CS 8100 3D Family
Evo Edition

THE POWER OF SIMPLE CBCT

A proven 2D/3D imaging system that puts the power of in-office CBCT within reach of every general practice.

Carestream
DENTAL

Simplicity at Its Best

WHAT'S NEW

- CS MAR with exclusive live comparison tool
- Advanced Noise Reduction
- Tomosharp technology
- Enhanced image processing
- CS Imaging version 8 software

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The Power of Simple CBCT

VERSATILE 2D/3D SYSTEM
Versatile and multifunctional system that fits your needs and budget

SELECTABLE FIELDS OF VIEW
Four selectable fields of view ranging from 4 cm x 4 cm to 8 cm x 9 cm

ARTIFACT-FREE, HIGH RESOLUTION IMAGES
High-resolution images with limited artifacts and noise

A NEW LEVEL OF SHARPNESS
Tomosharp technology delivers optimal panoramic image sharpness

ULTRA-COMPACT DESIGN
One of the most compact CBCT system fitting into any practice

POWERED WITH CS IMAGING VERSION 8
Provides you with one-stop access to all your images and CAD/CAM data
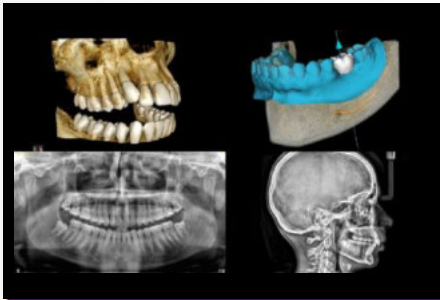
The Award-winning CS 8100 Family

OUR MOST AWARDED SYSTEM

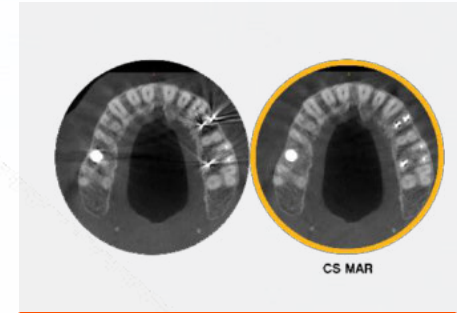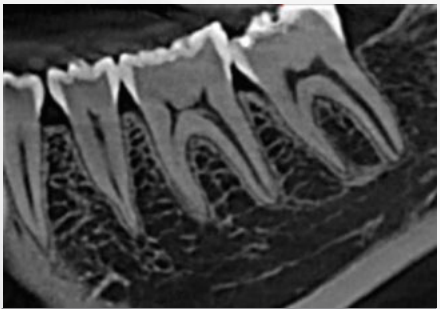# CS 8100 3D

KEY FEATURES

Multi-functional system

Selectable fields of view

Reduced metal artifacts

High-resolution, noise-free images

Crystal-clear panoramic images
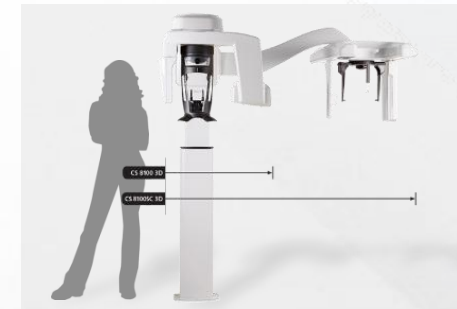
Ultra compact size

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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.
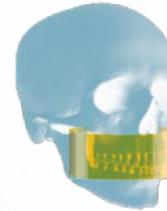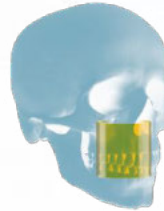

Pan and ceph imaging

CBCT imaging

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
Voxel size (microns)	75-150-300-400	75-150-300-400	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.

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Selectable Resolution

ADAPTS TO EVERY CLINICAL NEEDS
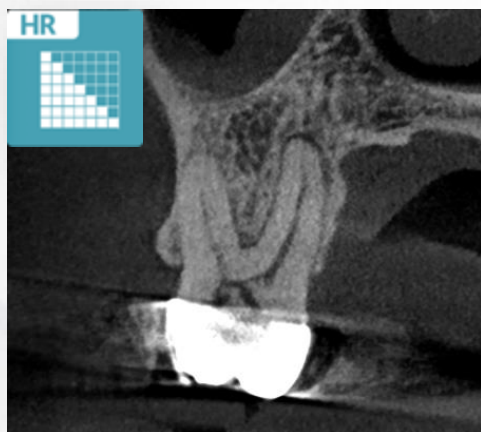
ENDO HD MODE

- Voxel size 75 µm or 150 µm
- Ideal for endodontics and any case requiring the highest resolution possible
- Available on 4 x 4 cm to 5 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
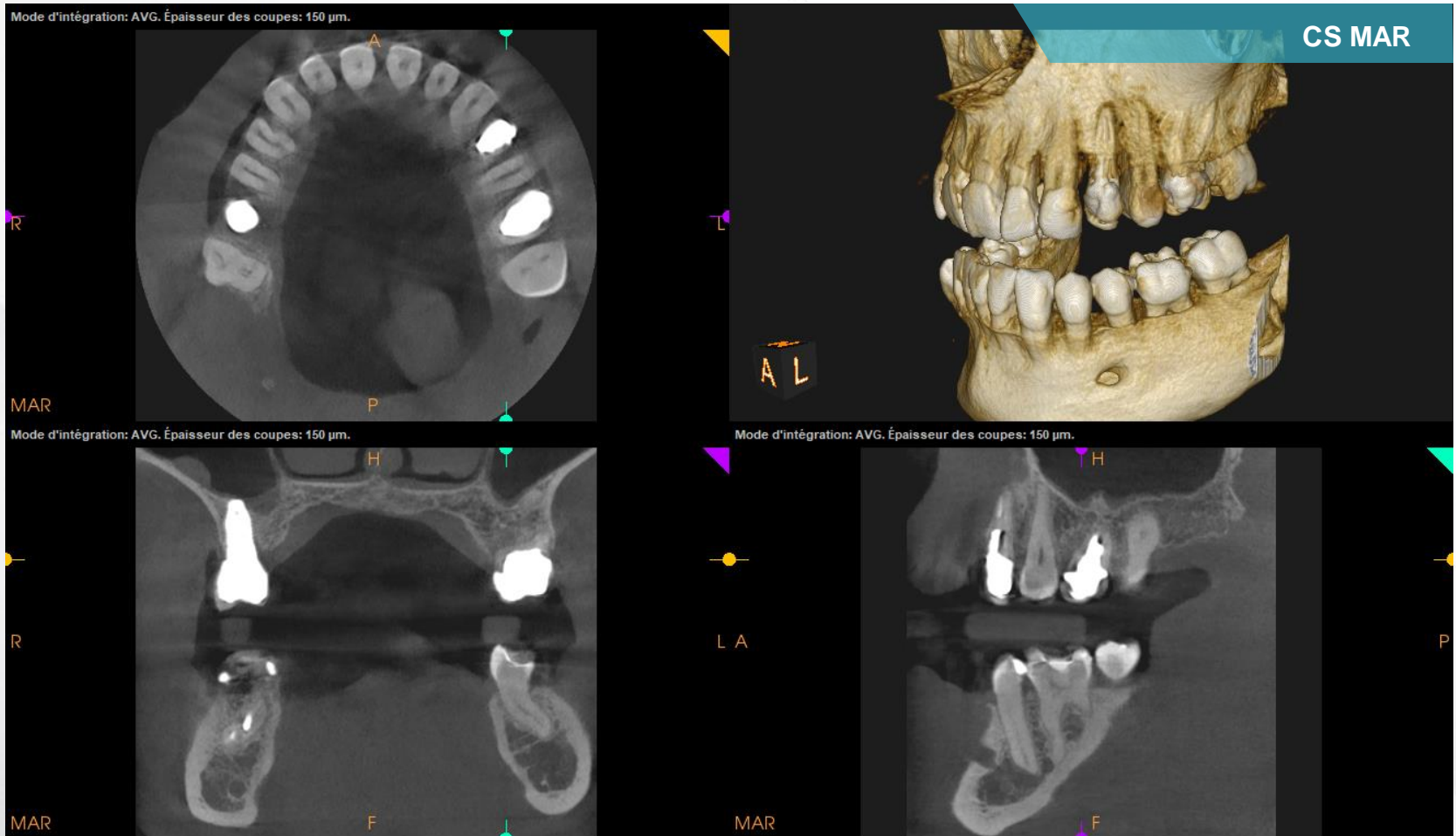- For sensitive cases requiring low dose, such as pediatric or follow up examinations

CS MAR
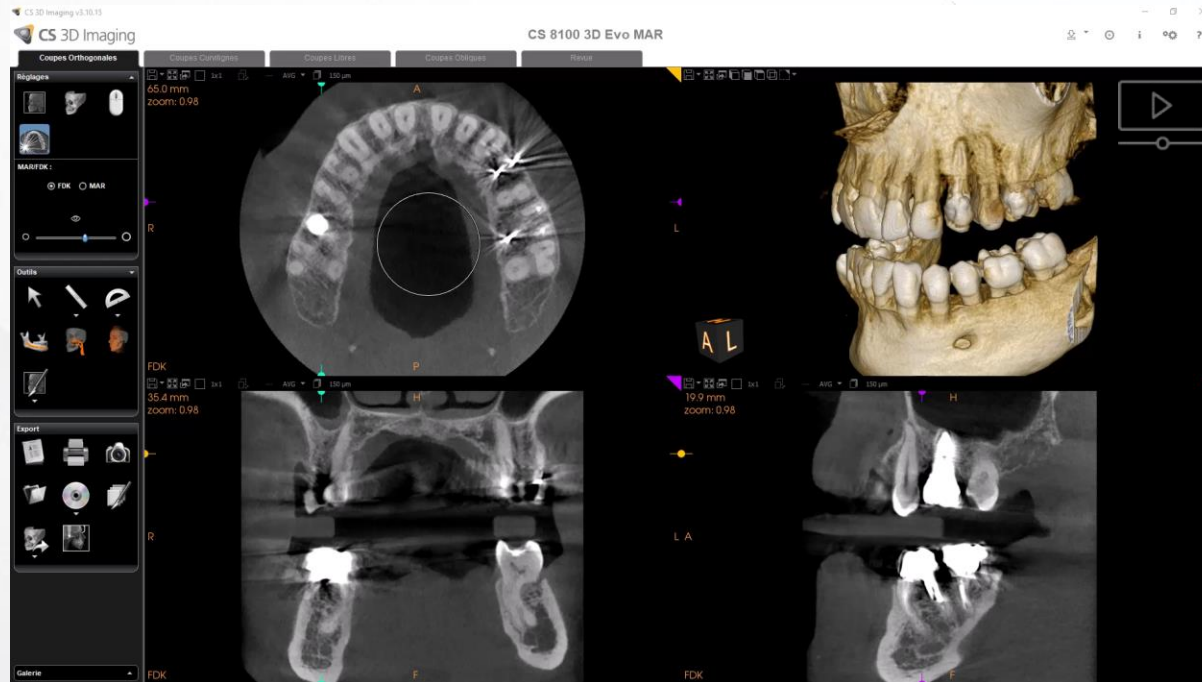
FEATURING UNIQUE LIVE COMPARISON TOOL

Without MAR

CS MAR

CS MAR

FEATURING UNIQUE LIVE COMPARISON TOOL

- Enables live comparison of images with and without MAR filter
- Helps confirm diagnoses and reduces risk of misinterpretation
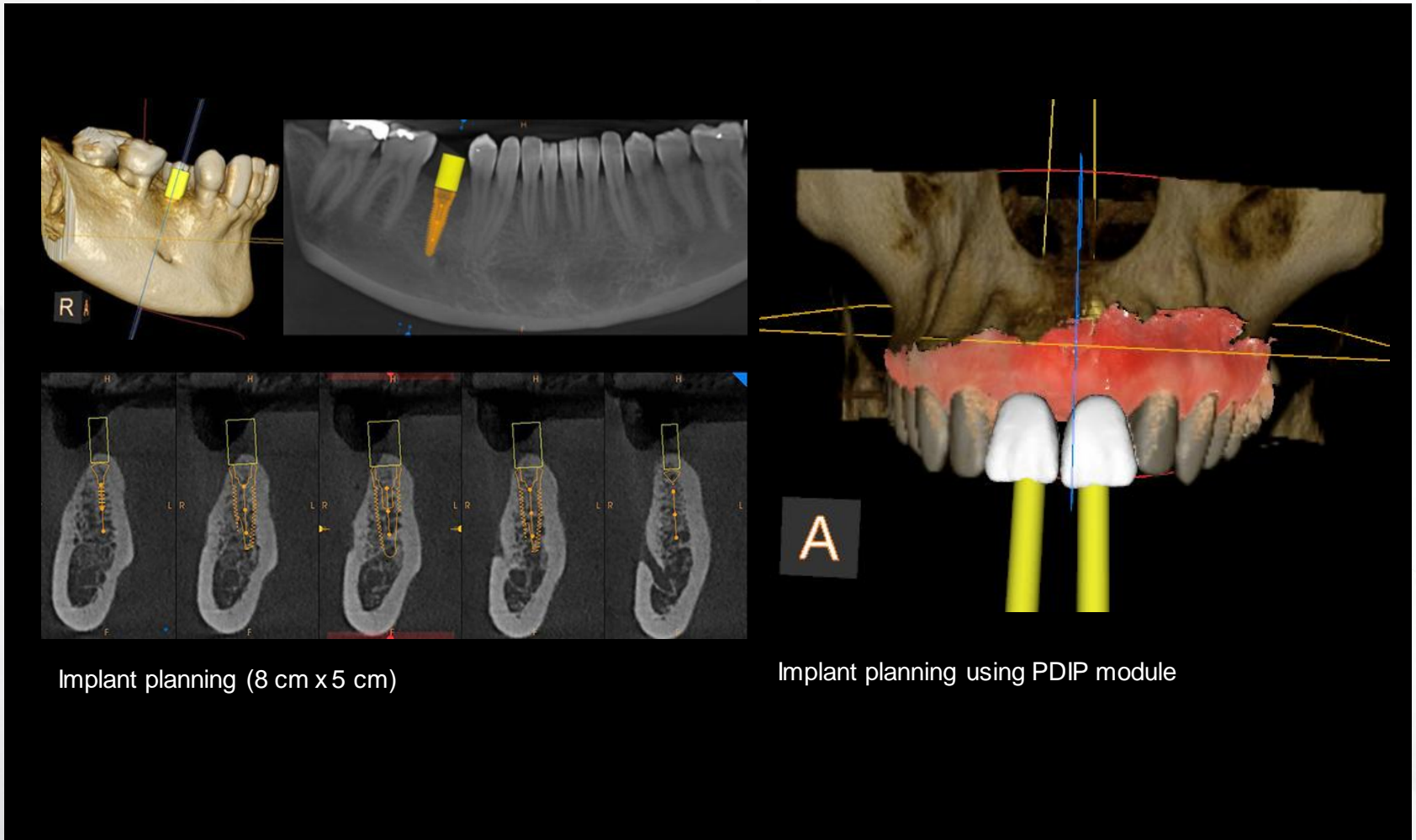
Advanced Noise Reduction (ANR)

- 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
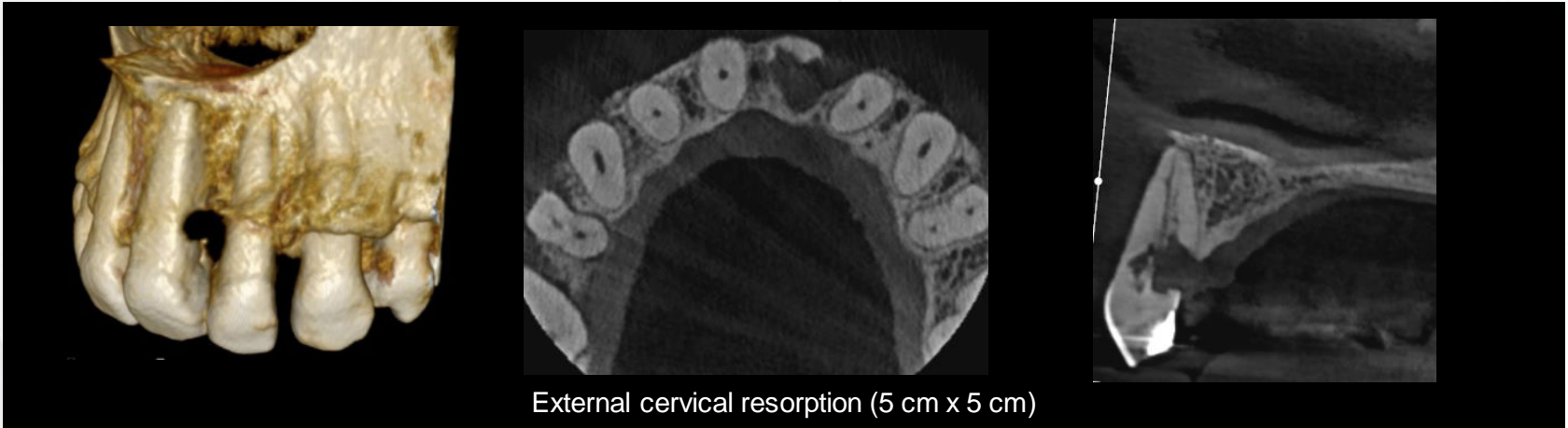

WITHOUT ANR   WITH ANR
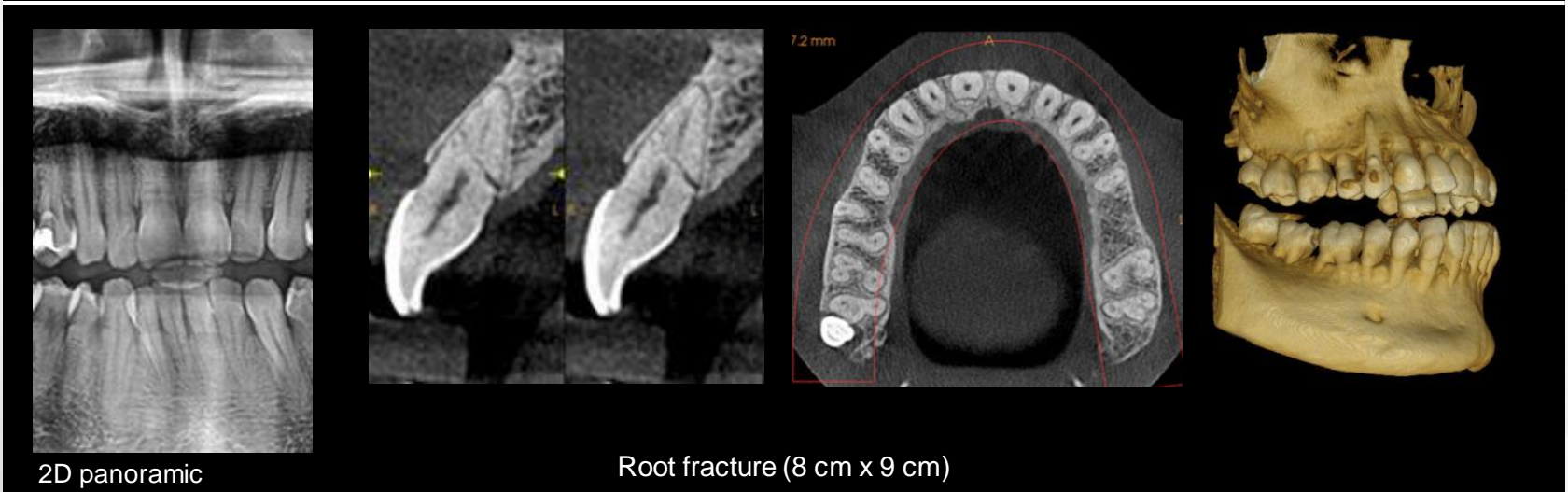
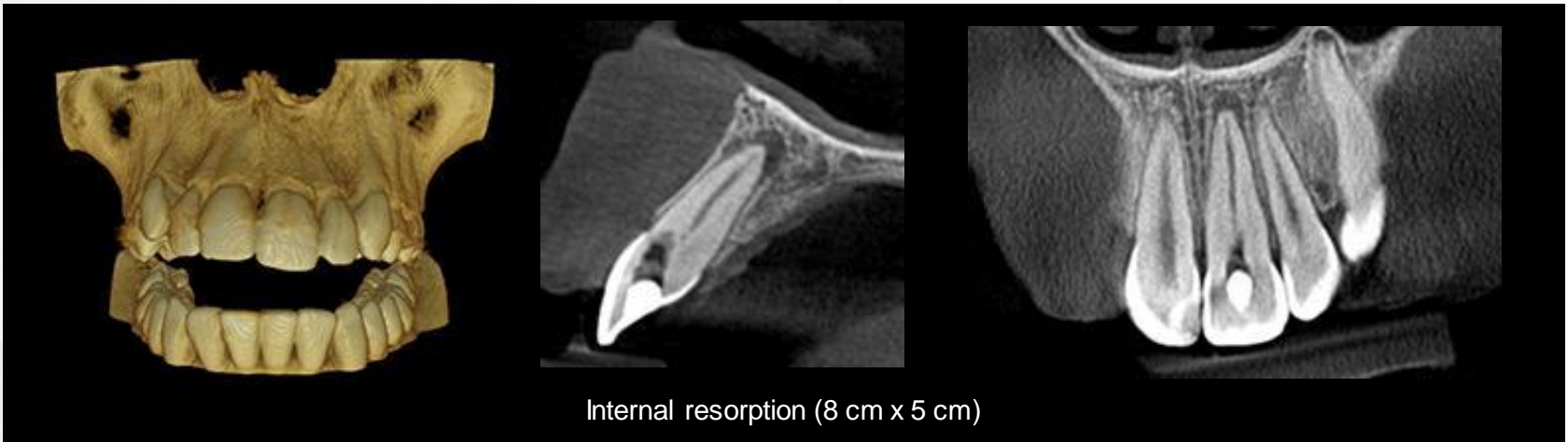# Implants

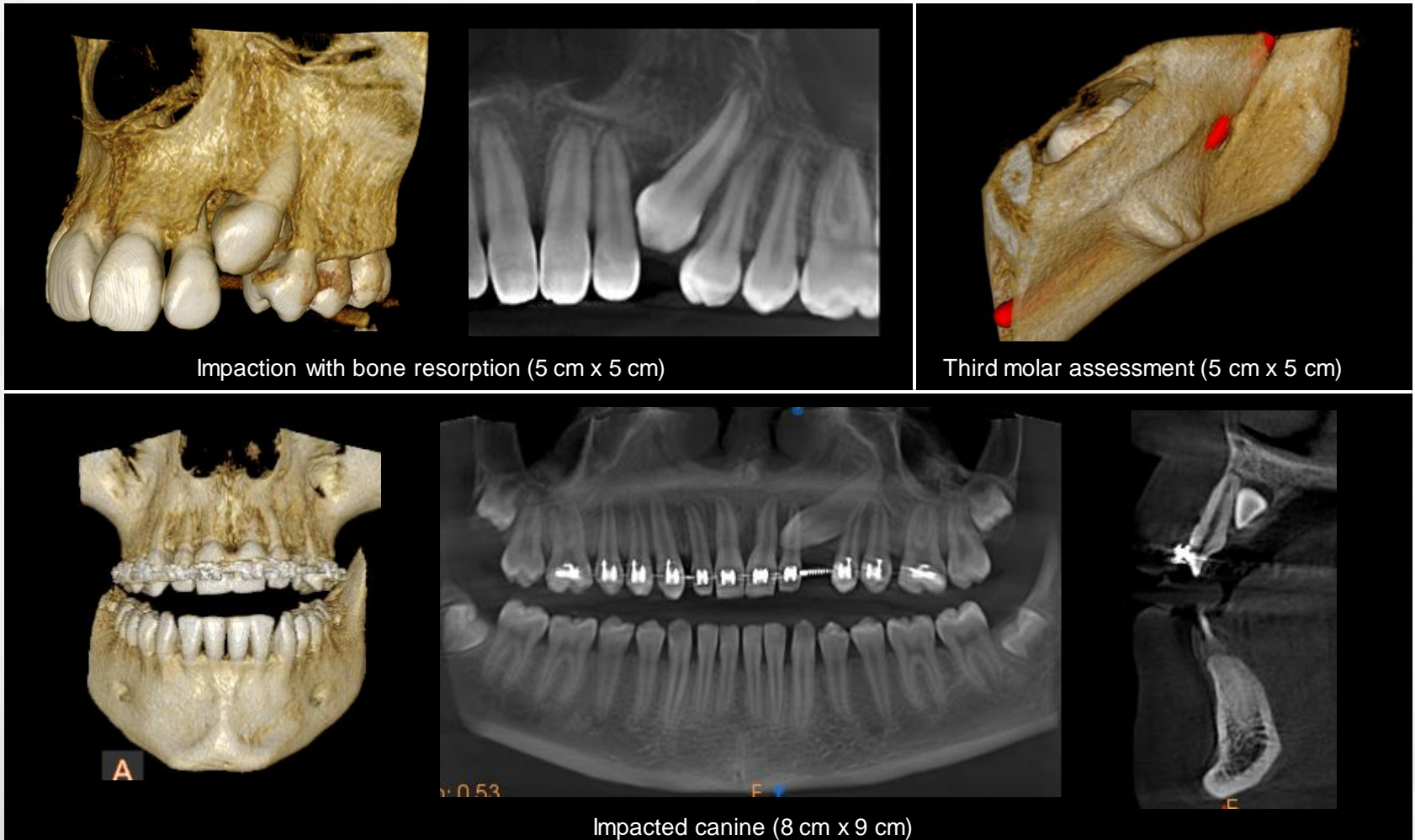Implant planning (8 cm x 5 cm)

Implant planning using PDIP module

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Endodontics

EndoHD Mode - 75 Microns

External cervical resorption (5 cm x 5 cm)

Middle mesial canal (5 cm x 5 cm)

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Periodontics / Fractures

Internal resorption (8 cm x 5 cm)

2D panoramic

Root fracture (8 cm x 9 cm)

Orthodontics

Impaction with bone resorption (5 cm x 5 cm)

Third molar assessment (5 cm x 5 cm)

Impacted canine (8 cm x 9 cm)

# 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

83%

Up to 90% lower dose than 2D panoramic image*

Covers multiple applications:

- Implant planning
- Follow-up exams
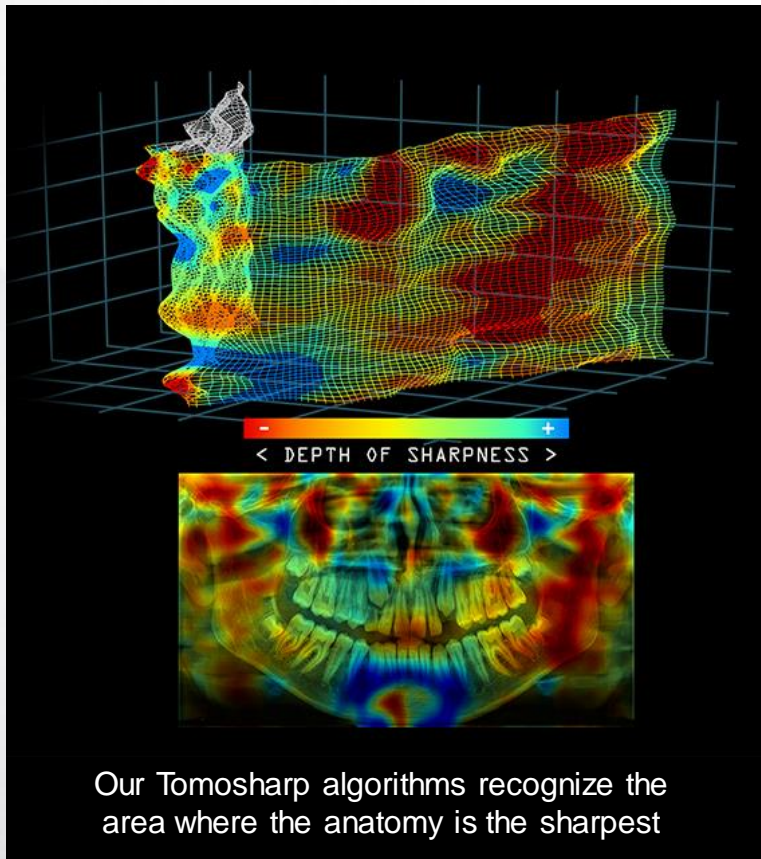- Pediatric examinations
- Impactions/supernumerary evaluations
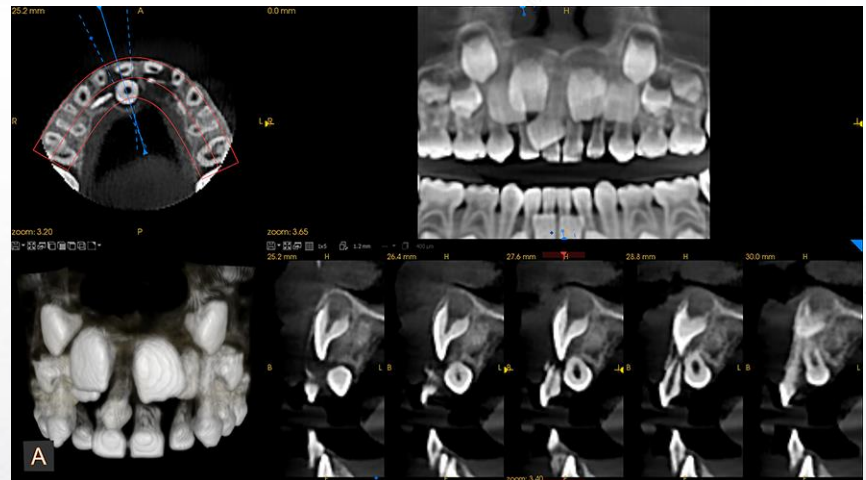
*Based on studies conducted by John Ludlow, University of North Carolina, School of Dentistry, utilizing the CS 8100 3D dose protocol (Aug 2014, Nov 2015, May 2017).

A New Level of Sharpness
2D Imaging

Carestream
DENTAL

Perfect Image. Every Single Time.

TOMOSHARP TECHNOLOGY

Our Tomosharp algorithms recognize the area where the anatomy is the sharpest

- 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.

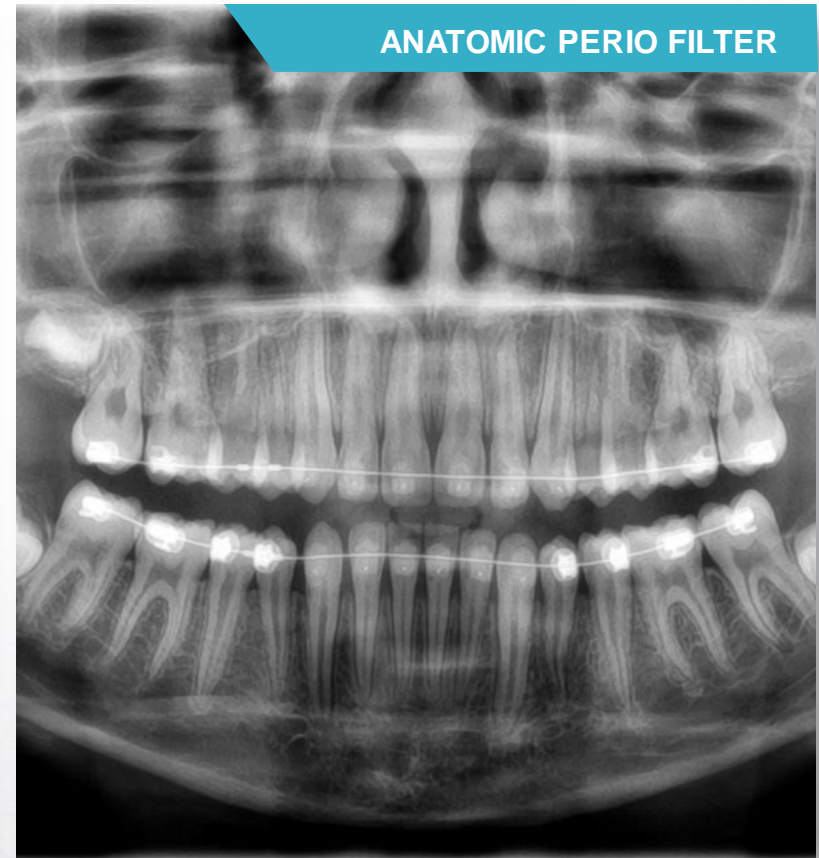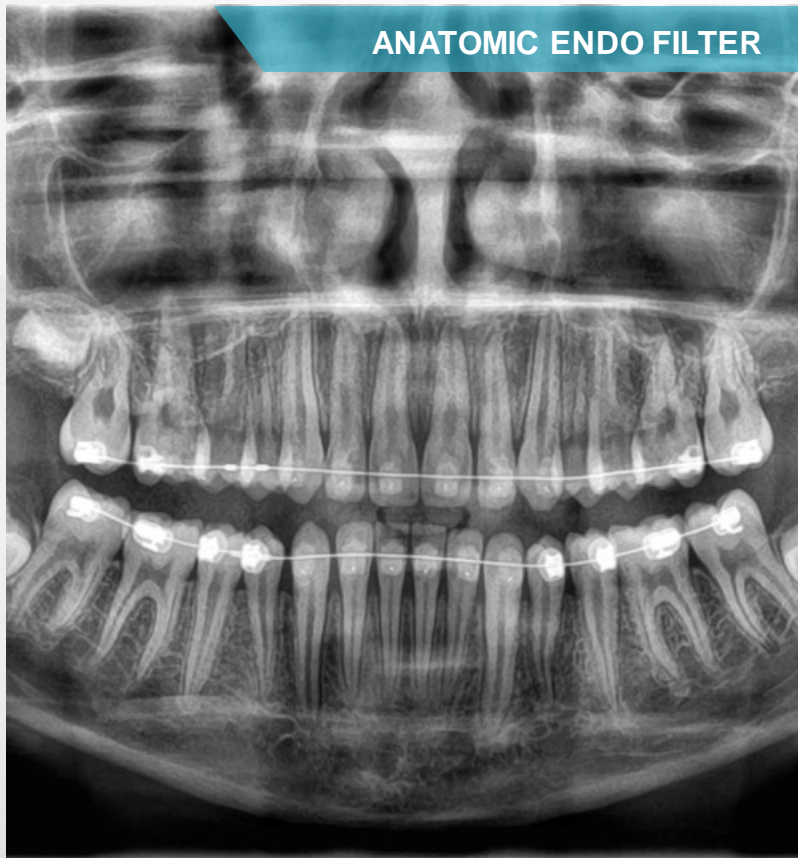NEW TOMOSHARP TECHNOLOGY + NEW PROCESSING

Perfect Image. Every Single Time.

NEW TOMOSHARP TECHNOLOGY + NEW PROCESSING

Perfect Image. Every Single Time.
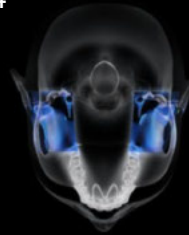
NEW CS ADAPT IMAGE PROCESSING

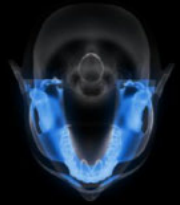ANATOMIC ENDO FILTER

ANATOMIC PERIO FILTER
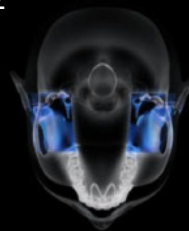
Perfect for Everyday Needs

Full Range of Programs

Standard panoramic
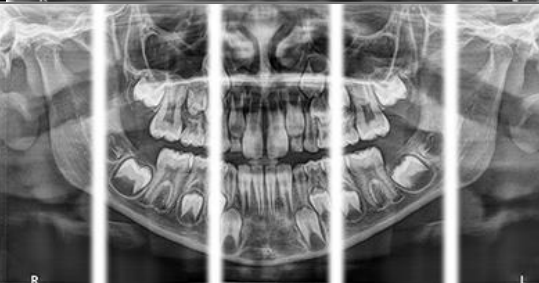
Pediatric program

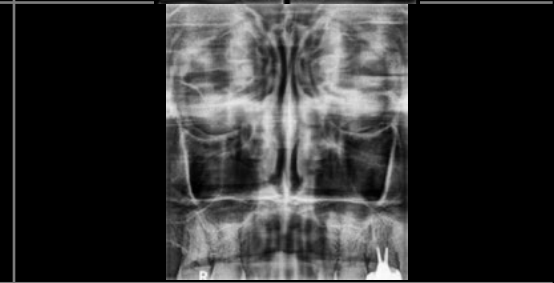Segmented program
Panoramic without TMJ

Segmented bitewing

TMJ x4

TMJ x2

Maxillary sinus
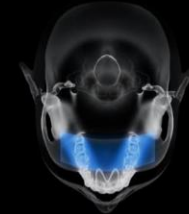
Segmented Bitewing

- 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
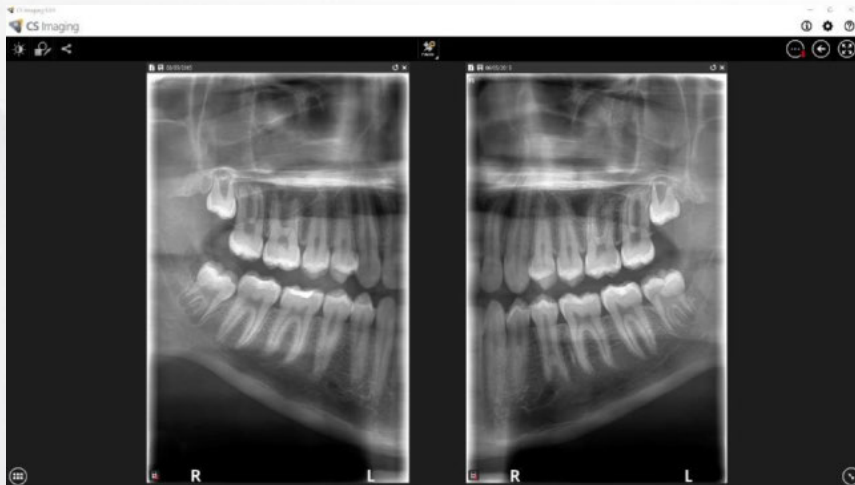
Award-winning Design

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

CS 8100 3D — 33 CM

CS 8100 3D — 93,6 CM

CS 8100SC 3D — 184 CM
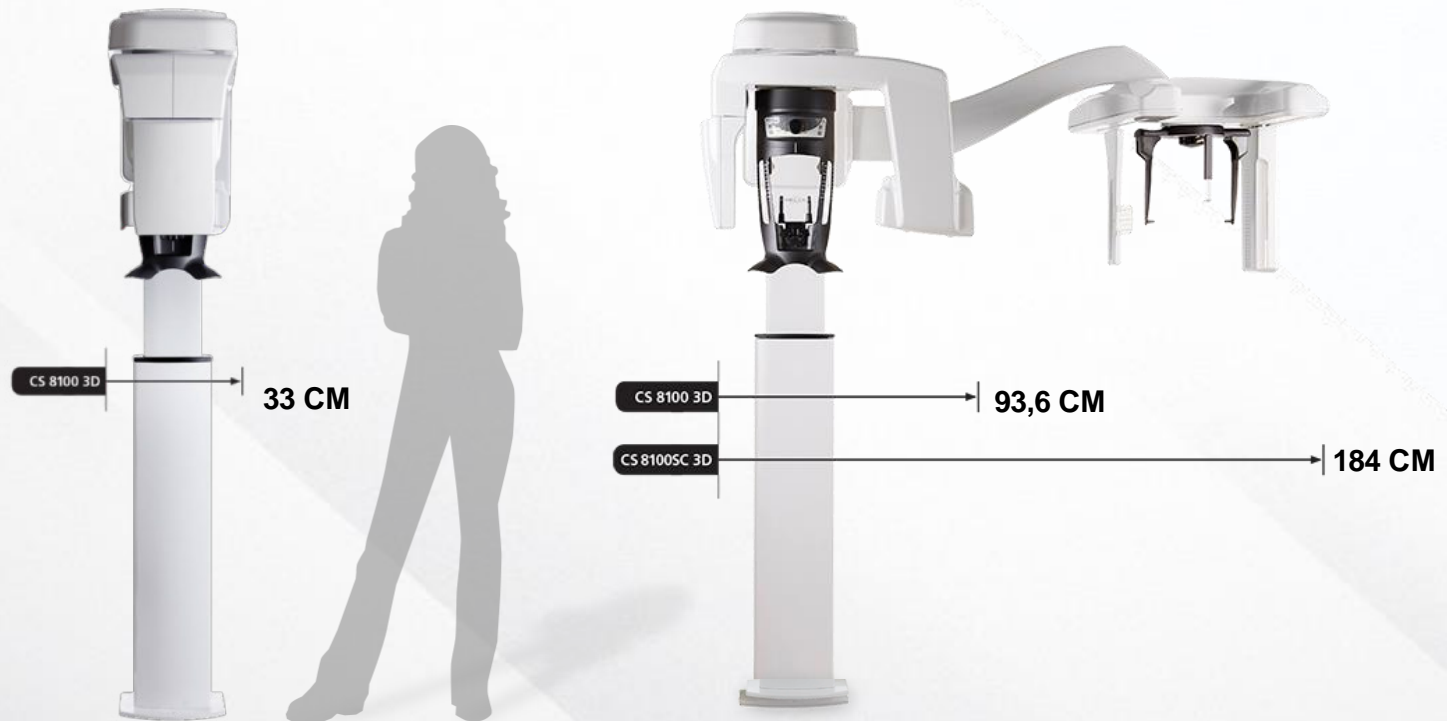
Optimized Positioning

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.
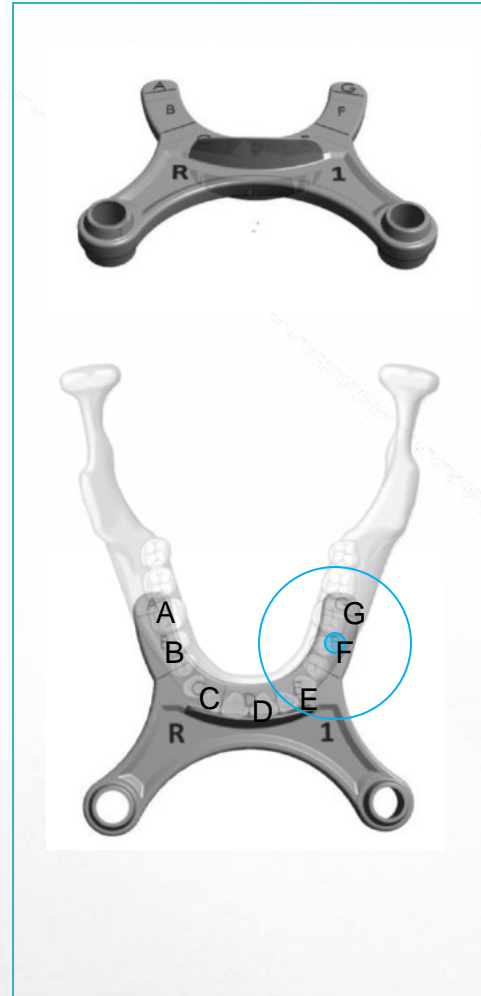
Smart bite blocks facilitate patient placement and reduce the risk of positioning errors and retakes.

Adjustable for Patients of all Sizes

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

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Unrivalled Ease of Use

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

1 **Select preset program**
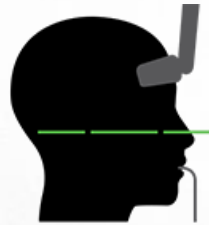
2 **Position the patient– no need for laser beams**

3 **Take the X-ray**

4 **Review the image**

Adapt 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.

One Stop-access to All Your Images

CS IMAGING VERSION 8 SOFTWARE

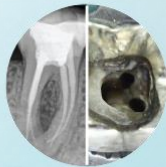INTRAORAL IMAGING

EXTRAORAL IMAGING

CBCT IMAGING

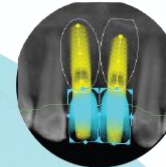**CS IMAGING** VERSION 8

3D APPLICATIONS

DIGITAL IMPRESSION

CAD/CAM
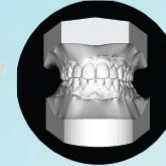
Cephalometric Imaging

CS 8100SC 3D

- Enhanced image processing
- Auto-tracing in 10 seconds

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CS 8100SC 3D

KEY FEATURES

Scanning in only 3 seconds

Automatic tracing* in 10 seconds
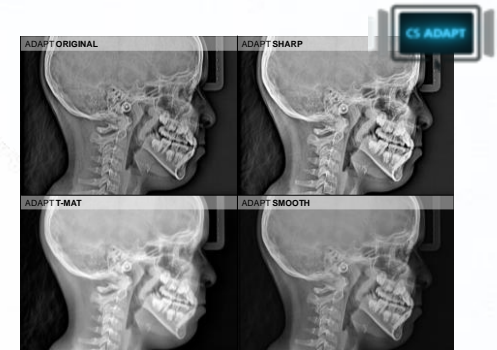
Orthodontic pre-set filters
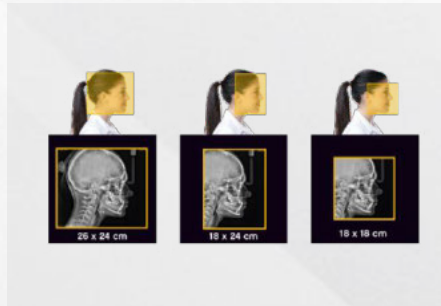
Wide range of fields of view
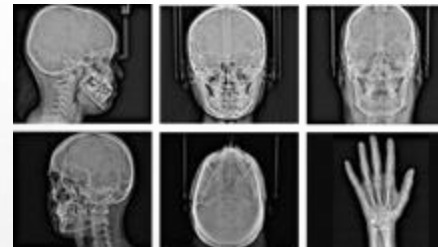
Full range of projections

* 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*
- Reduced 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

ORIGINAL FILTER

NEW FILTER
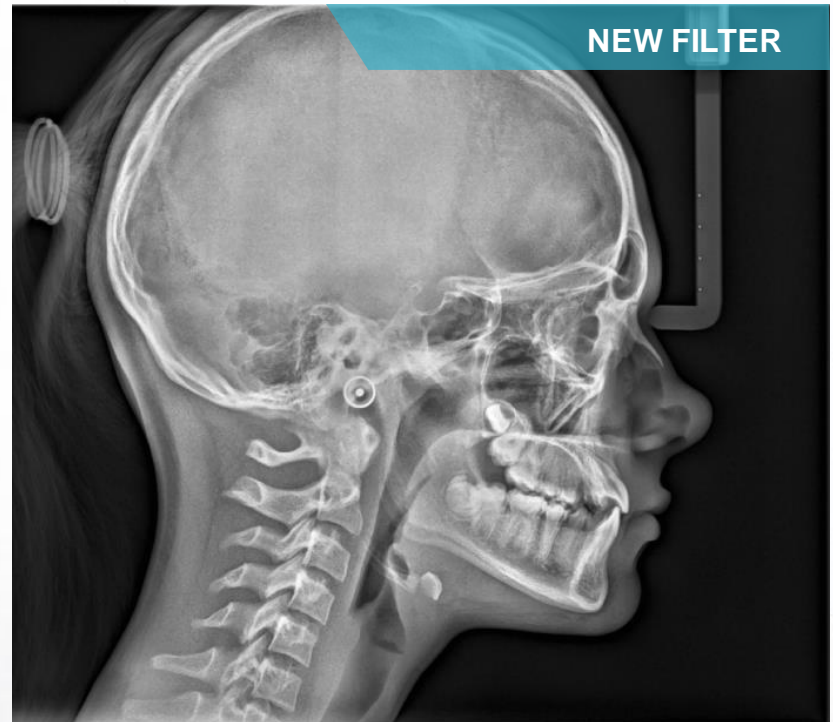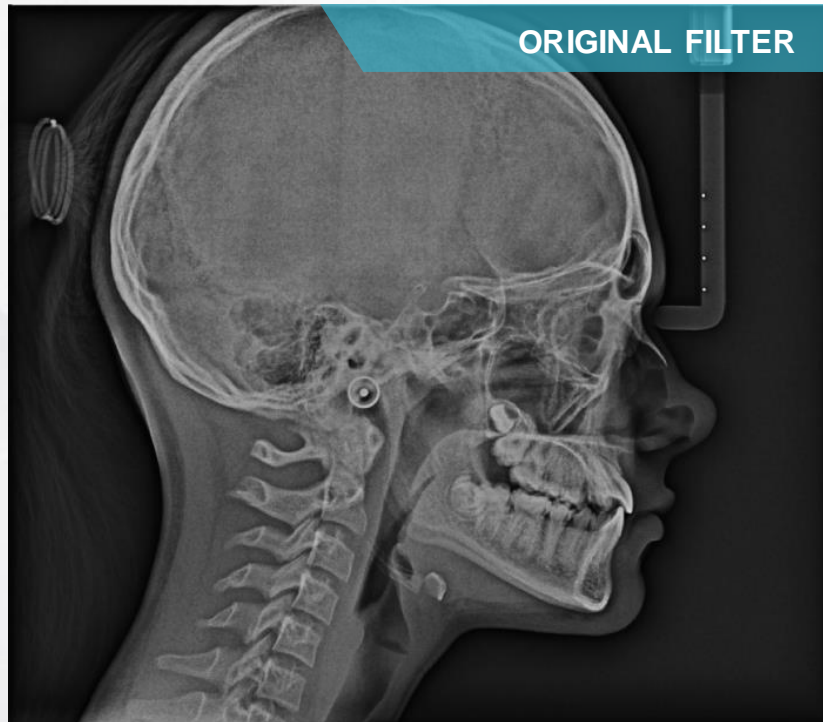
Orthodontic Pre-set Filters

- 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 who treat a lot of children

26 x 24 cm

For cranial exams

18 x 24 cm

Standard format

18 x 18 cm

**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)
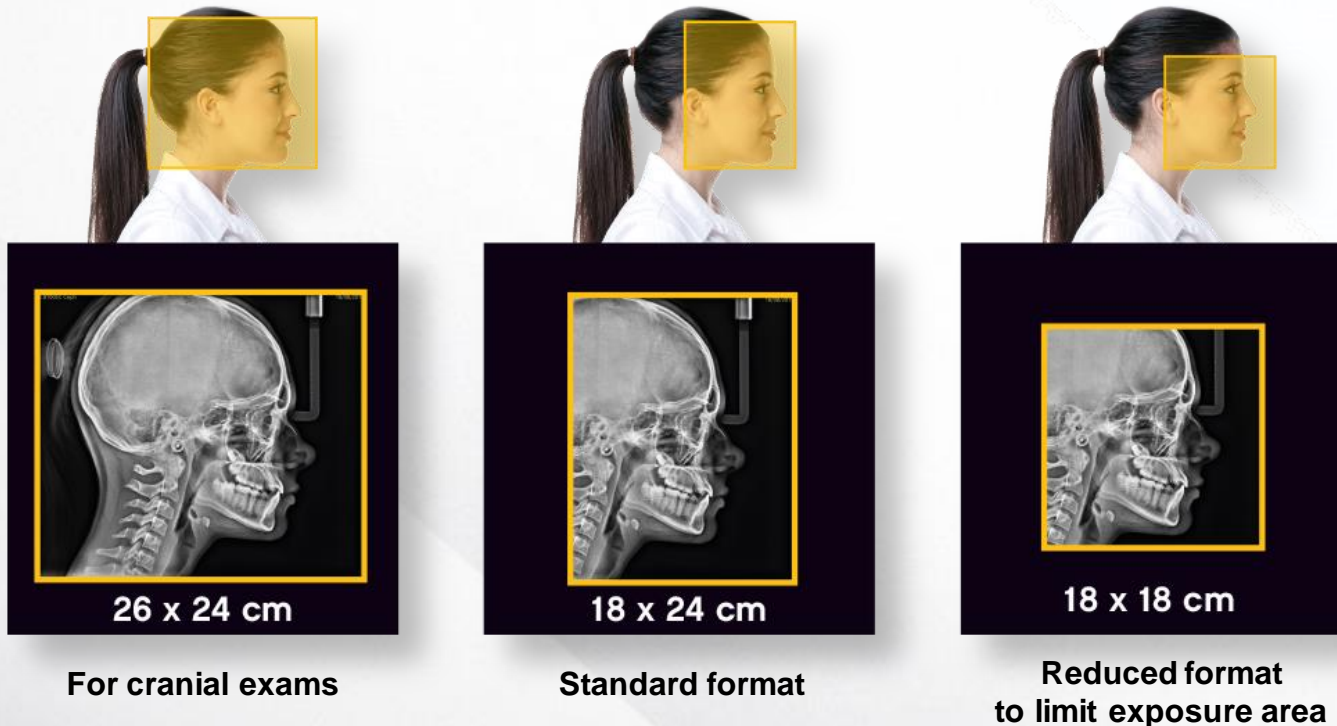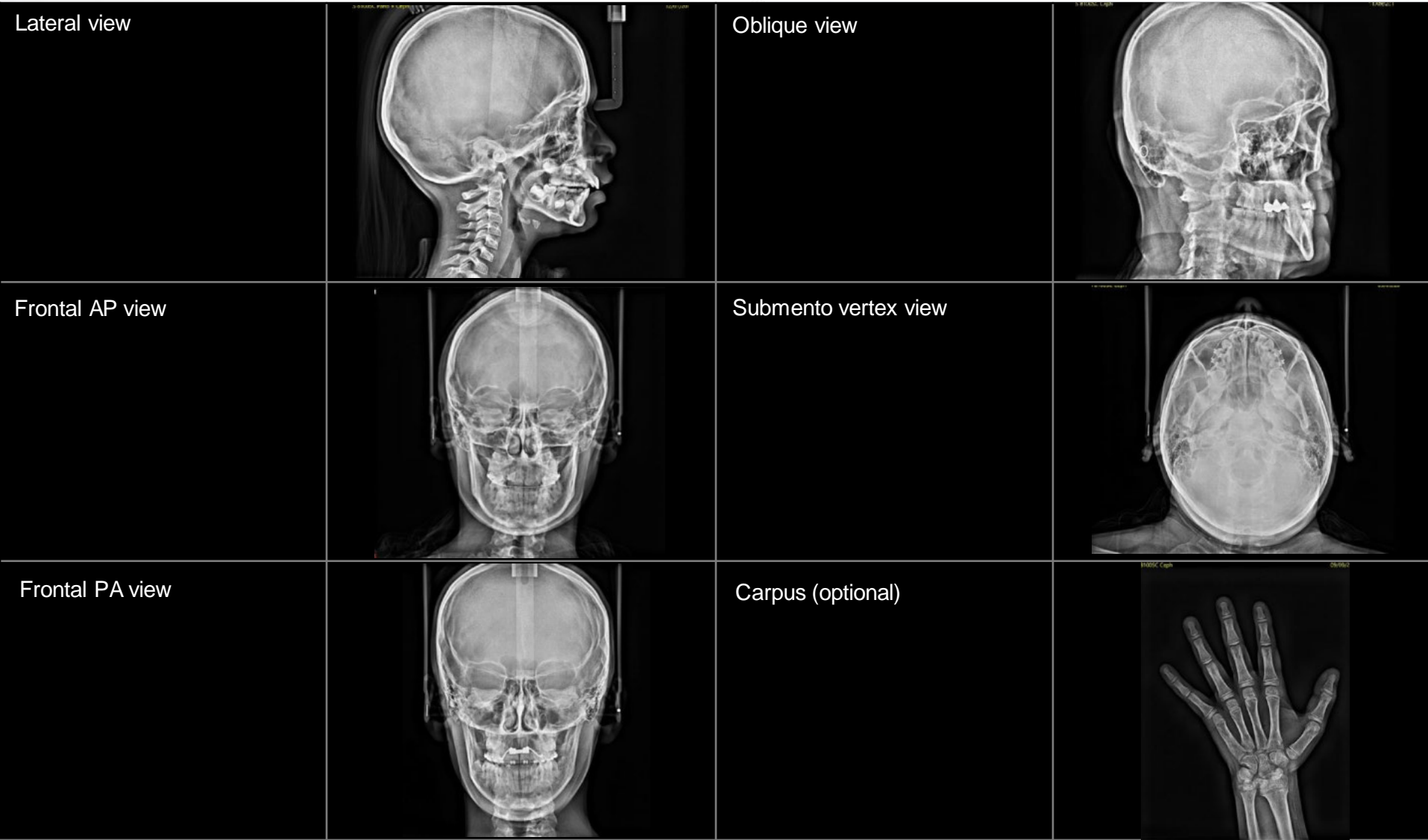
Our Extraoral Portfolio

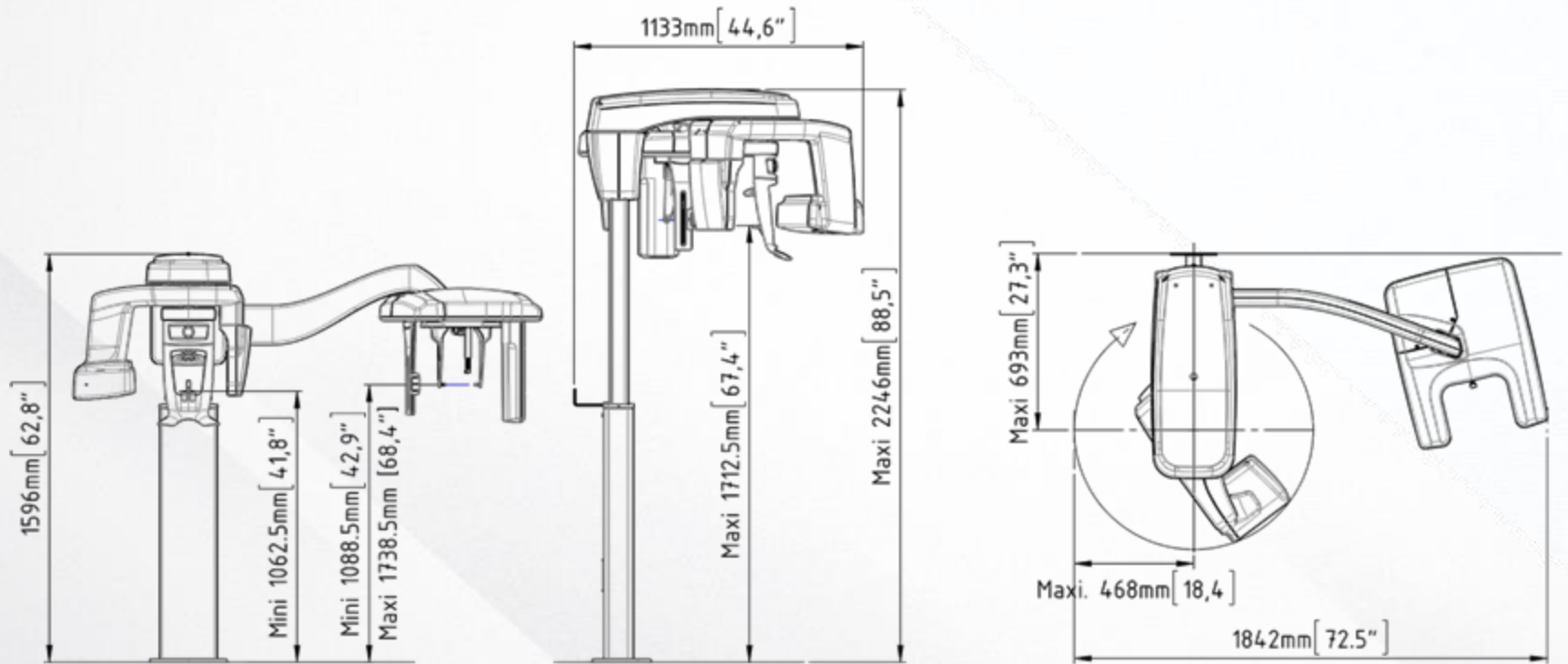|	CS 8100 / CS 8100SC	CS 8100 3D / CS 8100SC 3D	CS 9600 12x10 Edition	CS 9600 16x10 Edition	CS 9600 16x17 Edition
FOVs (CBCT)	-	4 FOVs available: 4 x 4 cm to 8 x 9 cm	10 FOVs available: 4 x 4 cm to 12 x 10 cm	12 FOVs available: 4 x 4 cm to 16 x 10 cm	14 FOVs available: 4 x 4 cm to 16 x 17 cm
Tomosharp panoramic 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 Periodontics Orthodontics	General practice Endodontics Implant Oral surgery Periodontics	Implant Oral surgery Periodontics	Oral and maxillofacial surgery Orthodontics Radiology centers Hospitals ENT

* Option

Unit Dimensions

CS 8100 3D
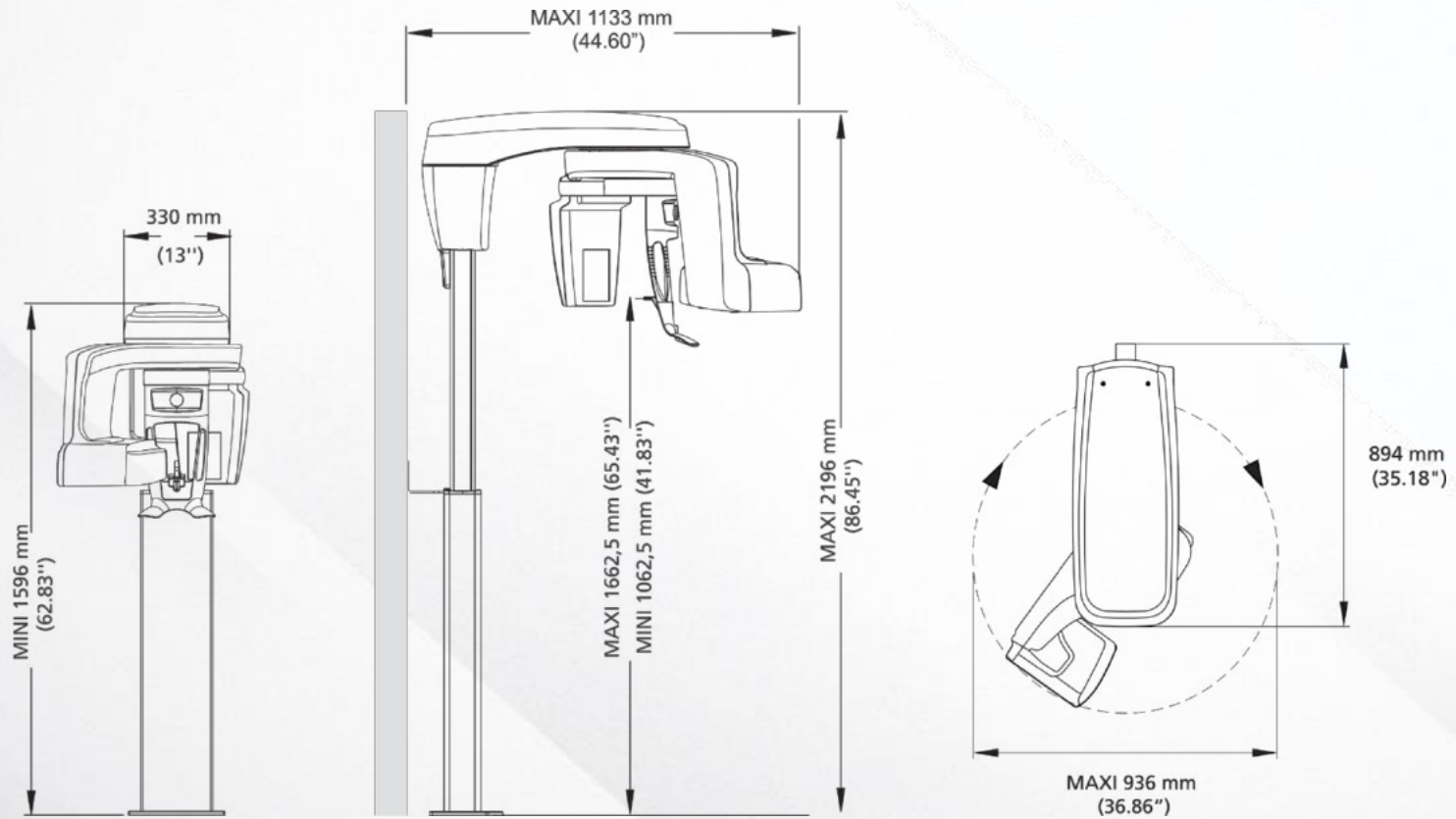
Unit Dimensions

CS 8100SC 3D

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*
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 15 sec

Thank You