Welcome to the smiling world of SOREDEX™

CRANEX™ 3Dx



Easy imaging for expanded vision

SOREDEX

soredex.com



Benefits at a glance

CRANEX™ 3Dx combines top performance, ease of use and value

CRANEX™ 3Dx has 5 fields-of-view for accurate 3D imaging from single tooth to entire maxillofacial region.

Clinics can benefit from the top performance of CRANEX™ 3Dx with excellent panoramic and cephalometric imaging, as well as advanced 3D imaging supporting multiple application areas.

Clinics with dynamic 3-in-1 point-of-care imaging can provide faster treatment paths and flexible workflows with high diagnostic accuracy.

CRANEX™ 3Dx provides extremely easy and fast imaging with fresh ClearTouch™ Control panel, free FOV positioning with EasyScout™ and AES hybrid – combined Automatic Exposure Setting in panoramic, cephalometric imaging, as well as in 3D – a world first.



Dynamic 3-in-1

Clinics offering multiple treatments may also face a variety of diagnostic challenges in their daily work. These clinics benefit most from the CRANEX™ 3Dx solution:

- Multi-specialty dental clinics; implant, perio, endo, general dentistry
- Imaging centres and radiology centres
- Oral and maxillofacial radiology departments
- Oral surgeries; trauma, plastic surgery, orthodontics
- Orthodontic treatment facilities
- Hospitals

A solution to multiple diagnostics tasks:

- Panoramic and cephalometric examinations
- Dental implant planning and follow-up
- Endodontics
- Wisdom teeth
- Impacted teeth
- Temporo-Mandibular-Joint (TMJ) studies
- Oral surgery
- Airway studies
- Sinuses
- ENT (*
- Cervical spine studies
- Temporal bone studies
- Cysts and tumors
- Trauma

(*Countries approving CE marking, Not in US, Canada



Panoramic imaging

CRANEX™ 3Dx has a RealPAN™ dedicated panoramic CMOS sensor enabling full panoramic image size and accuracy in each panoramic program. This can be seen as a perfect and clear image.

CRANEX™ 3Dx has AES - automatic exposure setting function adjusting dose based on individual patient size reducing radiation with children and small patients.

The SOREDEX™ famous patient positioning system enables fast and accurate patient positioning with:

- Rigid 5-point positioning system
- Easily adjustable, self-locking temple supports
- Three laser lights for accurate positioning
- Large, hinged mirror



Adult panoramic



Child panoramic



Bitewing program

Outstanding image quality

Adult panoramic





Reduced Width Lateral Program



Posterior Anterior Program

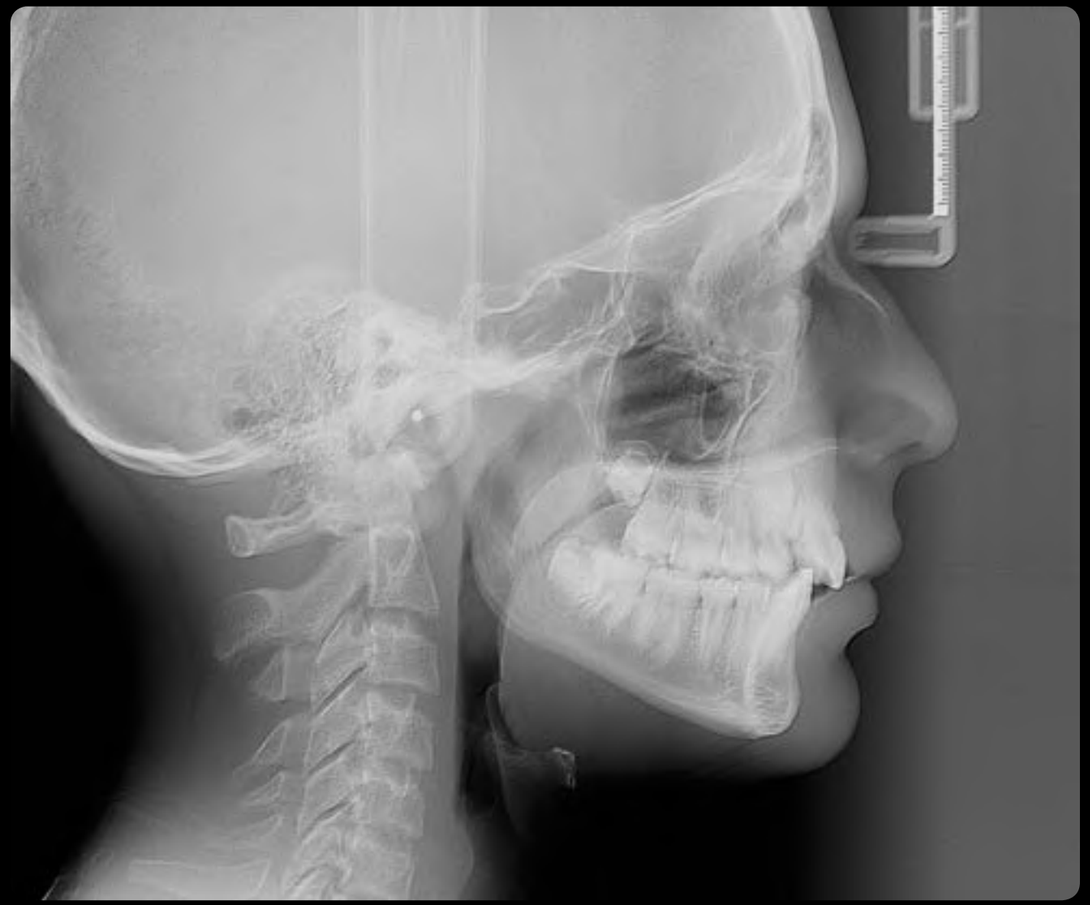


Carpus Program

(Not available in US and Canada). Carpus Program requires a carpus holder (separate option)

Visualization with clarity

Full Width Lateral Program





Cephalometric imaging

For orthodontic treatments, CRANEX™ 3Dx provides superior image quality with the latest CMOS sensor technology and fast workflow.

CRANEX™ 3Dx provides many functions to reduce radiation for children. Automatic soft tissue adjustment in cephalometric images visualizes facial profiles with improved clarity and reduces doses. Panoramic images have autocollimated programs with lower doses and faster imaging time.

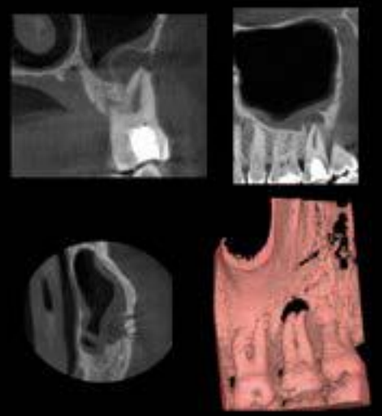
AES in orthodontics treatment reduces imaging values with children and helps optimize patient doses – AES hybrid functions in panoramic and cephalometric imaging and 3D.

In 3D imaging, all FOV sizes have Minidose™ programs that can be used with orthodontic treatments to reduce doses.

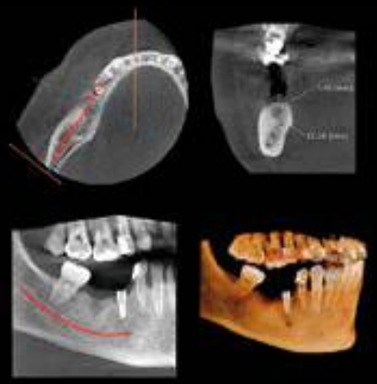
The SOREDEX™ patient positioning system includes stable head support, exact geometry and lateral image calibration in each image. In cephalometric imaging the correct head position can be confirmed with Frankfort Horizontal light.

3D imaging

Small FOV 5×5 cm

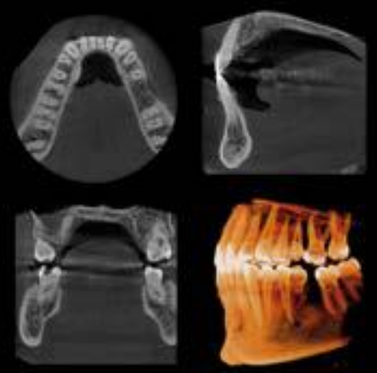


Midi FOV 6×8 cm

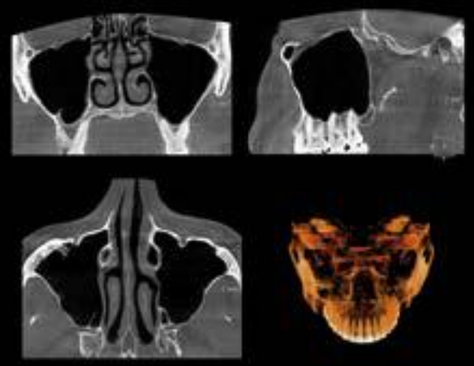




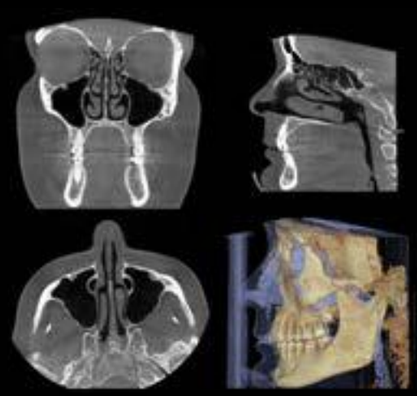
Medium FOV 8×8 cm



Large FOV 8×15 cm



XL FOV 13×15 cm





Diagnostic challenges met with ease

- Free FOV positioning: PickPoint™ and EasyScout™
- AES Hybrid – Automatic Exposure Setting in pan, ceph and 3D
- Fresh ClearTouch™ Control Panel
- SARA™ (Soredex Advance Reconstruction Algorithm)
- SMAR™ (Soredex Metal Artifact Reduction)
- Open software architecture with DICOM and PACS compatibility

The starting configuration includes 5 x 5, 6 x 8 and 8 x 8, which can be enlarged with 8 x 15 and 13 x 15 FOVs.

The CRANEX™ 3Dx system can be easily integrated with leading navigated surgery and drill guide systems having comprehensive DICOM/PACS compatibility.

Making imaging easy





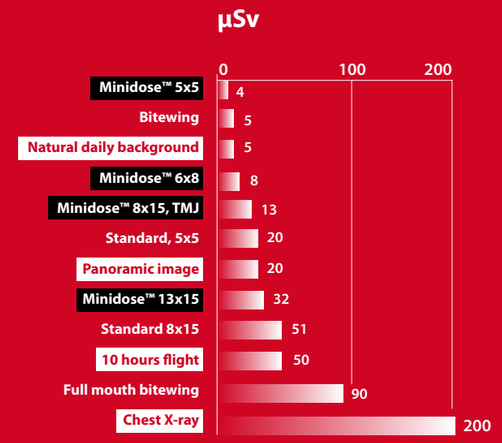
Minidose™

The SOREDEX™ Minidose™ solution (MDS) provides fast low dose imaging for CRANEX™ 3Dx.

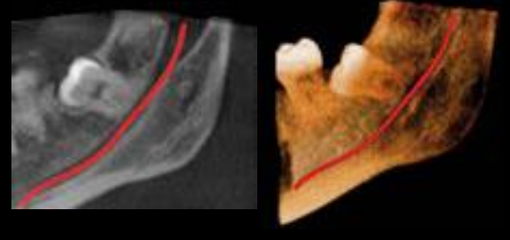
The SOREDEX™ Minidose™ solution (MDS) is a 3D imaging program with low radiation doses and good image quality thanks to SARA™ technology.

Minidose™ can be used with multiple clinical tasks when dose sensitivity is needed – implant planning and control, children, wisdom teeth, location of impacted teeth, general follow-up and nose bone fractures.

The SOREDEX™ WiseDose™ scaler visualizes relative dose for each program settings. It guides to use optimal dose settings especially in 3D with Dose Care Control assistance.

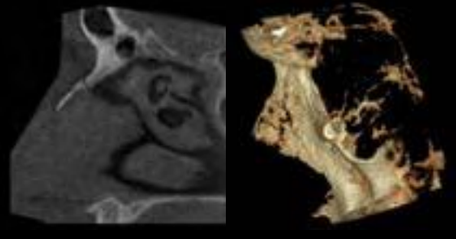


Small FOV 5×5 cm Minidose™

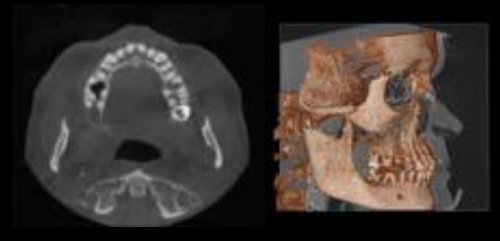


Minidose™ 5×5
1/5 Panoramic image

Medium FOV 8×8 cm Minidose™



XL FOV 13×15 cm Minidose™



*Dose study, Ludlow 2014

Technical data

Panoramic imaging

Sensor type	CMOS
Detector pixel size	100 µm
Active area height	5.8"/148 mm/1480 pixels
Resolution	spatial 6.5 lp/mm, image 5 lp/mm
Scanning time	8-16 s
Imaging programs	
Adult panoramic, child panoramic, bitewing, sectional, TMJ lateral, TMJ/PA and sinus	

Cephalometric imaging

Sensor type	CMOS
Detector pixel size	100 µm
Active area height	223,2 mm/2232 pixels
Image field width in lateral view	10.2"/260 mm, max 6.7"/170 mm, min
Resolution	spatial 6.5 lp/mm, image 4 lp/mm
Scanning time	6-20 s
Imaging programs	
Full width and child lateral, PA/AP and carpus projection (* (* Not available in US	

3D imaging

Sensor type		CMOS Flat Panel
Projections		234 - 900 slices
Voxel resolutions (µm)		85,125, 200, 250, 280, 300, 320, 350, 380, 400, 420
Small FOV	std	50 x 50 mm
Midi FOV	std	61 x 78 mm
Medium FOV	std	78 x 78 mm
L FOV	option	78 x 150 mm
XL FOV	option	130 x 150 mm
Scanning time		10-40 s
Exposure time (pulsed)		1-9 s

Configuration options

3D + Panoramic (ceph upgradable)
3D + Panoramic + Ceph (left/right)

File format	16 bit PNG
PAN	2-4 MB
Ceph	3-5 MB
3D	25-300 MB

X-ray generator

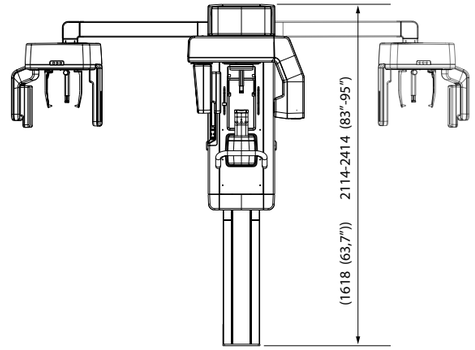
Generator	High frequency DC generator
Focal spot	0.5mm
Minimum total filtration	3.2 mm Al
Anode voltage	57-90 kV
Anode current	4-16 mA

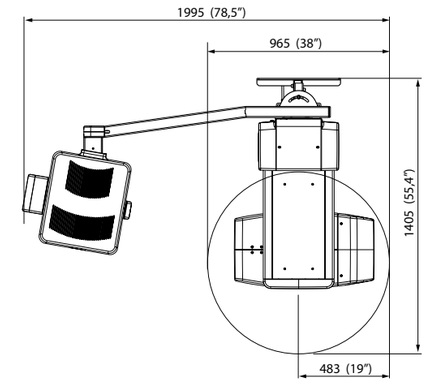
General

Weight	200 kg (440 lbs)
Weight with Ceph	250 kg (551 lbs)
Dimensions (HxWxD)	2414 x 965 x 1405 mm
Dimensions with Ceph	2414 x 1995 x 1405 mm

Power requirements

Line voltage	220-240V / 100-120V (50/60Hz)
Warranty	2 years





SCANORA™ SW with 3D viewing and diagnostic software offers a comprehensive set of imaging tools to assist you with your daily imaging needs. Flexible software options include standard single-user and optional network multi-user versions.

Optional DICOM services integrate CRANEX™ 3Dx seamlessly into a PACS/DICOM environment. SOREDEX™ TWAIN connects CRANEX™ 3Dx with 3rd party software supporting the TWAIN standard.

In addition to SOREDEX™ software, CRANEX™ 3Dx can be integrated with many practice management and 3rd party imaging software.

The CRANEX™ 3Dx system can be easily integrated with leading navigated surgery and drill guide systems having comprehensive DICOM/PACS compatibility.

It should be noted that CBCT images are not adequate for sthe analysis of oft tissue.

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Soredex designs, manufactures and markets easy to use and innovative imaging solutions for dental and maxillofacial professionals. SOREDEX™ portfolio covers wide range of applications from intraoral, panoramic, cephalometric extending to large field-of-view cone beam CT for demanding ENT and CMF diagnostics. Close co-operation with imaging professionals give us deep insight of how to incorporate true diagnostic value to clinical work.

Our products are known for reliability, simplified workflow and excellent image quality.
We are committed to fulfill these promises today and in the future.

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