

Welcome to the **simplicity** of **sophisticated imaging**



Introducing the **new CS 8100** family

CS 8100 THE SIMPLICITY OF
COMPACT PANORAMIC IMAGING



CS 8100SC HIGH QUALITY
CEPHALOMETRIC IMAGES **IN SECONDS**



[Workflow integration]

[Humanized technology]

[Diagnostic excellence]

CS 8100

THE SIMPLICITY OF COMPACT
PANORAMIC IMAGING



CS 8100 Panoramic System

The advantages at a glance

- Effortless, high-quality digital results
- Outstanding value for the money
- Sleek, ultra-compact, and elegant
- “Plug-and-Pan” solution: Easy to install and use
- Upgradable to 3D imaging*



reddot design award
winner 2013

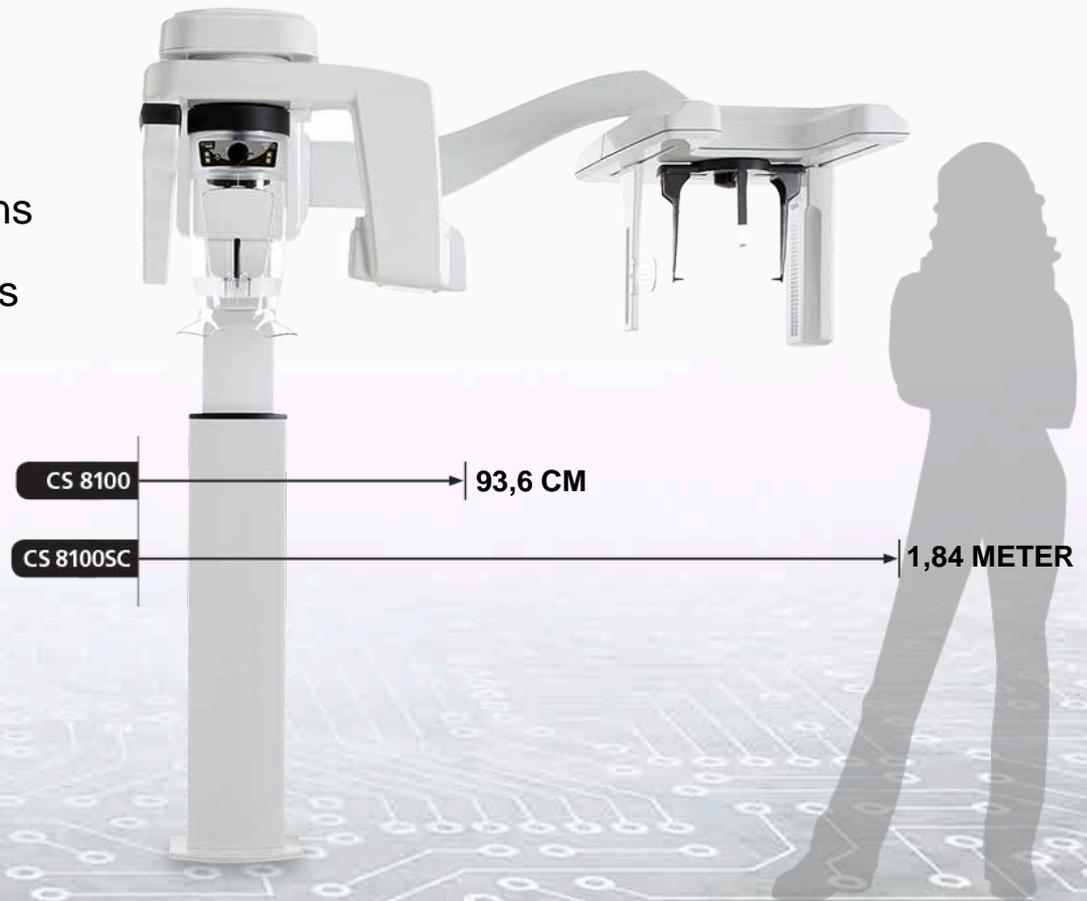
* Not available for units with cephalometric option



Award-winning design

[Workflow integration]

- Sleek, elegant and discreet
- Fits tight spaces
- 33 cm width in resting position
- Offers versatile installation options
- Design that appeals to both users and patients alike





Compact design

[Workflow integration]

- Miniaturized X-ray generator and sensor
- Horizontal design of the X-ray generator
- Thin, lightweight and robust aluminum body
- Simplified mechanical construction
- Reliable and easy to service





A better panoramic experience

[Workflow integration]

- Convenient face-to-face positioning
- Unique transparent patient support
- Open design for enhanced comfort of patients
- 10-second acquisition time for fast examination
- Quiet operation for better patient experience





[Workflow integration]

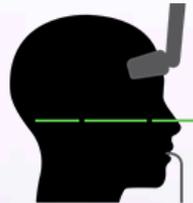
Streamlined workflow

Few simple steps for a real-time diagnosis

1 Select the program



2 Position the patient



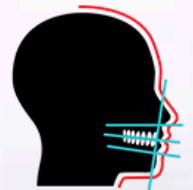
3 Take the X-ray



4 Review the image



5 Get the tracing
(only for cephalometry)

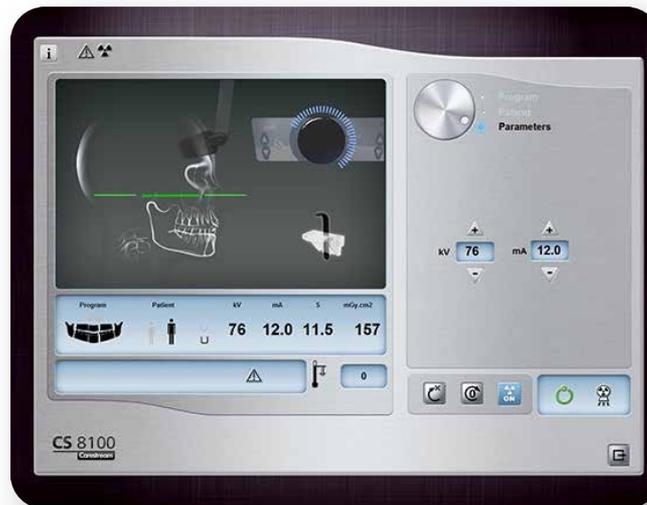




[Workflow integration]

Quick and easy operation

- Intuitive user interface for fast and easy exams
- Preset programs minimize setup time and reduces errors
- Clear instructions help prevent common positioning mistakes
- Flexible settings when required





A perfect fit for all patients

[Humanized **technology**]

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





Innovative head support

[Humanized technology]



1 Height adjustment



2 Adjustable forehead support



3 Frankfort plane adjustment



4 Midsagittal & Frankfort planes landmarks



5 Stable chin support



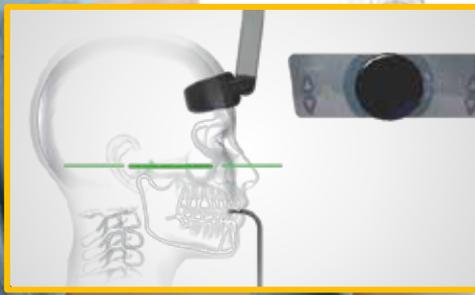
6 Integrated handgrips





Frankfort plane alignment

[Humanized technology]



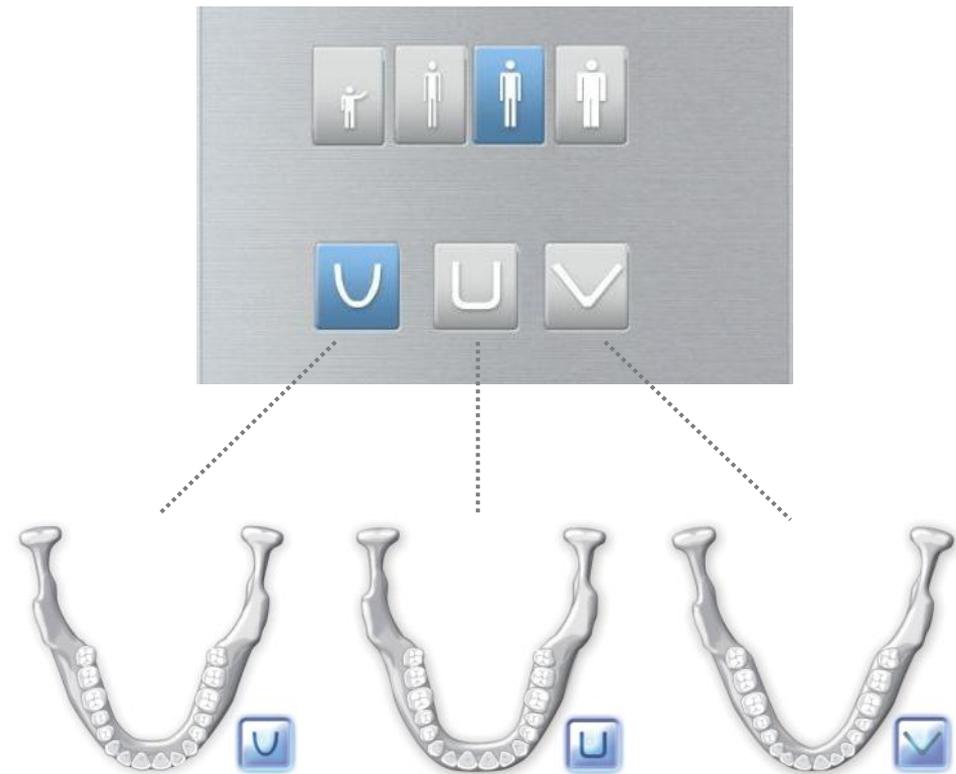


Anatomical programs

[Humanized **technology**]

12 anatomical settings adapt to patient's morphology and jaw shape

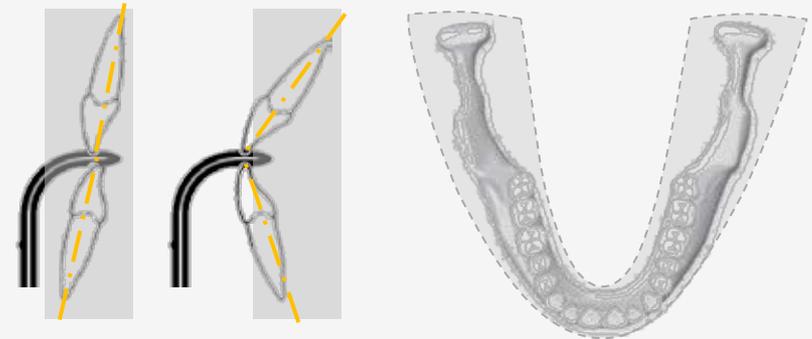
- 4 patient morphologies
- 3 jaw shapes



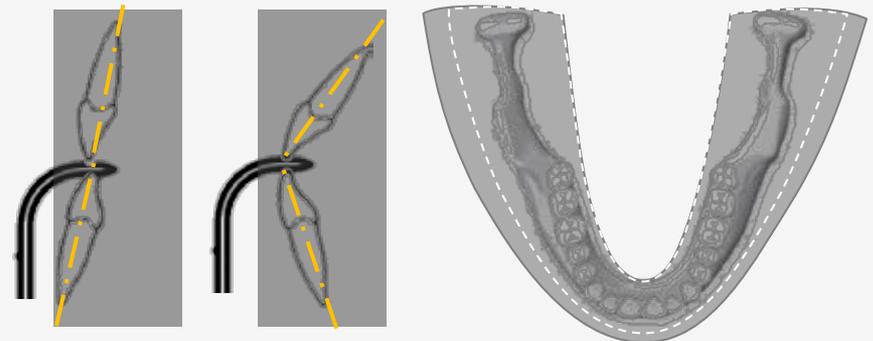


[Humanized technology]

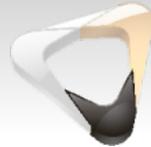
Enhanced focal trough



Traditional focal trough: Focal trough can be quite narrow in the anterior region making positioning critical in obtaining a quality radiograph



Enhanced focal trough: The increased focal trough thickness in the anterior region makes it easier to place the teeth into the sharpness area, providing a greater tolerance to imperfect positioning and challenging anatomy

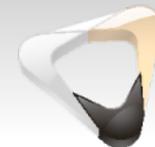


[Diagnostic **excellence**]

Small yet powerful

- High frequency X-ray generator for constant radiation and optimal contrast
- 0.5 focal spot for exceptional detail
- Latest generation of CMOS sensor for sharp digital images
- Fast acquisition time minimize risk of patient motion
- Algorithm minimizes spinal column shadow
- CS Adapt module delivers impressive image clarity

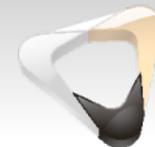




Clinical results

[Diagnostic excellence]





Clinical results

[Diagnostic excellence]



CS Adapt module

Software that makes a clear difference

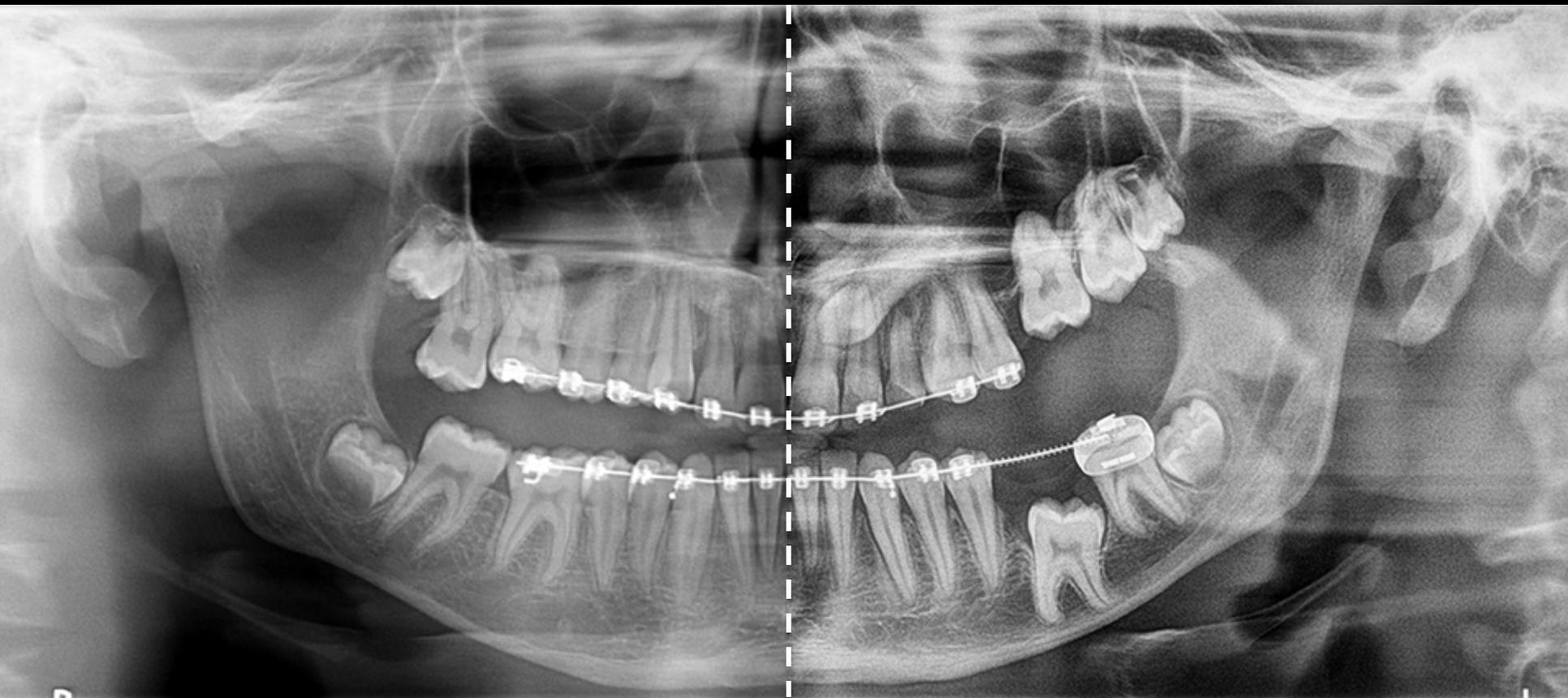


- State-of-the-art image processing
- Impressive image clarity
- Choose and define your own image look and feel



CS Adapt module

Software that makes a clear difference



This filter prevents the creation of dark halos around radio-opaque areas (amalgam, implant...)

ADAPT ORIGINAL



ADAPT T-MAT



ADAPT SHARP



ADAPT CONTRAST



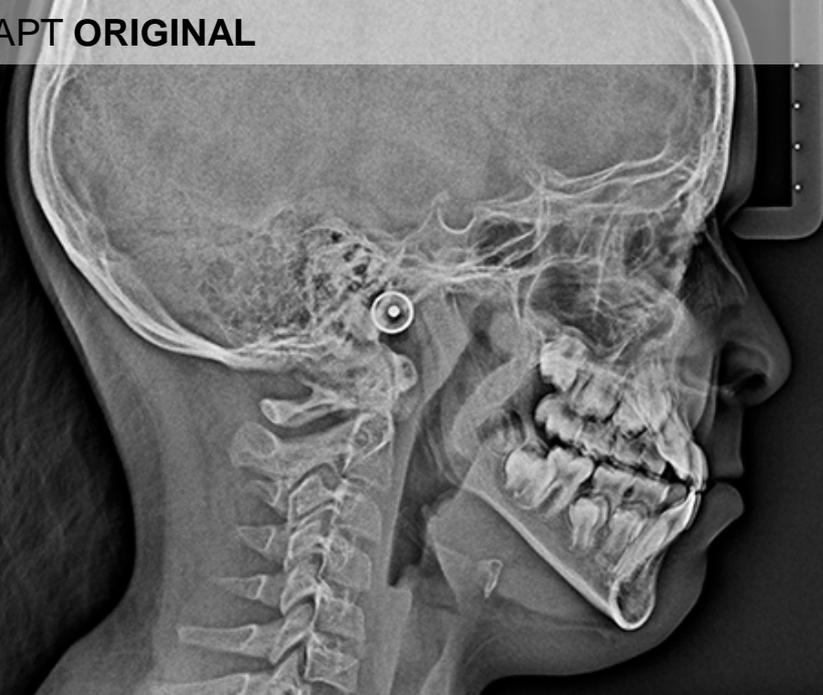
ADAPT DYNAMIC



ADAPT SMOOTH



ADAPT ORIGINAL



ADAPT SHARP

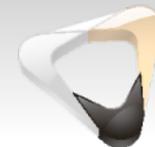


ADAPT T-MAT



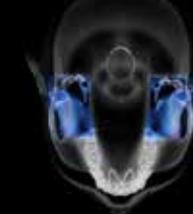
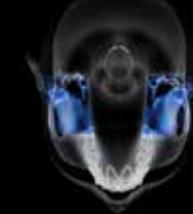
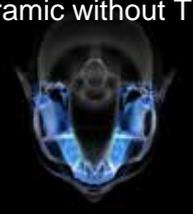
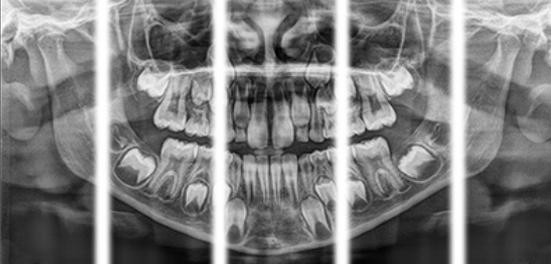
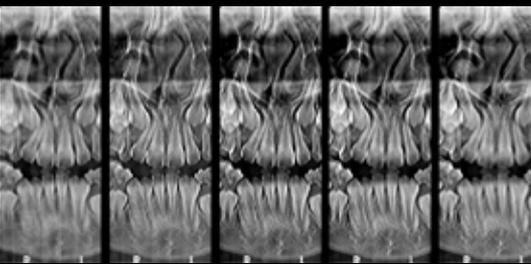
ADAPT SMOOTH

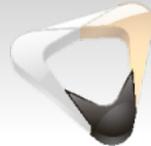




Panoramic programs

[Diagnostic excellence]

<p>Standard panoramic</p> 		<p>TMJ x4</p> 	
<p>Pediatric program</p> 		<p>TMJ x2</p> 	
<p>Segmented program Panoramic without TMJ</p> 		<p>Maxillary sinus</p> 	
<p>Segmented bitewing</p> 		<p>2D+ - Thin slicing</p> 	



[Diagnostic **excellence**]

Segmented bitewing program

- Produces bitewing like images for caries detection
- Acquires two segments of the arch, from the first premolar to the last molar
- Uses a specific trajectory to reduce teeth overlap
- Can be used when an intraoral bitewing cannot be performed



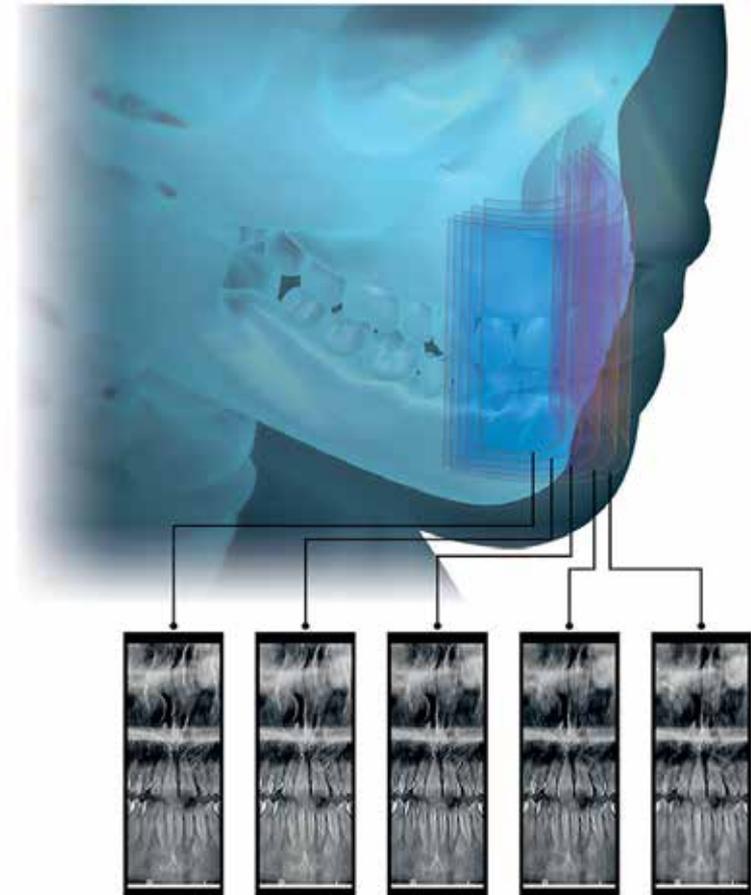
Results obtained with segmented bitewing program cannot be equivalent to a true intraoral bitewing examination



Exclusive 2D+ program

[Diagnostic **excellence**]

- Thin slicing exploration
- Focuses on one area of interest
- Creates thin slices along the jaw at regular intervals
- Allows Buccal/Lingual exploration
- Applications
 - Locate anatomical position of supernumerary teeth and impactions
 - Identify apical lesions within a specific anatomic slice for enhanced diagnosis
 - Identify the root relationship to the inferior alveolar canal
 - Explore the extent of intraosseous pathology through specific anatomic slices
 - Enhanced visualization of morphological variations in maxillary sinus anatomy

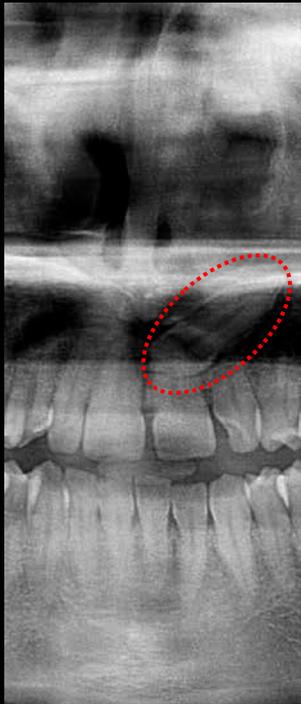




[Diagnostic excellence]

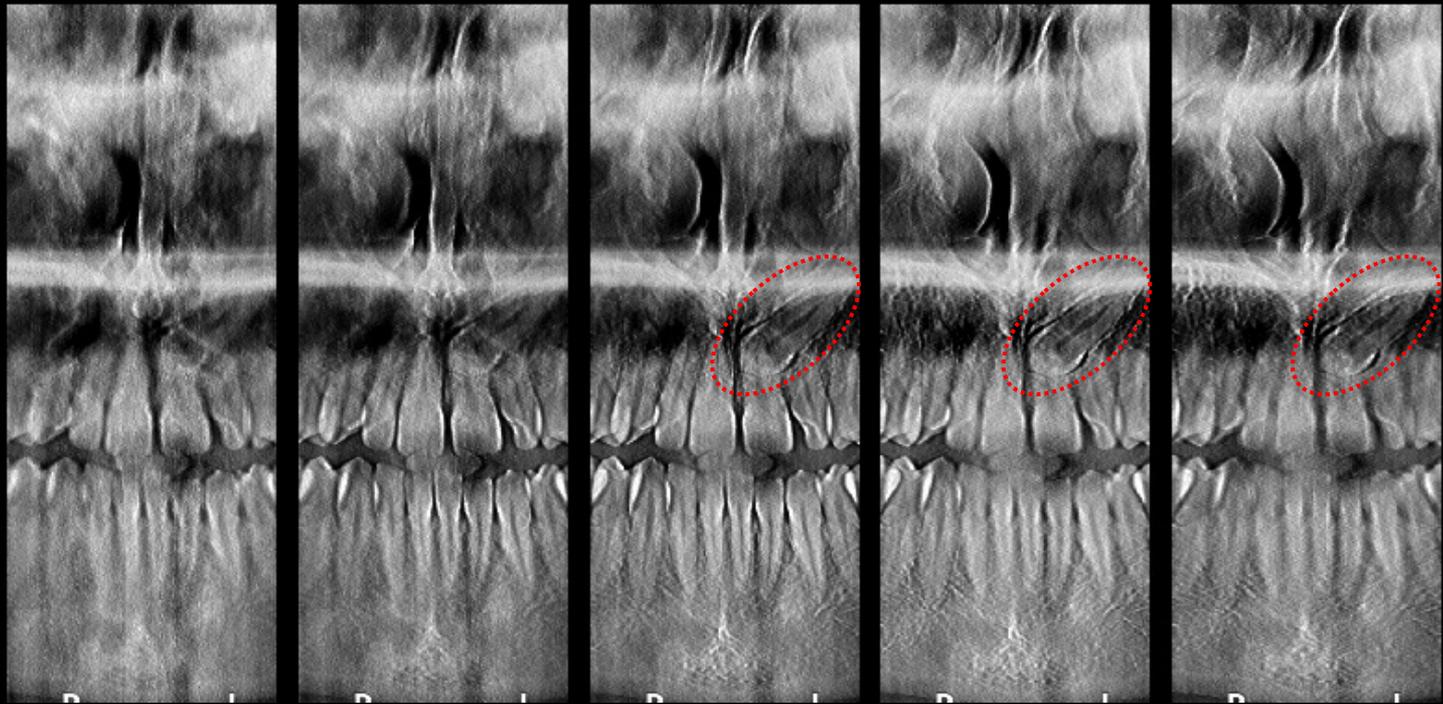
2D+: Clinical case

Panoramic exam*



* Cropped image

2D+ exam



Labial

Palatal



Panoramic image shows an impacted canine in the maxillary anterior with unknown relationship to adjacent erupted teeth. **2D+ images**, when moving to palatal slices, demonstrate a palatal position of the impacted canine.

CS 8100SC

YOUR PATIENTS MOVE
FAST, SO WE SCAN FASTER



CS 8100SC

THE WORLD'S
FASTEST SCANNING
CEPHALOMETRIC UNIT



CS 8100SC

Outstanding images at record-breaking speed

The advantages at a glance

- **Scanning in record time**
Fastest ceph scanning in the world*
- **Exclusive automatic tracing software**
Full tracing within 90 seconds**
- **CS Adapt module**
Impressive image clarity and customizable look and feel
- **Ultra-compact design**
One of the smallest unit in its category



*18 x 24 cm lateral image in fast scan mode

** 18 x 24 cm image



Record time scan

- Quick mode available on all fields of view
- Scan an 18 x 24 cm image in as little as 3 seconds*
- Reduced risk of motion blur and patient dose



*18 x 24 cm lateral image in fast scan mode

Record time scan

The fastest scanning ceph in the world

	Vendor A	Vendor B		CS 8100SC	
	Without quick mode	Without quick mode	With quick mode	Without quick mode	With quick mode
Standard format (18 x 24cm or equivalent)	10 sec.	9.4 sec.	4.7 sec.	7 sec.	3 sec.
Cranial format (26 x 24cm or equivalent)	15 sec.	14.9 sec.	7.5 sec.	10 sec.	4.3 sec.

Scanning speed comparison between the CS 8100SC and leading systems on the market.

Ultra compact

- Fits easily into any practice
- Just 1.8 meters width (72.5 in.)
- One of the most compact unit in its category



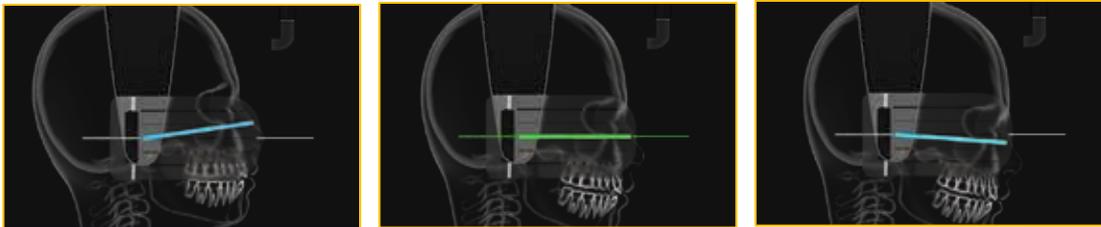
Two sensors are better than one

- Two built in sensors as a standard – one for each modality
- No need to changeover sensor between exams
- No risk of damage the sensors



User and patient friendly design

- Fast and accurate patient positioning
- Quick and comfortable exam for the patient
- Intuitive user interface for fast and easy exams
- Automatic alignment of X-ray unit with the sensor



Exclusive automatic tracing

- True automatic tracing in just 90 seconds*
- Automatically recognizes anatomical landmarks and traces structures
- Covers most common analysis needs (Ricketts, MacNamara, Steiner, Tweed...)
- Function to personalize tracing and create templates
- Tracing print and export to other software



* With 18 x 24 cm image

Orthodontic pre-set filters

- Enhance visualization of bone, soft tissue or optimize contrast with just one click



Optimized contrast
for a primary image analysis



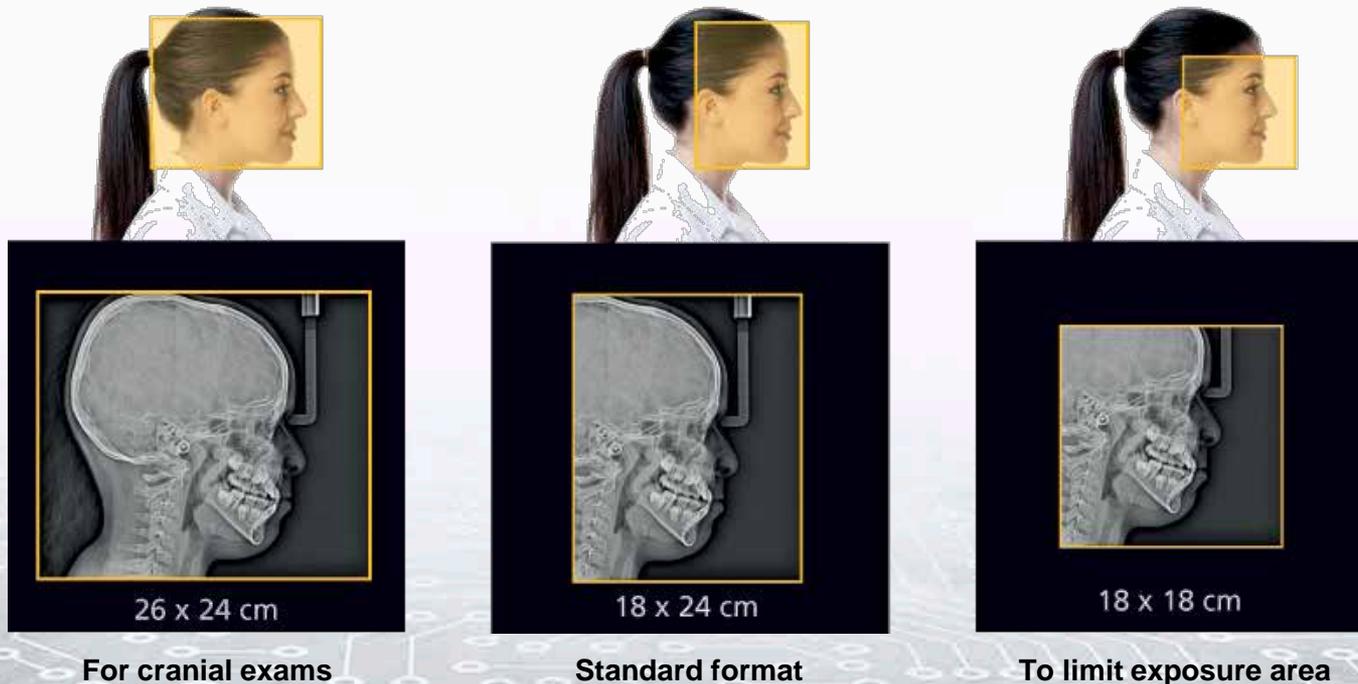
Bone density enhancement
for clear visualization of bone and
cartilage



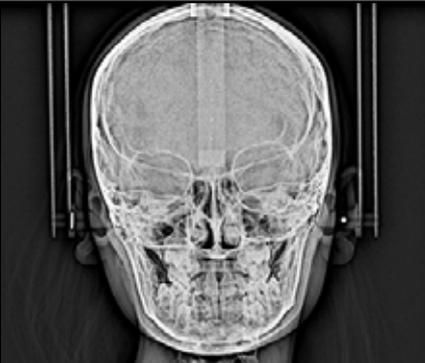
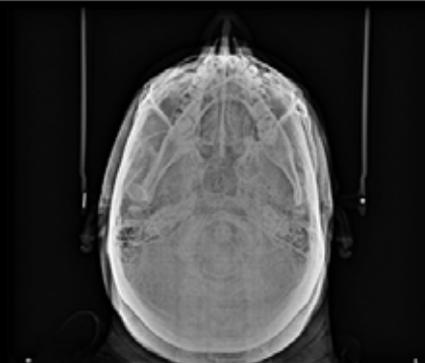
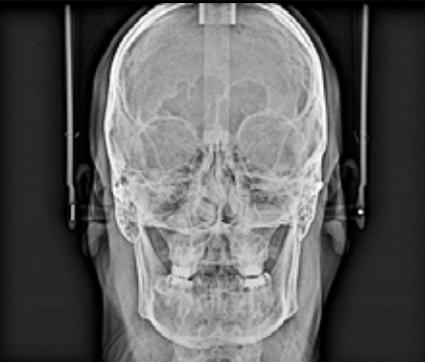
Edges enhancement
for uniform gray shades on hard
and soft tissue for a fast tracing

Wide range of fields of view

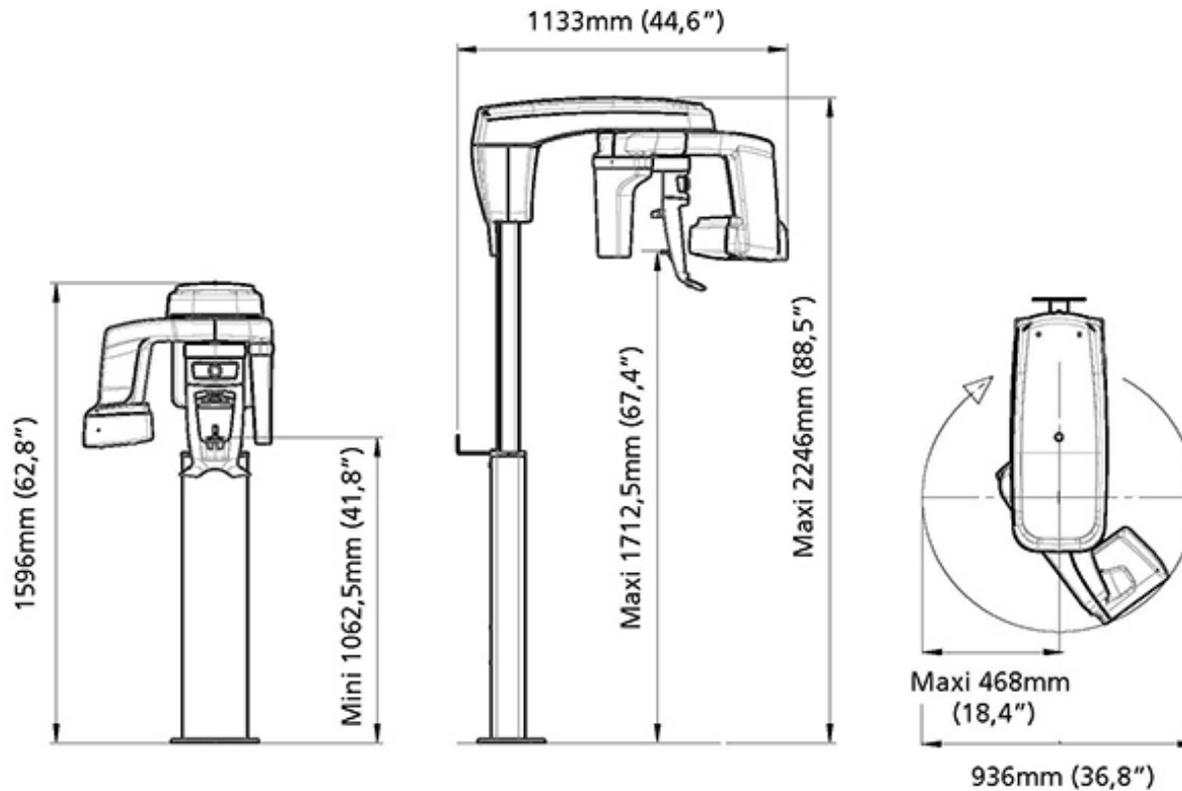
- Selectable fields of view to meet all your daily needs
- Exposure area can be reduced for better patient protection
- Ideal for practices who treat a lot of children



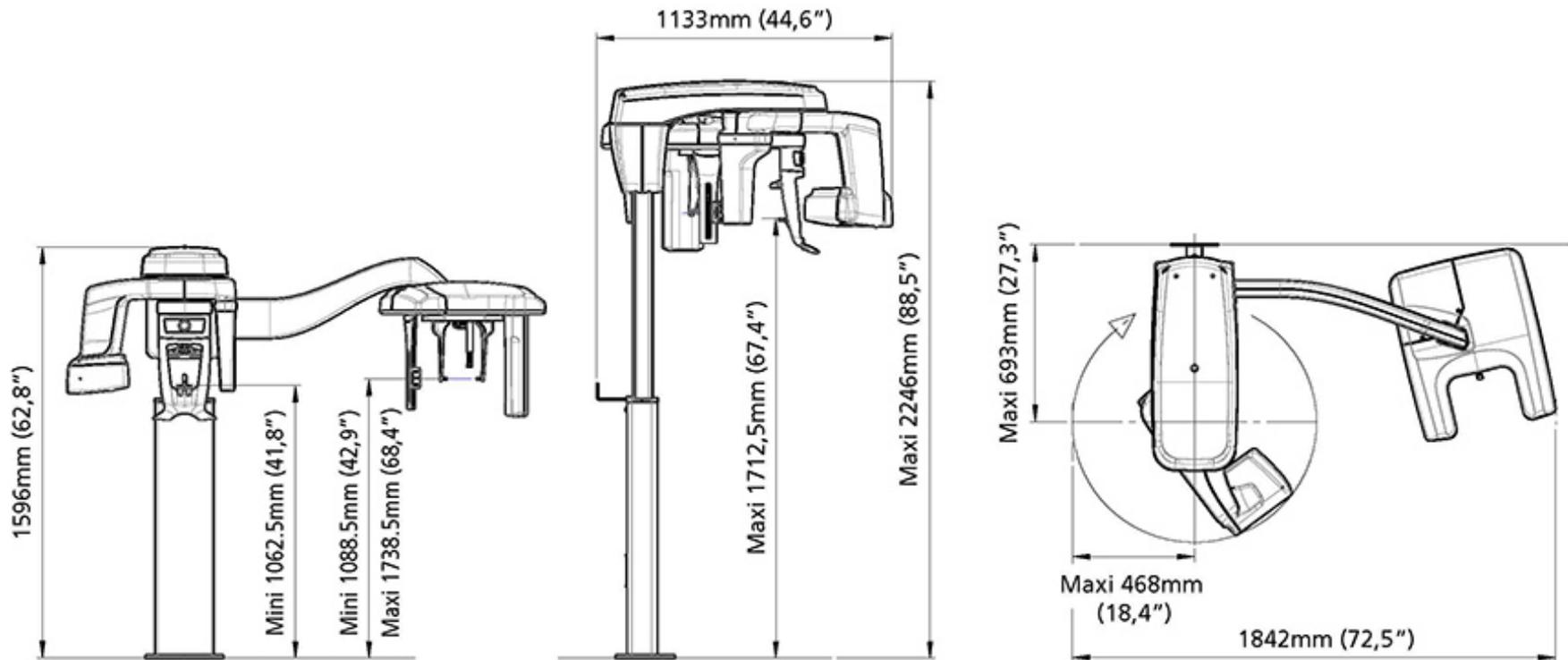
Cephalometric programs

<p>Lateral view</p>		<p>Oblique view</p>	
<p>Frontal AP view</p>		<p>Submento vertex view</p>	
<p>Frontal PA view</p>		<p>Carpus (optional)</p>	

CS 8100 Unit dimensions



CS 8100SC Unit dimensions



CS 8100 / CS 8100SC Technical specifications

Tube voltage	60 - 90 kV	
Tube current	2 - 15 mA	
Frequency	140 kHz	
Tube focal spot	0.5 mm (IEC 60336)	
Total filtration	> 2.5 mm eq. Al	
Input voltage (AC)	100 - 240 V 50/60 Hz	
Unit dimensions	Without ceph arm: 330 (L) x 936 (D) x 1596 (H) mm With ceph arm: 1842 (L) x 936 (D) x 1596 (H) mm	
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: 72 kg (158 lb.) With ceph arm: 107 kg (236 lb.)	
	Panoramic Modality	Cephalometric Modality
Sensor technology	CMOS	CMOS
Image field	64 x 1312 pixels / 6.4 x 120 mm (pediatric)*	6.4 x 263.3 mm
Gray scale	4096 - 12 bits	16384 - 14 bits
Magnification	1.2 (\pm 10%)	1.13 (\pm 10%)
Radiological exam options	Full panoramic, segmented panoramic, maxillary sinus, LA TMJ x 2, LA TMJ x 4, 2D+**	Lateral, frontal AP or PA, oblique, submento-vertex, carpus (optional)
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)
Exposure time	2 to 12.5 seconds	3 to 10 seconds

* Not available on CS 8100 / CS 8100 Access

** Not available on CS 8100 Access / CS 8100SC Access

