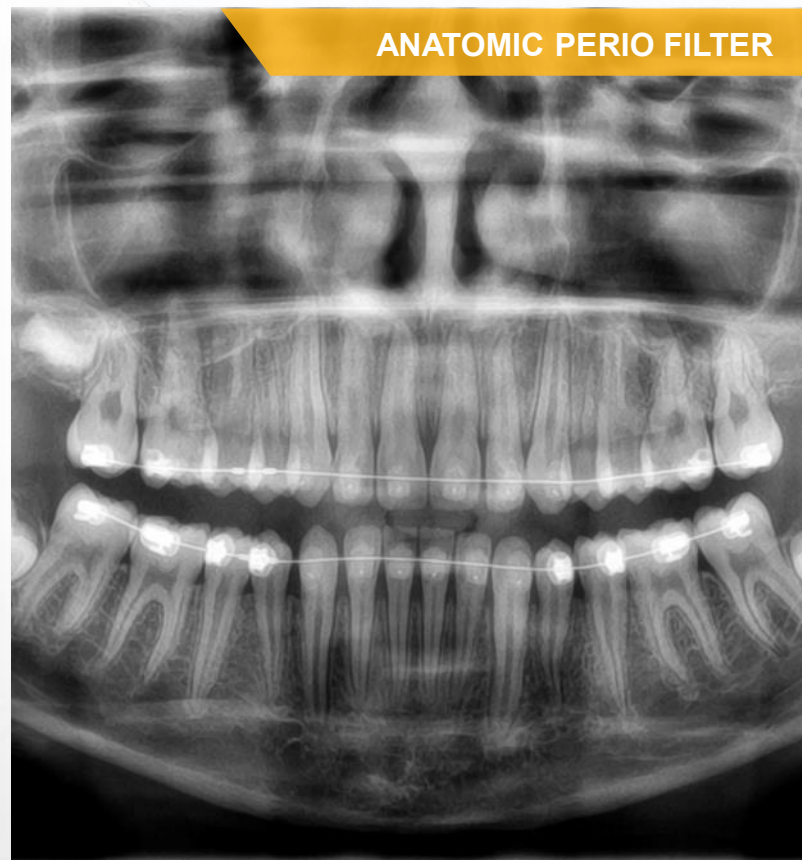
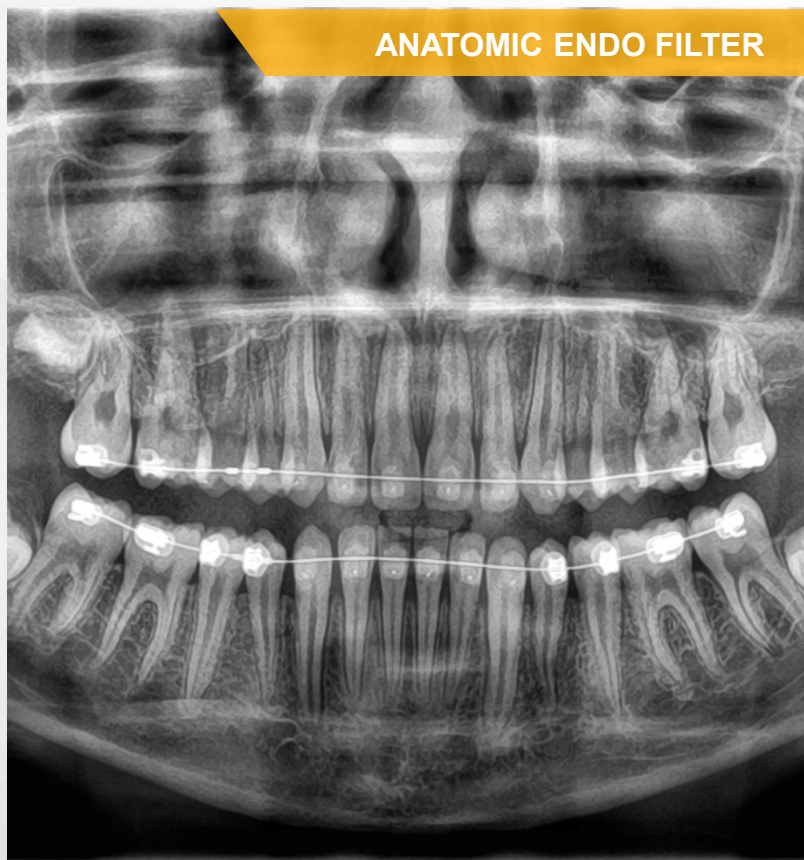
Perfect Image. Every Single Time.

NEW TOMOSHARP TECHNOLOGY + NEW PROCESSING



Perfect Image. Every Single Time.

NEW CS ADAPT IMAGE PROCESSING



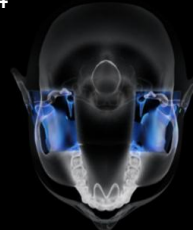
Perfect for Everyday Needs

Full Range of Programs

Standard panoramic



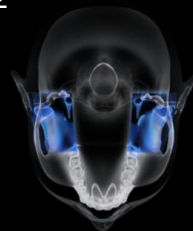
TMJ x4



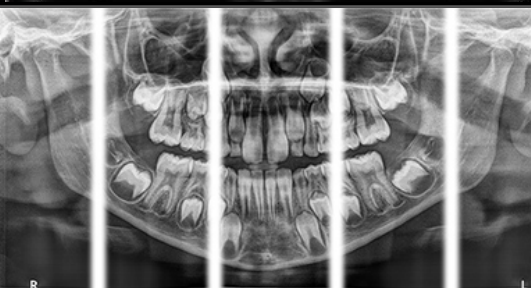
Pediatric program



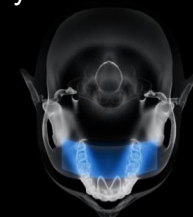
TMJ x2



Segmented program
Panoramic without TMJ



Maxillary sinus

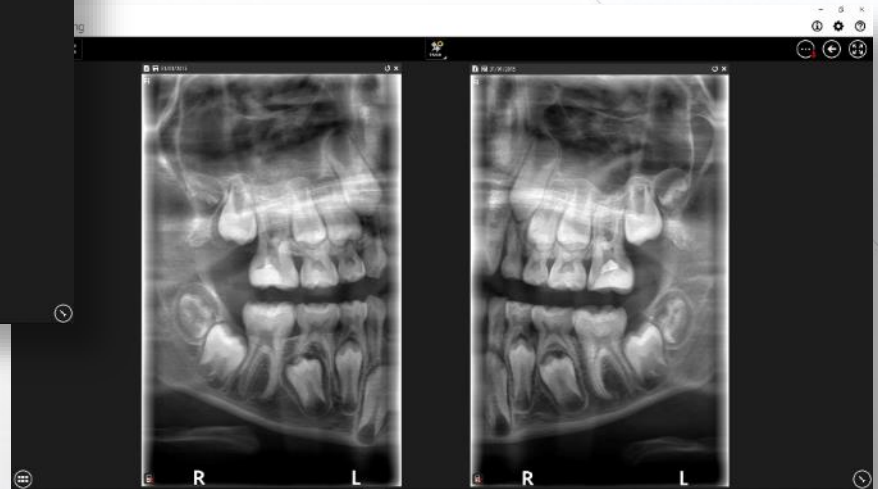
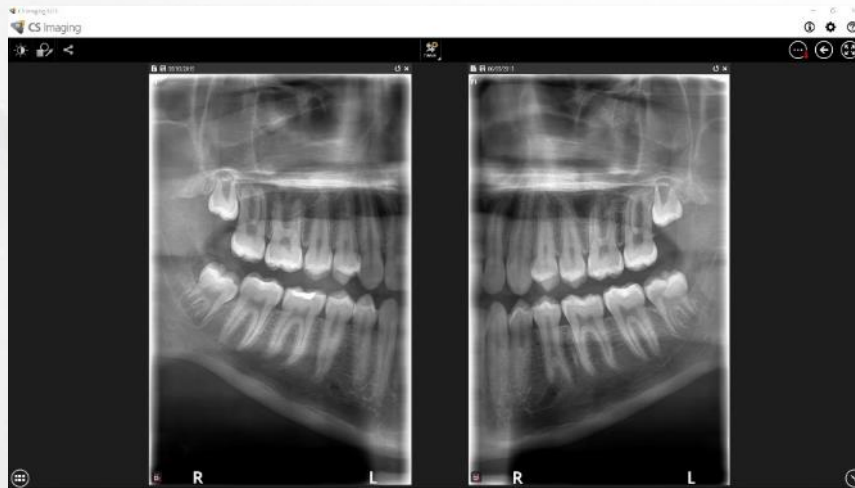


Segmented bitewing



Segmented Bitewing

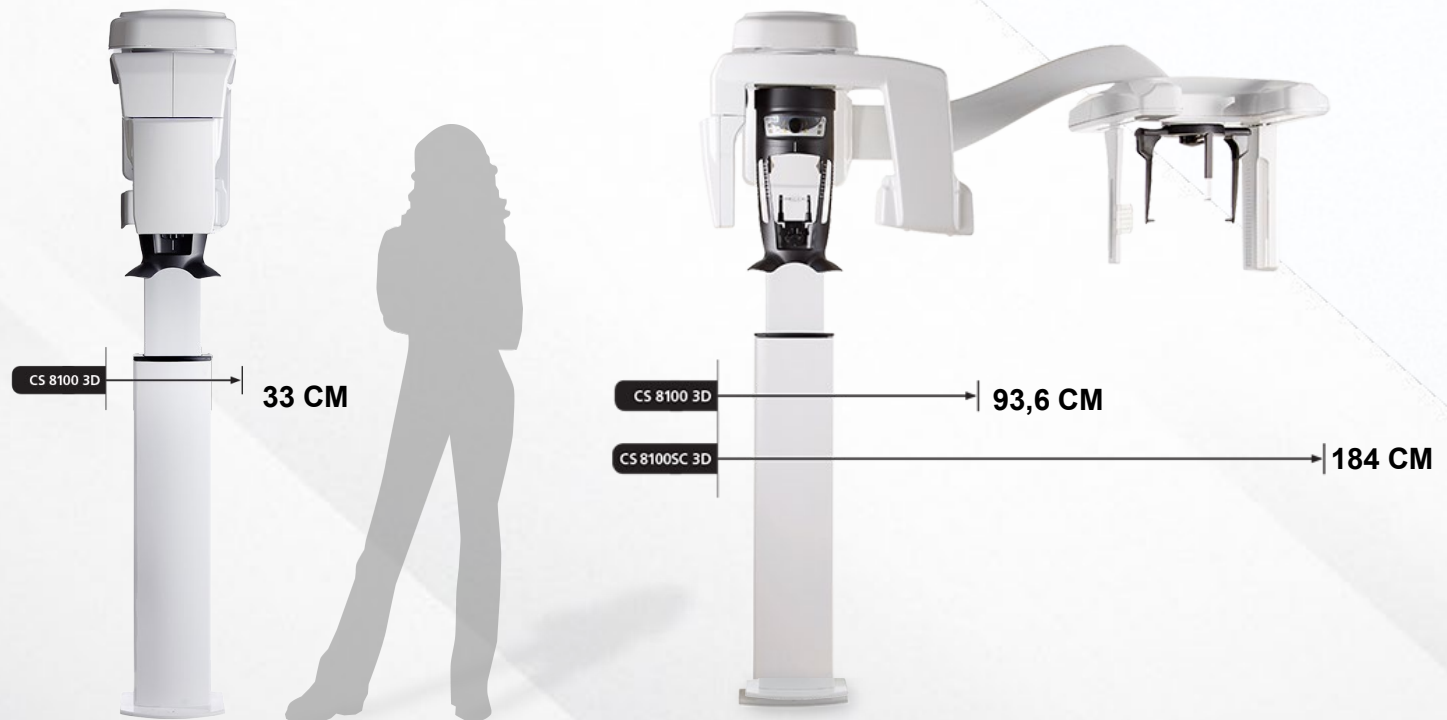
- Captures bitewing images in the same way as for caries detection
- Acquires two segments of the arch in one exposure
- Uses a specific trajectory to reduce teeth overlap



Industry-recognized Ease of Use

One of the Most Compact CBCT Unit

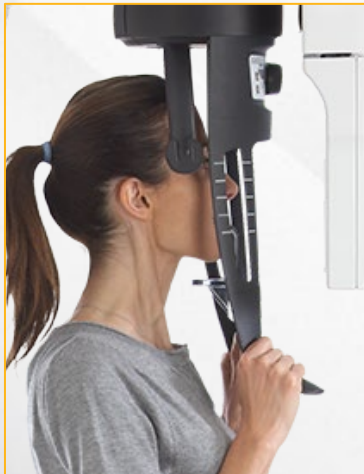
- Compact enough to fit into any practice
- Offers the benefits of panoramic and CBCT imaging without sacrificing operatory space
- Sleek, elegant and compact design offering versatile installation options



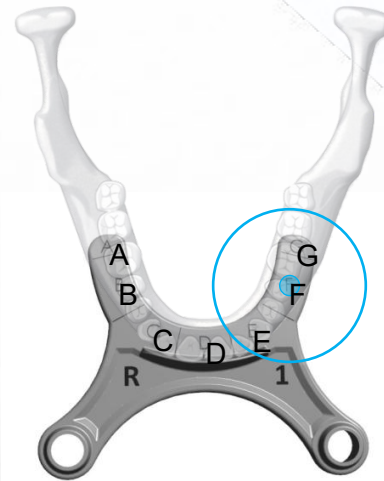
Optimized Positioning



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



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.

Adjustable for Patients of all Sizes

- Easily adjustable for all patients
- Standing or sitting patients
- Wheelchair accessible
- Motorized movements for effortless height adjustment

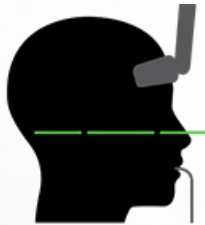


Unrivalled Ease of Use

- A simple workflow for capturing 2D and 3D images with limited risk of errors



1 Select preset program



2 Position the patient—
no need for laser beams

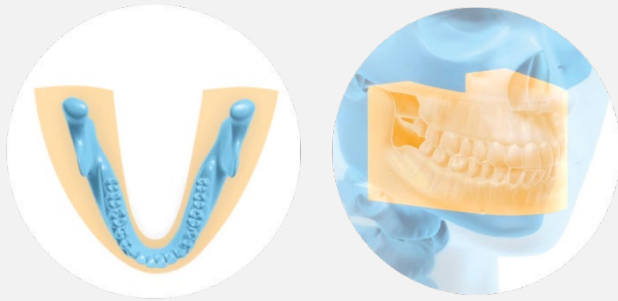


3 Take the X-ray



4 Review the image

Adapts to Every Morphology



A thicker focal trough eliminates the need for laser beam and makes it easier to place teeth in the sharpness area.



Anatomical settings including three jaw shapes that adapt to patient's morphology.

Software and Solutions That Create Opportunities

Your Complete Digital Workflow

CARESTREAM DENTAL DIGITAL SOLUTIONS

DATA CAPTURE



INTRAORAL SCANNERS

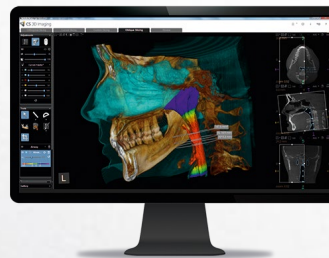


CBCT SYSTEMS

OPTIONAL SPECIALTY APPLICATIONS



**PROSTHETIC-DRIVEN IMPLANT
PLANNING MODULE**
Plan implant with more confidence



CS AIRWAY MODULE
Analyse upper airway precisely



CS MODEL / CS MODEL+
Segment, setup, and present digital
models

Implant Solutions

ONE INTEGRATED SOLUTION, FROM 3D SCANNING TO RESTORATION*



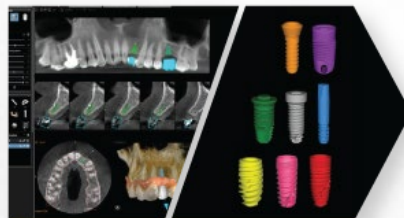
**SCANNING AND
DIAGNOSIS**



- Take a CBCT scan and a digital impression



3D PLANNING



- Merge data using PDIP module
- Plan implant with optimal restoration in mind



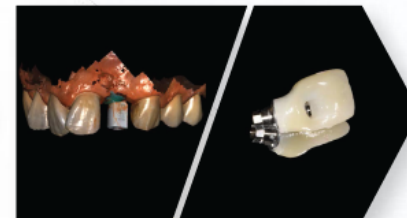
PLACEMENT



- Prepare for surgery with or without guide
- Export data for surgical guide creation



RESTORATION



- Communicate seamlessly with your lab for restoration design

* Full workflow requires optional equipment and software

One Stop-access to All Your Images

CS IMAGING VERSION 8 SOFTWARE



Cephalometric Imaging*

CS 8200 3D with Scan Ceph Module

- Upgradable at any time
- Enhanced image processing
- Auto-tracing in 10 seconds

* Option



CS 8200 3D with Scan Ceph Module

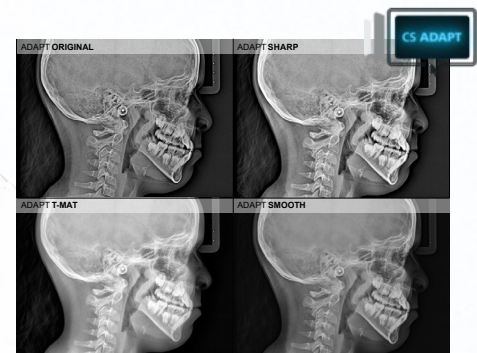
KEY FEATURES



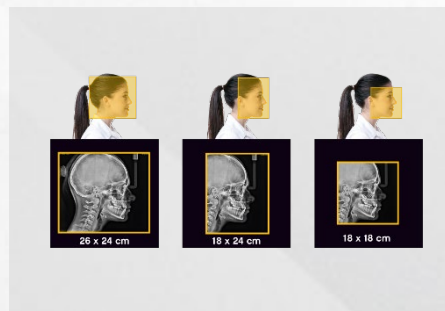
Scanning in only 3 seconds



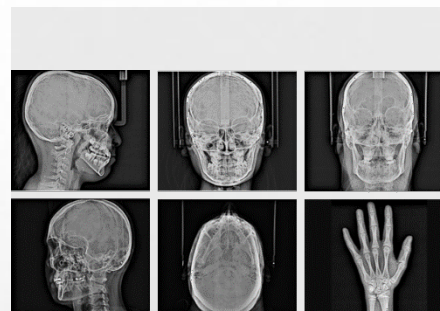
Automatic tracing* in 10 seconds



Orthodontic pre-set filters



Wide range of fields of view

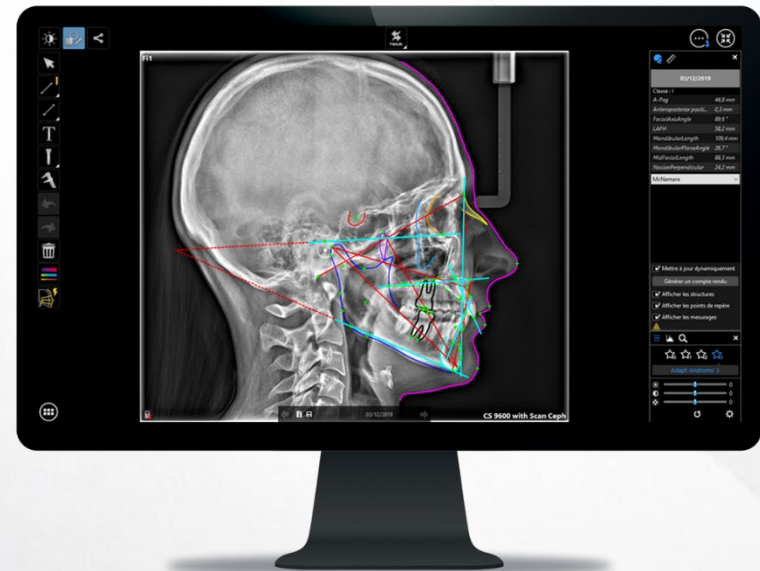


Full range of projections

* Option

Automatic Tracing

- True automatic tracing in just 10 seconds*
- Automatically recognizes anatomical landmarks and traces structures
- Covers most common analysis needs (Ricketts, MacNamara, Steiner, Tweed...)
- Personalize tracing and create templates
- Print and export to other software



* With 18 x 24 cm image

Ultra-fast Scanning Time

- Scan an image in as little as 3 seconds*
- Reduces risk of motion blur and patient dose
- Quick mode available on all fields of view

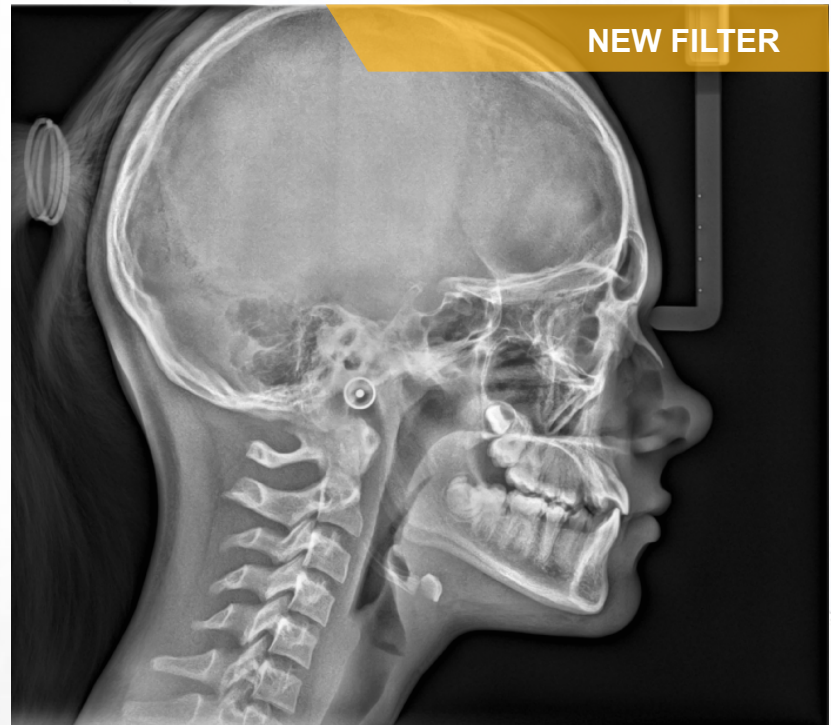
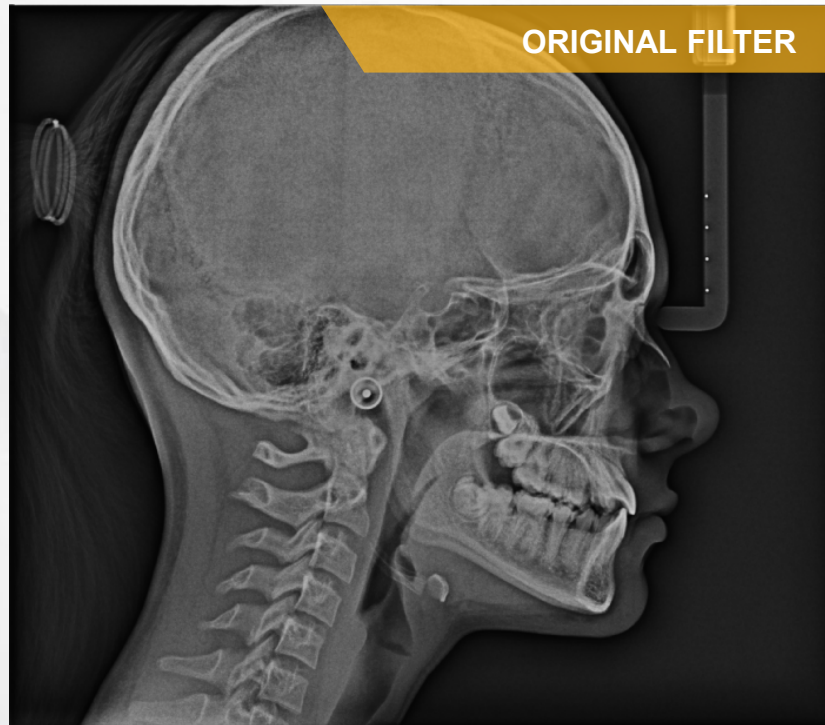


*18 cm x 24 cm lateral image in fast scan mode

Best-in-class Cephalometric Images



New Image Processing



Orthodontic Pre-set Filters

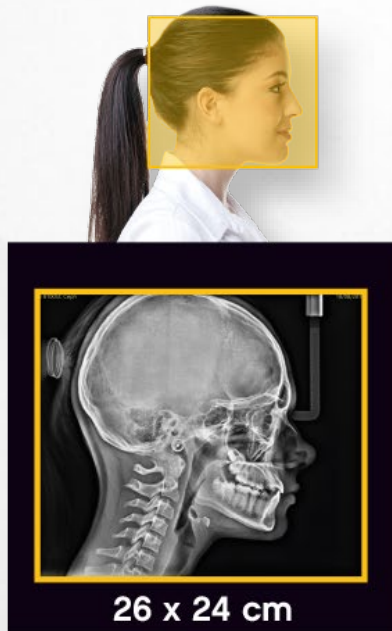
- Orthodontic filters meet your specific diagnostic needs
- Enhance visualization of bone, soft tissue and optimize contrast with just one click



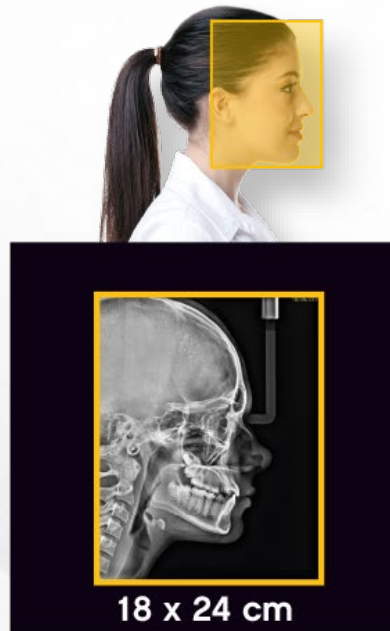
- Enhances the skin line
- Enhances bone and air structures with higher contrast
- Enhances skin line, bone and air structure simultaneously

Wide Range of Fields of View

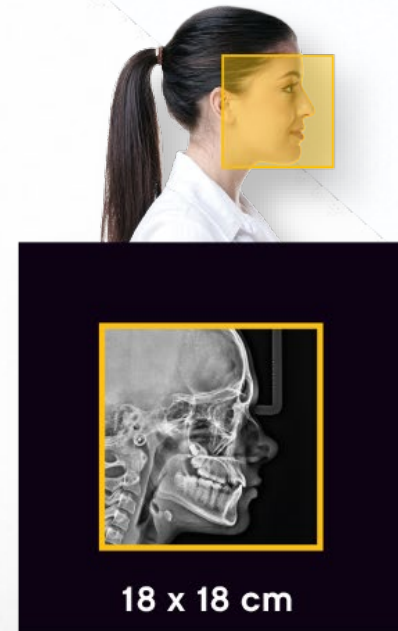
- Selectable fields of view to meet all your diagnostic and analysis needs
- Exposure area can be reduced for better patient protection
- Ideal for practices that treat a lot of children



For cranial exams

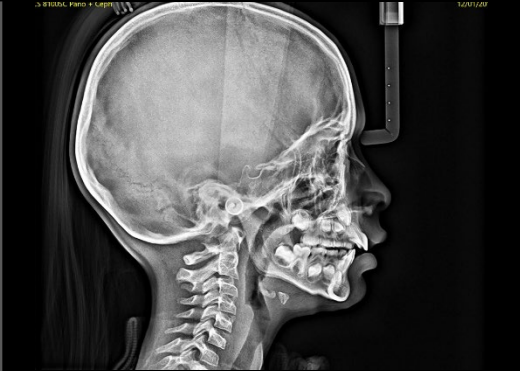







Standard format



Reduced format
to limit exposure area

Full Range of Projections

Lateral view		Oblique view	
Frontal AP view		Submento vertex view	
Frontal PA view		Carpus (optional)	

CS Advantage Service Offering

STAY TUNED AND COVERED WITH CS ADVANTAGE

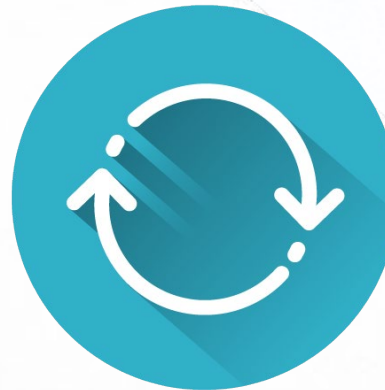


CS ADVANTAGE



CS PROTECT

A warranty extension service to ensure peace of mind



CS UPDATE

Provides access to the latest updates available for your software.





CS SUPPORT

Training and support to provide the best possible user experience







CS Advantage Service Offering



Services	CS 8200 3D	Scan Ceph Module
Warranty (All Parts)	 CS ADVANTAGE	 CS PROTECT*
Software Update		Included in CS Advantage for CS 8200 3D
Support		Included in CS Advantage for CS 8200 3D

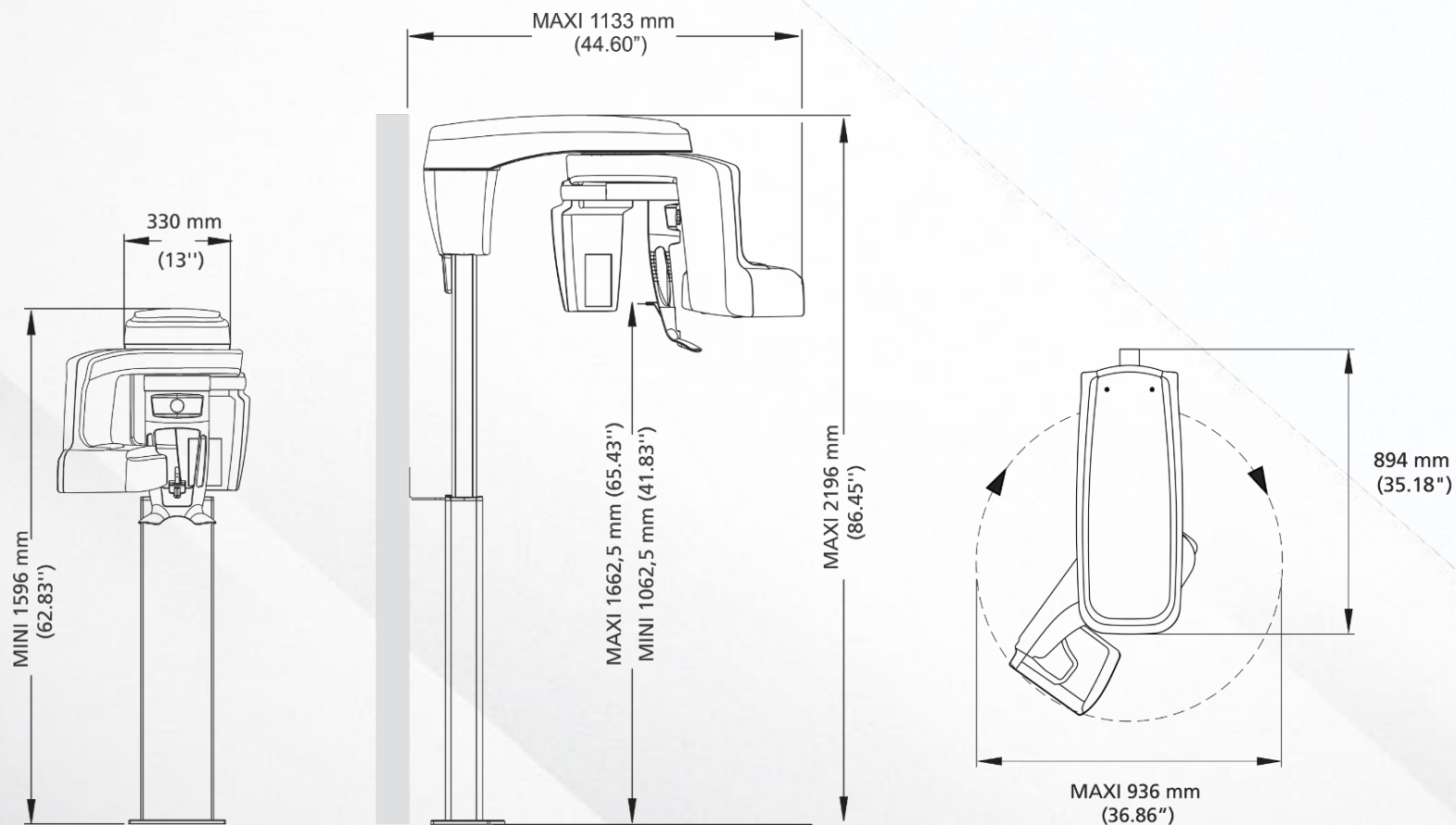
* Subscription to CS Advantage is required

Our Extraoral Portfolio

	 2D	 2D 3D	 2D 3D NEW	 2D 3D	 2D 3D	 2D 3D
	CS 8100 CS 8100SC	CS 8100 3D CS 8100SC 3D	CS 8200 3D Family	CS 9600 12x10 Edition	CS 9600 16x10 Edition	CS 9600 16x17 Edition
FOVs (CBCT)	-	4 FOVs available: 4 x 4 cm to 8 x 9 cm	4 or 6 FOVs available: 4 x 4 cm to 12 x 10 cm	10 FOVs available: 4 x 4 cm to 12 x 10 cm	12 FOVs available: 4 x 4 cm to 16 x 10 cm	14 FOVs available: 4 x 4 cm to 16 x 17 cm
Tomosharp pan imaging	✓ NEW	✓ NEW	✓	✓ NEW	✓ NEW	✓ NEW
Ceph imaging	✓	✓	✓	✓ * NEW	✓ * NEW	✓ * NEW
CBCT imaging	Upgradable to 3D	✓	✓	✓	✓	✓
3D model scan	-	✓	✓	✓	✓	✓
3D facial scanner	-	-	-	✓ *	✓ *	✓ *
CS MAR	-	✓ * NEW	✓ *	✓ *	✓ *	✓ *
120 kV tube voltage	-	-	-	✓ *	✓ *	✓ *
Practices / Specialties	General practice Orthodontics	General practice Endodontics	General practice Implant Periodontics Orthodontics	General practice Endodontics Implant Oral surgery Periodontics	Implant Oral surgery Periodontics	Oral and maxillofacial surgery Orthodontics Radiology centers Hospitals ENT

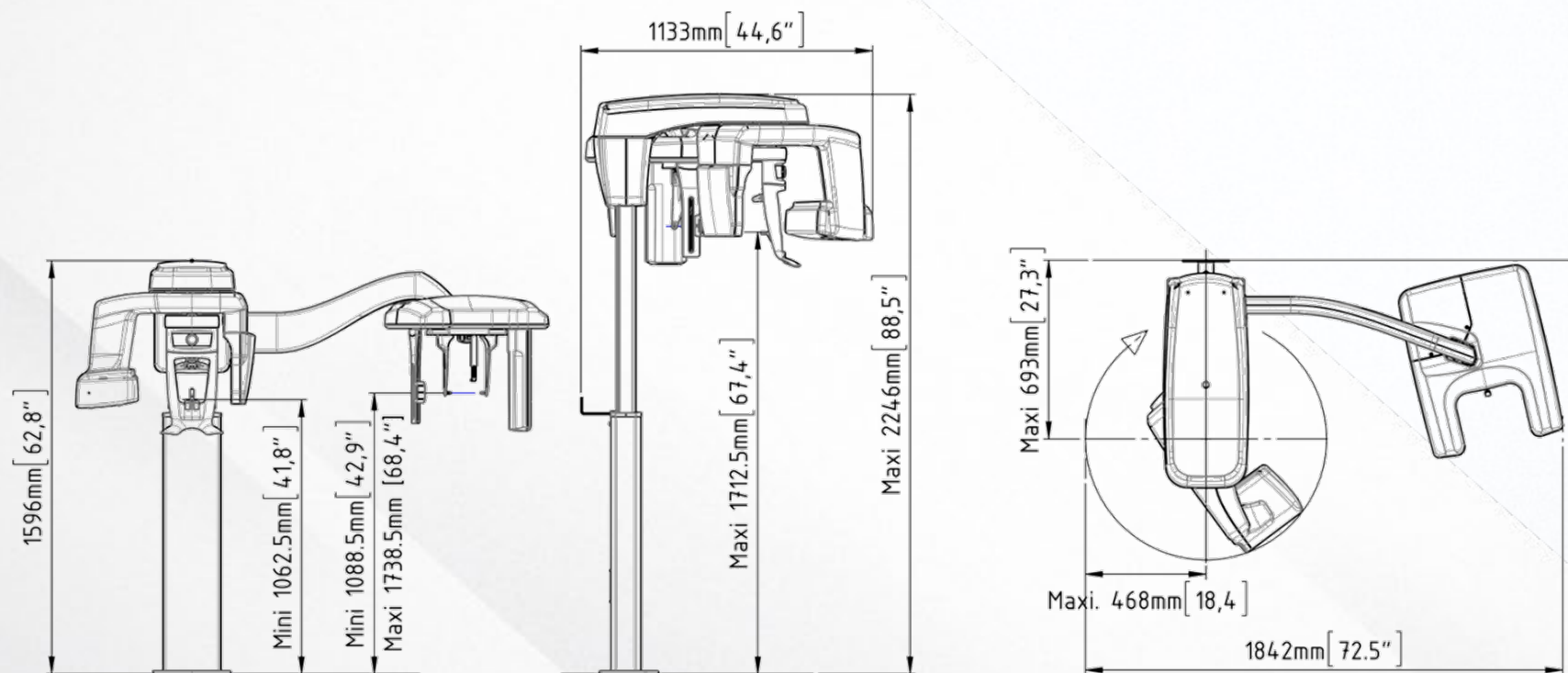
Unit Dimensions

CS 8200 3D



Unit Dimensions

CS 8200 3D with Scan Ceph Module



Technical Specifications

Tube voltage	60 - 90 kV		
Tube current	2 - 15 mA		
Frequency	140 kHz		
Tube focal spot	0.7 mm with X-ray tube OPX110 / 0.6 mm with X-ray tube D-067		
Total filtration	> 2.5 mm eq. Al		
Input voltage (AC)	100 - 240 V 50/60 Hz		
Minimum required space	Without ceph arm: 1200 (L) x 1400 (D) x 2400 (H) mm With ceph arm: 2000 (L) x 1400 (D) x 2400 (H) mm		
Weight	Without ceph arm: 92 kg (202 lb.) With ceph arm: 127 kg (280 lb.)		
	Panoramic Modality	Cephalometric Modality	3D Modality
Sensor technology	CMOS	CMOS	CMOS
Image field	6.4 x 140 mm (Adult) 6.4 x 120 mm (Pediatric)	6.4 x 263.3 mm	Field of View (cm): 4 x 4 / 5 x 5 8 x 5 / 8 x 8 / 8 x 9 / 12 x 5 / 12 x 10
Gray scale	16384 - 14 bits	16384 - 14 bits	16384 - 14 bits
Magnification	1.2	1.13	1.4
Radiological exam options	Full panoramic, segmented panoramic, maxillary sinus, LA TMJ x 2, LA TMJ x 4	Lateral, frontal AP or PA, oblique, submento-vertex, carpus (optional)	Full, upper or lower jaw - Full, upper or lower molar – Occlusion - Teeth
Exposure mode	4 patient sizes (Child. Adult: small, medium, large) 3 dental arch morphology (normal, square, sharp)	4 patient sizes (Child. Adult: small, medium, large)	High Definition (75 µm), Standard, Fast and low dose
Exposure time	2 to 14 seconds	2.9 to 11 seconds	3 to 20 sec



Thank You

