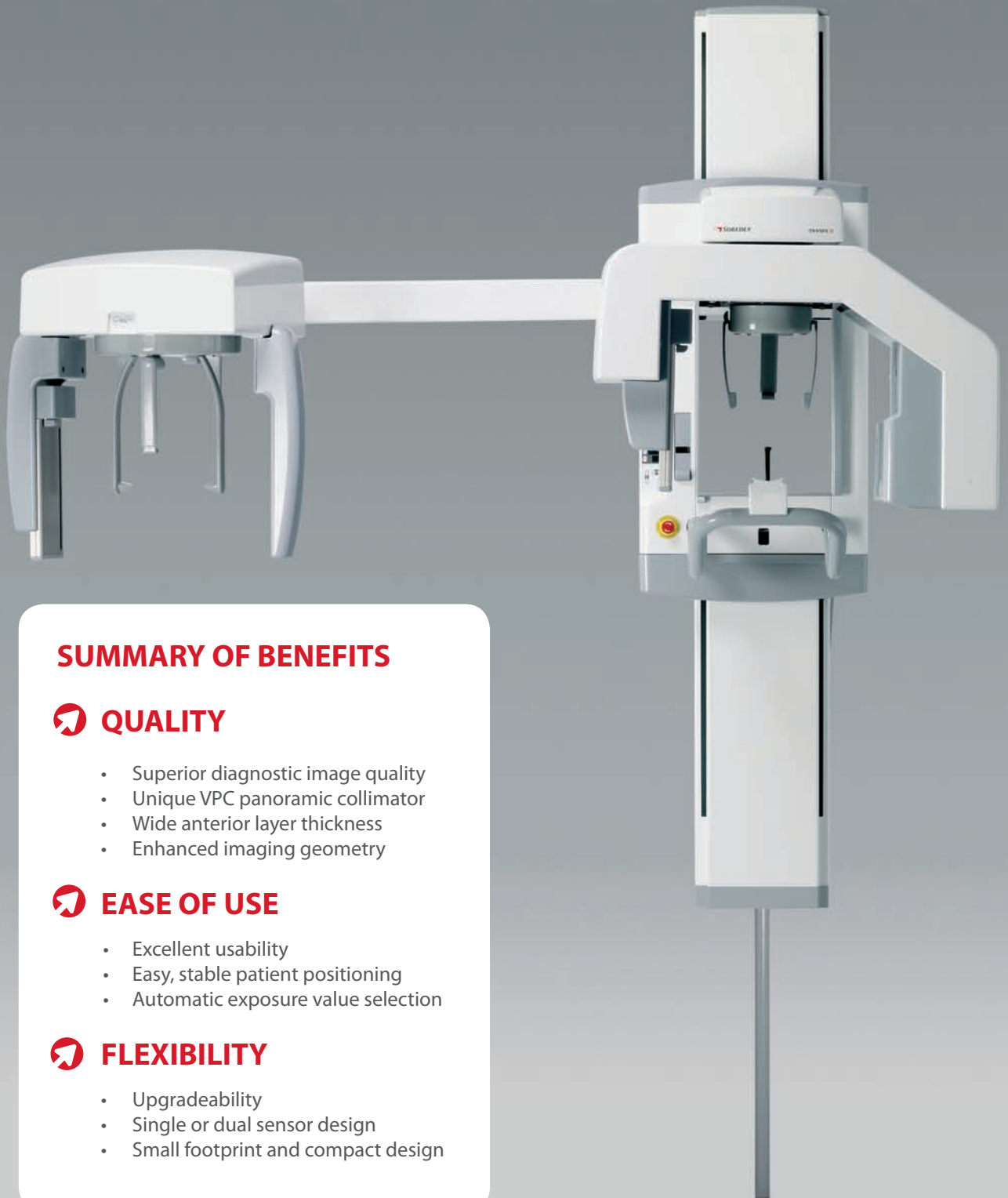


 **SOREDEX**

CRANEX[®] D

QUALITY – EASE OF USE – FLEXIBILITY
Digital panoramic X-ray unit

Digital imaging made easy



SUMMARY OF BENEFITS

QUALITY

- Superior diagnostic image quality
- Unique VPC panoramic collimator
- Wide anterior layer thickness
- Enhanced imaging geometry

EASE OF USE

- Excellent usability
- Easy, stable patient positioning
- Automatic exposure value selection

FLEXIBILITY

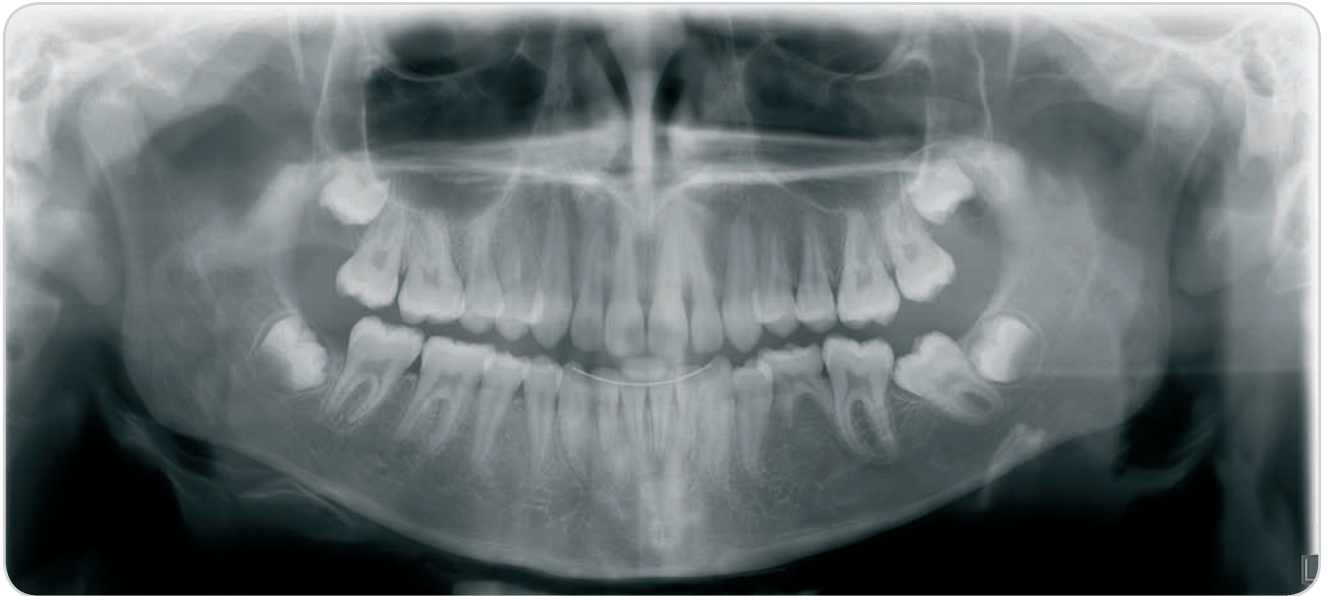
- Upgradeability
- Single or dual sensor design
- Small footprint and compact design

SOREDEX® has over 30 years of expertise in state-of-the-art dental imaging systems. The CRANEX® D – a direct digital panoramic and cephalometric X-ray system – is the high-end unit of the famous CRANEX® family.



True diagnostic value

CRANEX® D's excellent signal-to-noise ratio, high resolution, wide dynamic range, wide anterior layer thickness and many other features provide superior image quality and more diagnostic value.



Enhanced cephalometric imaging geometry

The CRANEX® D features advanced cephalometric imaging movements that provide a true central projection image. This results in non-distorted constant magnification in both the vertical and horizontal planes.



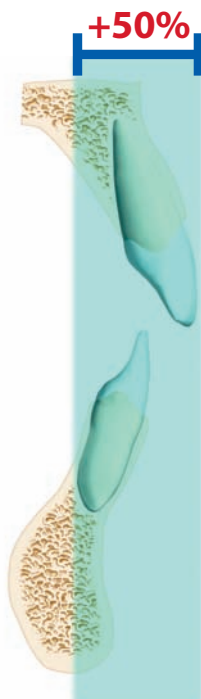
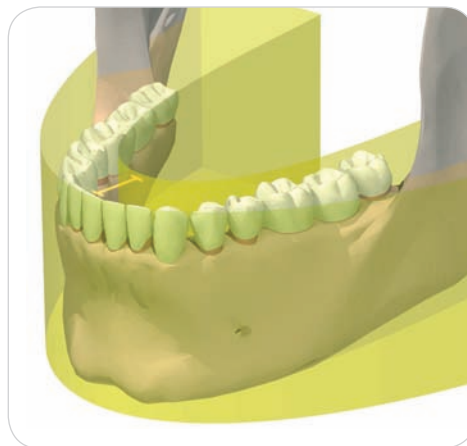
QUALITY – EASE OF USE – FLEXIBILITY

The unique Variable Panoramic Collimator (VPC) is one of the keys to the outstanding panoramic image quality of the CRANEX® D. By narrowing the width of the collimator while imaging the anterior teeth, we are able to expand the focal trough by 50% compared to conventional fixed collimation. The advantage is superb anterior image quality regardless of the patient's dentition.



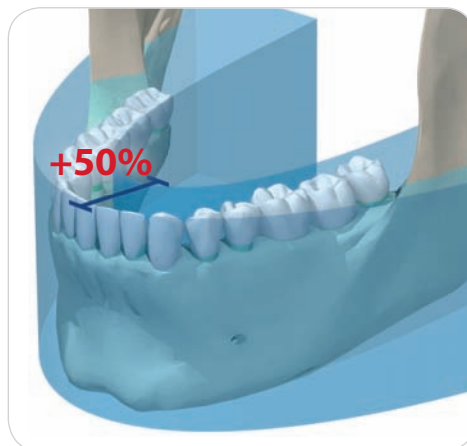
Typical panoramic system

- Most panoramic systems have a narrow anterior layer thickness, which leads to difficulty in positioning all of the patient's dentition within the focal trough.



CRANEX® D

- CRANEX® D's anterior layer thickness is 50% wider than traditional techniques. The result is superb anterior image quality.



Quick and easy-to-use



QUALITY – EASE OF USE – FLEXIBILITY

11 second fast scan – 17 second HiQ scan

Superb panoramic image quality with fast panoramic programs.

- Adult program in 11 seconds
- Pediatric program in 8,6 seconds
- Especially suitable for follow-up patients and in busy clinics

Even better high quality images achieved with High Quality (HiQ) panoramic programs.

- Adult program in 17 seconds
- Pediatric program in 13,8 seconds
- Especially suitable for complicated diagnostic cases

Easy-to-use control panel

- Imaging program selection
- Exposure value selection
- Fast and High Quality panoramic program
- Same selections available in the Graphical User Interface of the computer
- All needed settings visible



Patient positioning made easy

Patient positioning

- 3 positioning lights for accurate positioning
- 4-point head support for patient stability
- Open design for accessibility



QUALITY – EASE OF USE – FLEXIBILITY

Optimal image quality can only be achieved if the patient is positioned correctly and held stationary during imaging. CRANEX® D's three positioning lights, swivel mirror and 4-point head support help you to attain the needed optimal image quality for your diagnostic purposes. The open design and the unique column increase patient comfort and allow easy access for handicapped or wheelchair bound patients.

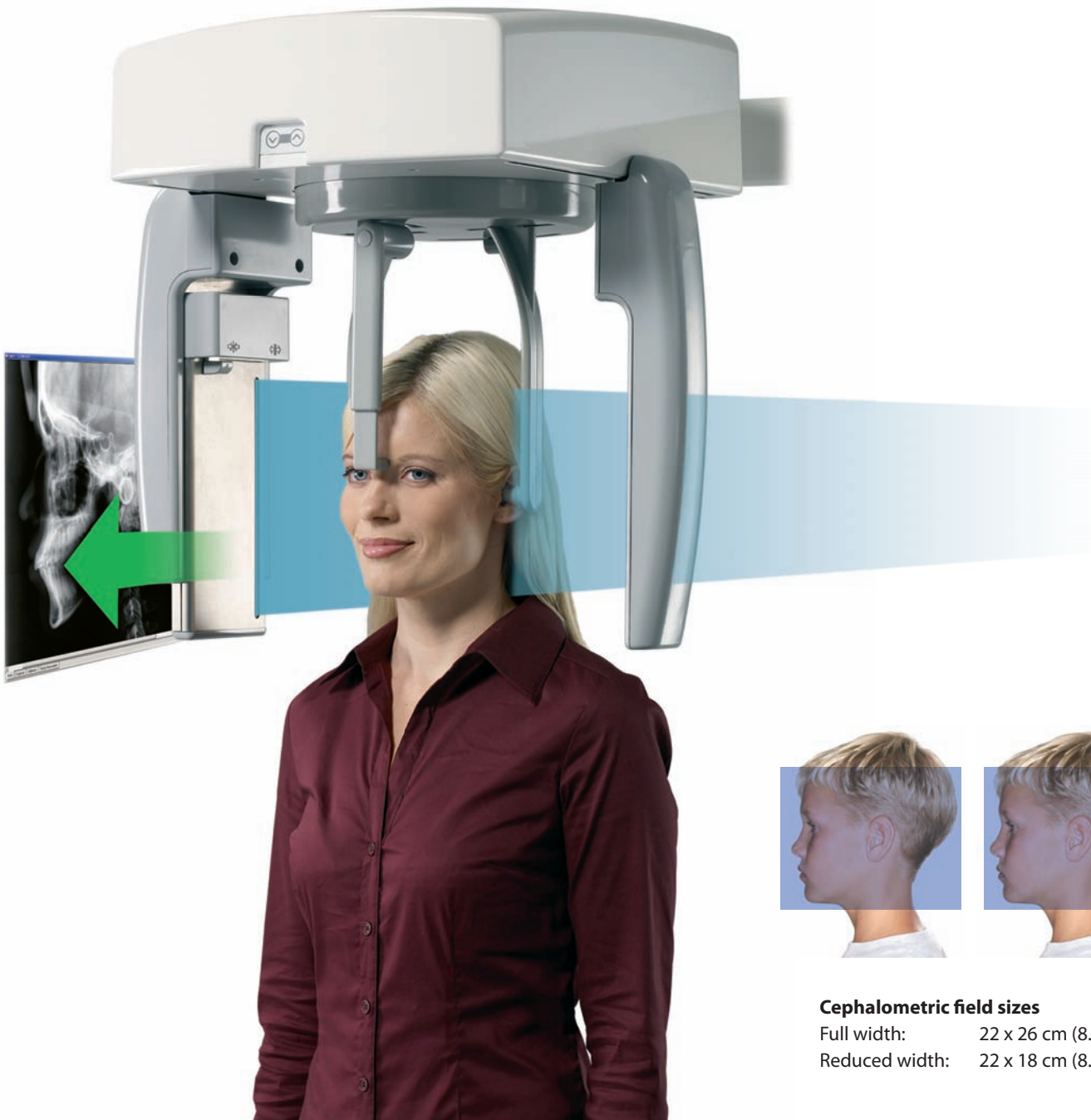


Automated ease fo use

The CRANEX® D automatically selects proper collimation for the selected imaging program by using the Automatic Collimator Selector (ACS). The Automatic Exposure Setting (AES) function automatically recommends proper exposure values based on the size of the patient's head. The operator can also override the recommended values if needed before the exposure.

Cephalometric imaging

CRANEX® D's cephalometric option can be configured as either left-handed or right-handed for flexible installation. Soft tissue filtration is adjusted automatically for the best diagnostic quality possible. With the use of the AES function, exposure values are selected according to patient size.



Cephalometric field sizes

Full width: 22 x 26 cm (8.66" x 10.24")
Reduced width: 22 x 18 cm (8.66" x 7.09")

QUALITY – EASE OF USE – FLEXIBILITY

Maximum flexibility

The CRANEX® D Ceph can be equipped as a single or dual sensor system for optimal workflow. Cephalometric capabilities can be added at any time to the CRANEX® D. This allows the CRANEX® D to grow along with your practice.

Upgradeability

The CRANEX® D panoramic unit is easily upgradeable to left- or right-handed cephalometric unit in the field.

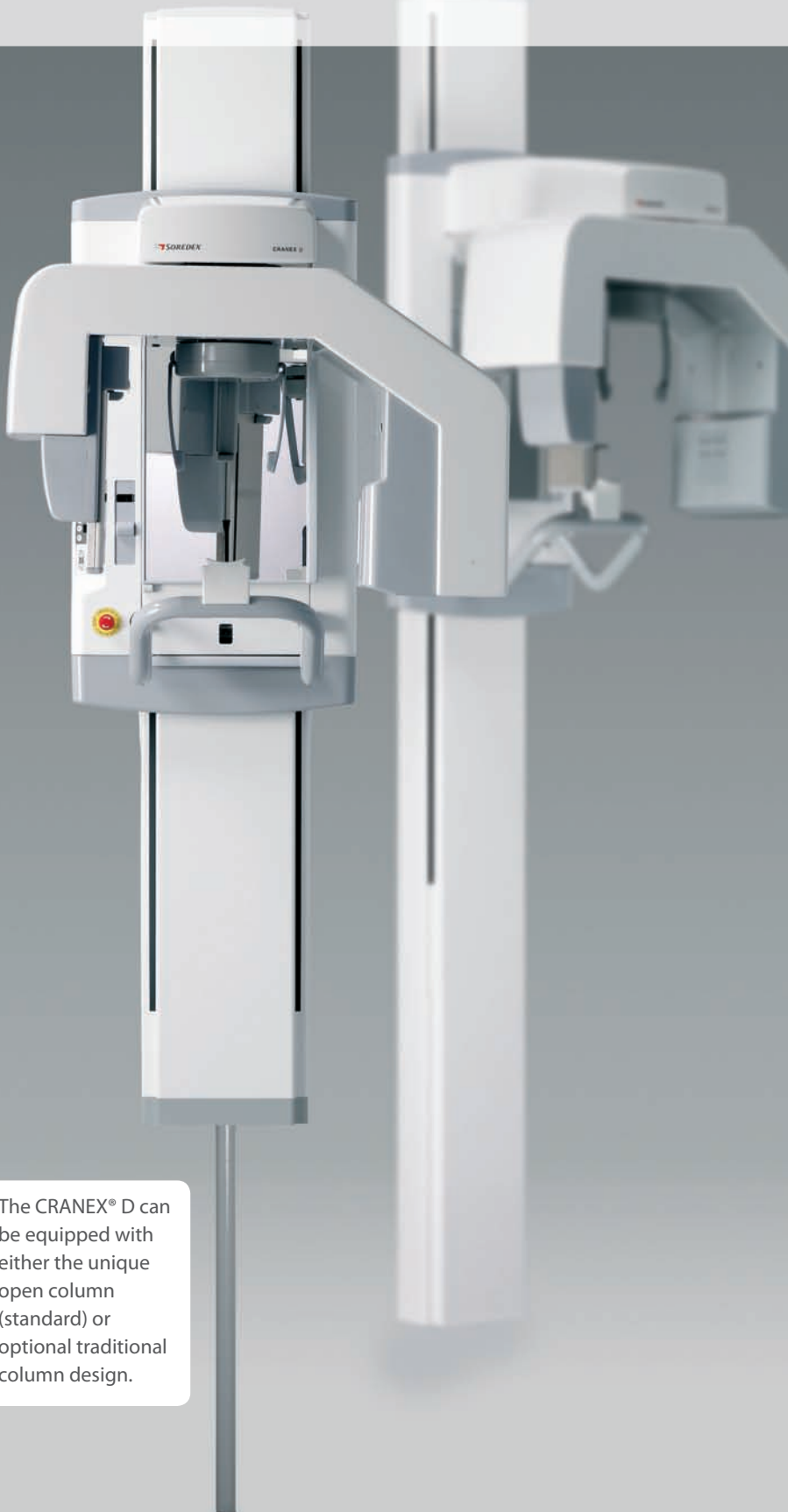


CRANEX® D Ceph head support in the PA projection. The nasion support is rotated out of the way.



CRANEX® D Ceph head support in the lateral position.

Compact design



The CRANEX® D can be equipped with either the unique open column (standard) or optional traditional column design.



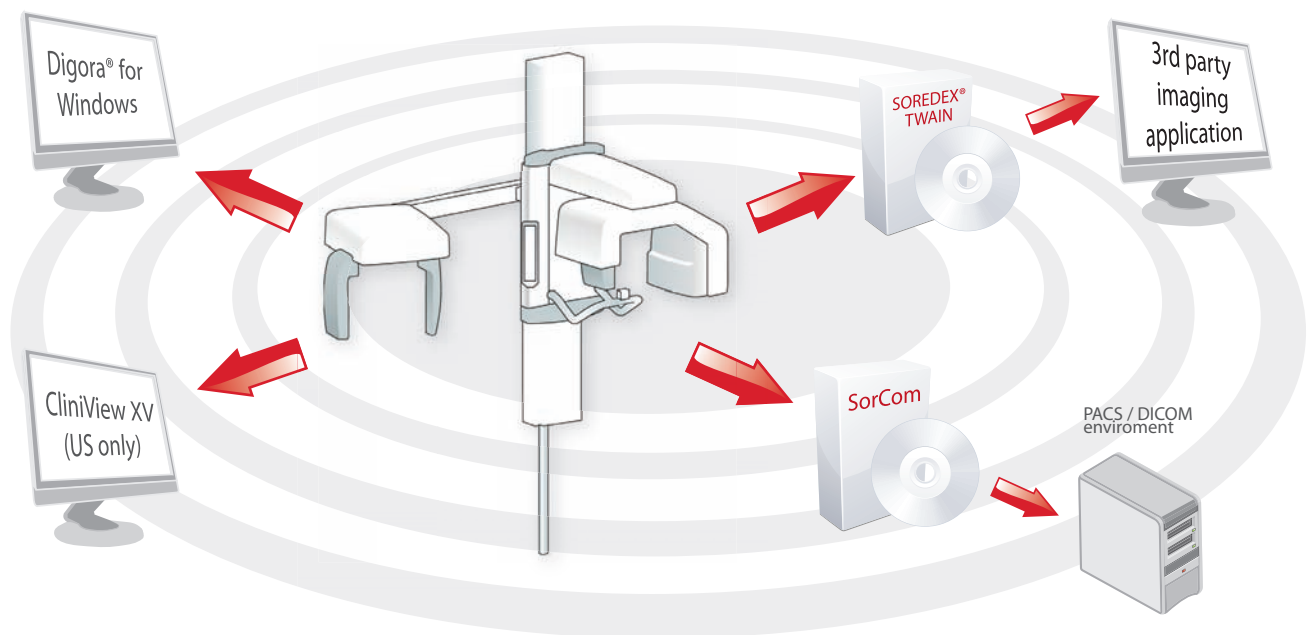
Positioning controls and accessories are located close to the operator for improved workflow.



The stainless steel CCD housing is designed to last.

QUALITY – EASE OF USE – FLEXIBILITY

The CRANEX® D is compatible with your choice of several software options.



- **DIGORA® for Windows** offers a comprehensive set of imaging tools for your day-to-day imaging needs. Network multi-user versions and full DICOM support are available as options.

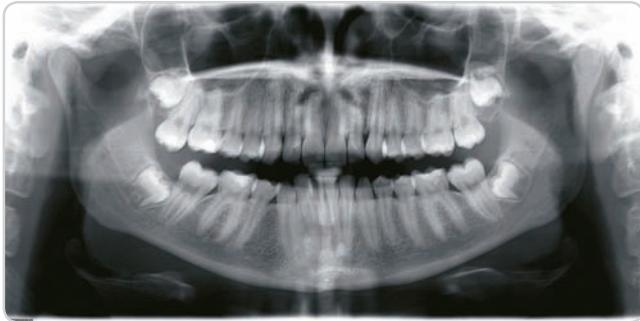
- **CliniView XV (US only)** offers the capability of capturing images from all of the digital treatment planning devices. It is geared to be used in operatories for quick and easy image capture, viewing and treatment planning.

- **SOREDEX TWAIN** utilizes the industry standard TWAIN interface to capture images directly into 3rd party imaging applications.

- **SorCom** provides a simple "DICOM bridge" for capturing images to a PACS/DICOM environment, where 3rd party DICOM imaging software is used for viewing images.

Imaging programs

With the CRANEX® D you can perform standard, pediatric or sectional panoramic examinations in addition to TMJ, sinus and optional cephalometric examinations.



Adult panoramic

All panoramic programs include automatic spinal compensation for an excellent view of the anterior teeth without a distracting spinal shadow.



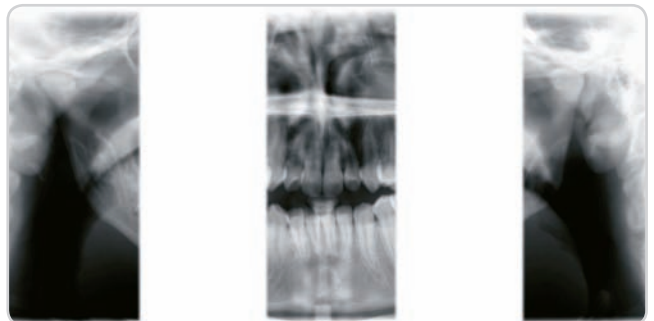
Child panoramic

A shorter exposure time and reduced exposure field lowers patient dose.



TMJ

TMJ images are taken mouth open and/or closed for functional evaluation and condyle anatomy.



Sectional Imaging

Any combination of 1 to 5 panoramic image sections can be selected. This reduces the patient radiation dose as only the region of interest is exposed.



Cephalometric

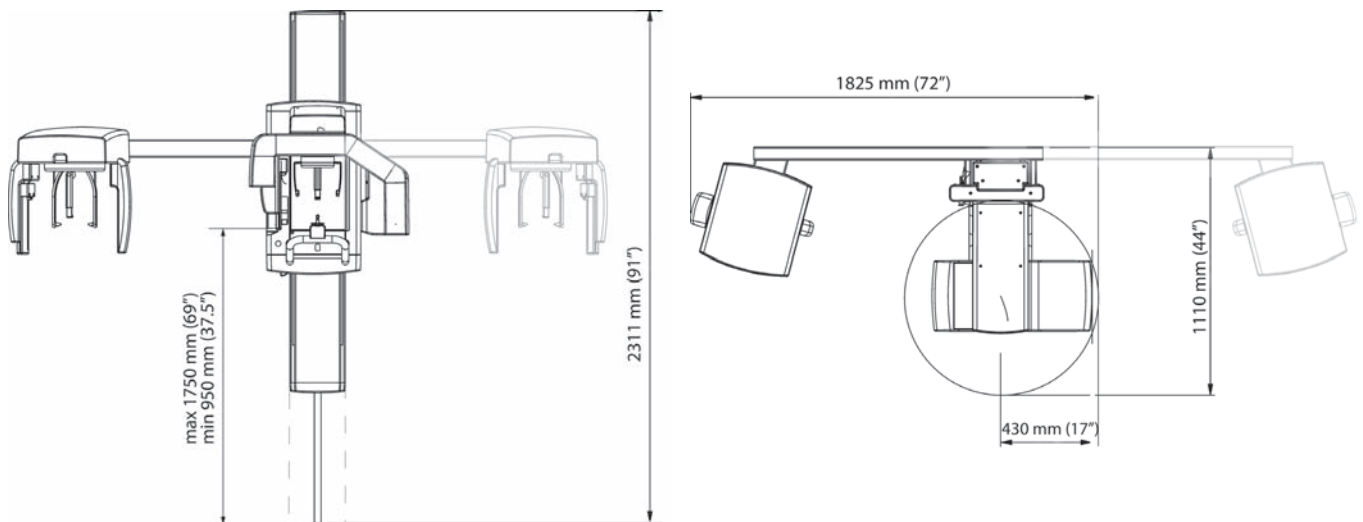
Lateral and PA images can be taken with the CRANEX® D.



Carpus

Optional Carpus imaging is also available with the CRANEX® D Ceph.

Technical data



General

Generator	High frequency DC generator, operating frequency 40 kHz
Focal spot size	0.5 mm
Minimum total filtration	2.7 mm Al
Line voltage	230/240 Vac \pm 10% / 115 Vac (50/60 HZ)
Anode voltage	57 - 85 kV
Anode current	10 mA
Exposure time	17.6 s High Quality panoramic, 11 s fast panoramic, 8 - 20 s cephalometric
SID	520 mm (20.47") panoramic, 1721 mm (67.75") cephalometric
Fusing	8 A / 16 A slow (230/115 Vac)
Weight	Pan 120 kg (264 lbs), Ceph 165 kg (363 lbs)
Electrical safety classification	EN 60601-1 class 1/B
Color	RAL 7040, RAL 9003

Digital Unit

Sensor	CCD-detector
Active sensor surface	PAN: 147.5 x 6.1 mm, CEPH: 221.2 x 6.1 mm
Pixel size sensor	48 μ m
Pixel size image	96 μ m
File size	PAN max: 9.5 MB, CEPH max: 11.5 MB

Workstation computer recommendations

Operating system	Windows Vista / Windows XP Professional / Home / SP1 or SP2, Windows 2000 Professional / SP4
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DIGITAL IMAGING
MADE EASY



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SOREDEX® designs, develops, manufactures and markets dental imaging systems, with an emphasis on innovative digital solutions. Operating worldwide, SOREDEX® offers quality imaging systems of true diagnostic value, based on an in-depth understanding of the dental practice. Applying three decades of experience of imaging excellence, we offer reliable and easy-to-use solutions that help you focus on patient care.

SOREDEX® digital imaging systems are innovative and accurate diagnostic tools that integrate seamlessly and easily into a dental practice, enhancing the imaging process and improving workflow. Our systems are designed to be simple and easy to use. They will make your dental practice more efficient and ultimately give you more time for your patients.

SOREDEX® stands for innovation and value in dental x-ray technology.

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