



ORTHOPHOS XG 3D

**The most popular X-ray unit in the world.
Now with 3D!**

THE BREAKTHROUGH FOR 3D

The new ORTHOPHOS XG system with 3D.

More than 20,000 dentists worldwide rely on ORTHOPHOS. The new ORTHOPHOS XG 3D combines the advantages of 2D and 3D into one comprehensive unit. With the extensive selections of panoramic and cephalometric programs to choose, the right 2D X-ray image with minimal radiation exposure for your patients is now supplemented with the ability to capture the X-ray image in 3D. The 3D function increases diagnostic accuracy in your daily practice, and in combination with CEREC, it offers new possibilities in implantology. The new combination unit from Sirona requires about the same space as a traditional 2D X-ray machine, but now provides all the advantages of 2D and 3D in your own practice. **Enjoy every day. With Sirona.**

Key advantages

- 2D-3D Hybrid unit: Proven digital panoramic and optional cephalometric functions now includes a 3D module.
- 3D Field of view of dia. 8 cm x 8 cm: Optimized for daily tasks in the general practice.
- Best image quality with the lowest dose thanks to comprehensive 2D programs and perfect patient positioning.
- Ease of operation based on its intuitive control panel and automatic sensor rotation to meet 2D or 3D needs.
- Proven software for an integrated workflow that offers a comprehensive tool for scanning, diagnosing, treatment planning and implant placement using surgical guides.



From 2D to 3D
ORTHOPHOS XG 3D brings the world of 3D X-ray into the general practice.

YOUR ADVANTAGES WITH 2D

The basis for the new ORTHOPHOS: An outstanding concept in 2D.

ORTHOPHOS XG 3D is the result of Sirona's 100+ years of radiological expertise. By integrating all the advantages of ORTHOPHOS XGPlus, XG 3D provides the best image quality with the lowest dose combined with its intuitive software and integrated workflow makes it the ideal solution for any practice. The extensive range of panoramic and cephalometric X-ray programs facilitates accurate diagnoses for specialists as well as general dentist. Proven advantages and new possibilities – this combination makes the new ORTHOPHOS another future-proof and highly economical solution for your practice.



Best image quality

Combined with the automatic adjustment to the jaw width, the three point fixation ensures optimal image quality as well as reproducible panoramic images.

Lowest dose

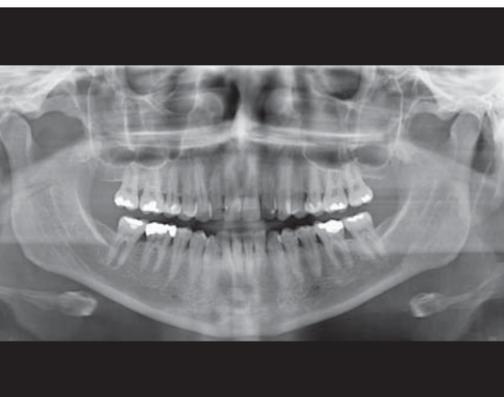
The extensive selection of programs for panoramic and cephalometric images, such as the Ceph-Quickshot program for children, ensures that your patients are exposed to the lowest amount of radiation.

Automatic patient positioning

The occlusal bite block measures the inclination of the occlusal plane. The direction of travel is displayed and the unit stops automatically at the desired position, thus preventing faulty exposures and eliminates the need for re-takes.

Ease of operation

Easy-to-understand symbols, clear user guidance: from positioning to acquisition, your assistant controls the entire process via the Easypad – a relaxed, time-saving and ergonomic system.



YOUR ADVANTAGES WITH 3D

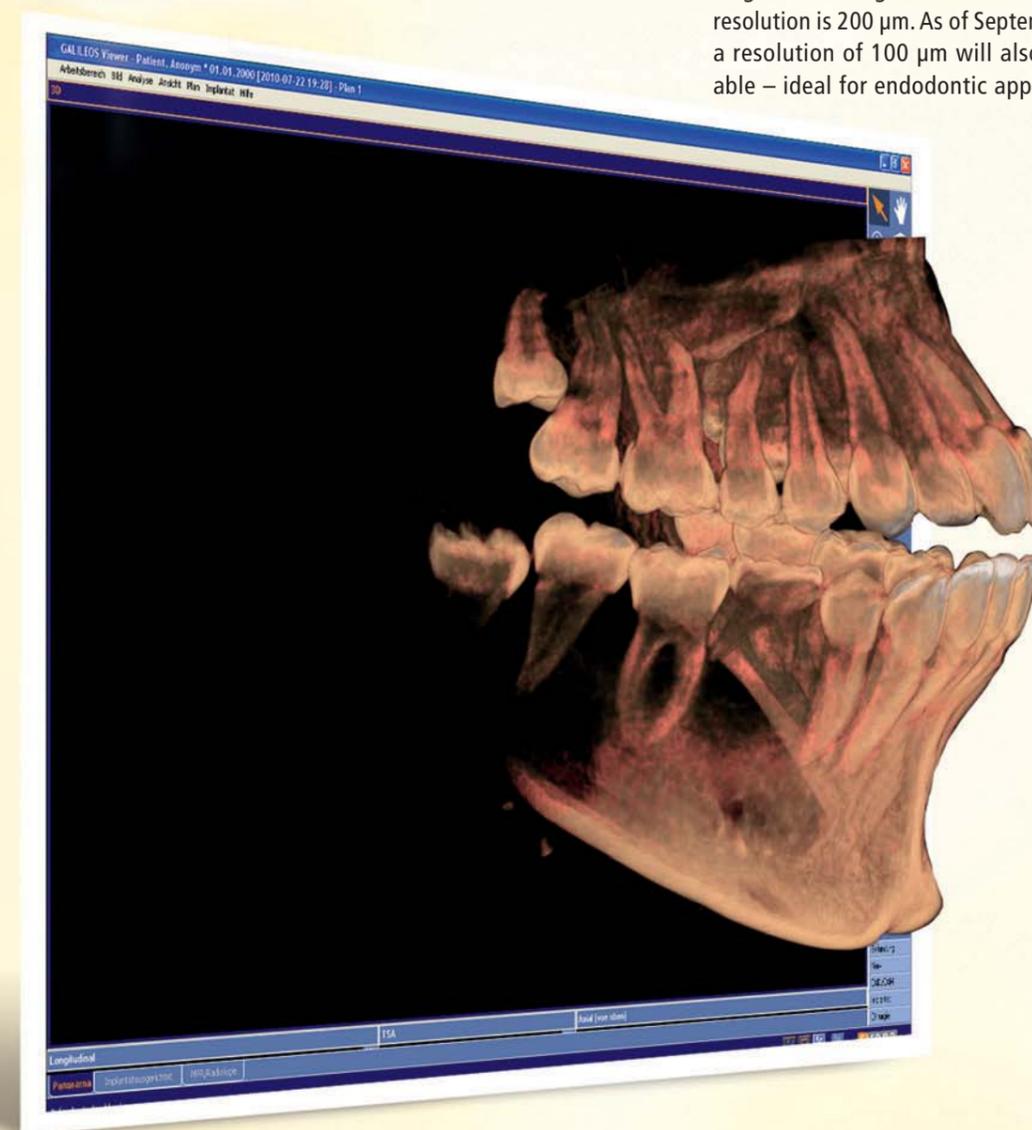
3D for everyone:

New possibilities with ORTHOPHOS XG 3D

3D X-ray technology is no longer just for specialists: the 3D module of ORTHOPHOS XG 3D is optimized for routine tasks in any practice. With the „big-small“ field of view (dia. 8 cm x 8 cm), you can view the entire jaw of a patient using just one image: the field of view is large enough to eliminate the need for stitching or taking multiple scans, which significantly facilitates diagnoses and treatment planning. Yet it is still small enough for rapid diagnosis and low radiation exposure.

High diagnostic accuracy

Superior 3D images for fast and accurate diagnoses and high clinical reliability: image resolution is 200 µm. As of September 2011, a resolution of 100 µm will also be available – ideal for endodontic applications.



Low radiation dose

Collimation to the upper or lower jaw further reduces the radiation dose and allows the practitioner to scan only the region of interest.



Automatic sensor change

To switch between the 2D and 3D sensor, your assistant simply selects the scan mode. The result: eliminating the risks associated with manual sensor change, significant time savings, reducing errors, and eliminates re-takes.

Imaging in three easy steps

Using the Easypad, your assistant selects the exposure region (central volume or posterior volume), the dose and the collimation, if needed, and takes the scan.

Easy patient positioning

No more re-takes due to incorrect patient positioning: correct patient positioning is achieved using a laser, colored bite blocks, and corresponding symbols on the Easypad. Eliminate the need to take test exposure.

INDICATIONS

More than 25% of your patients will benefit from 3D.

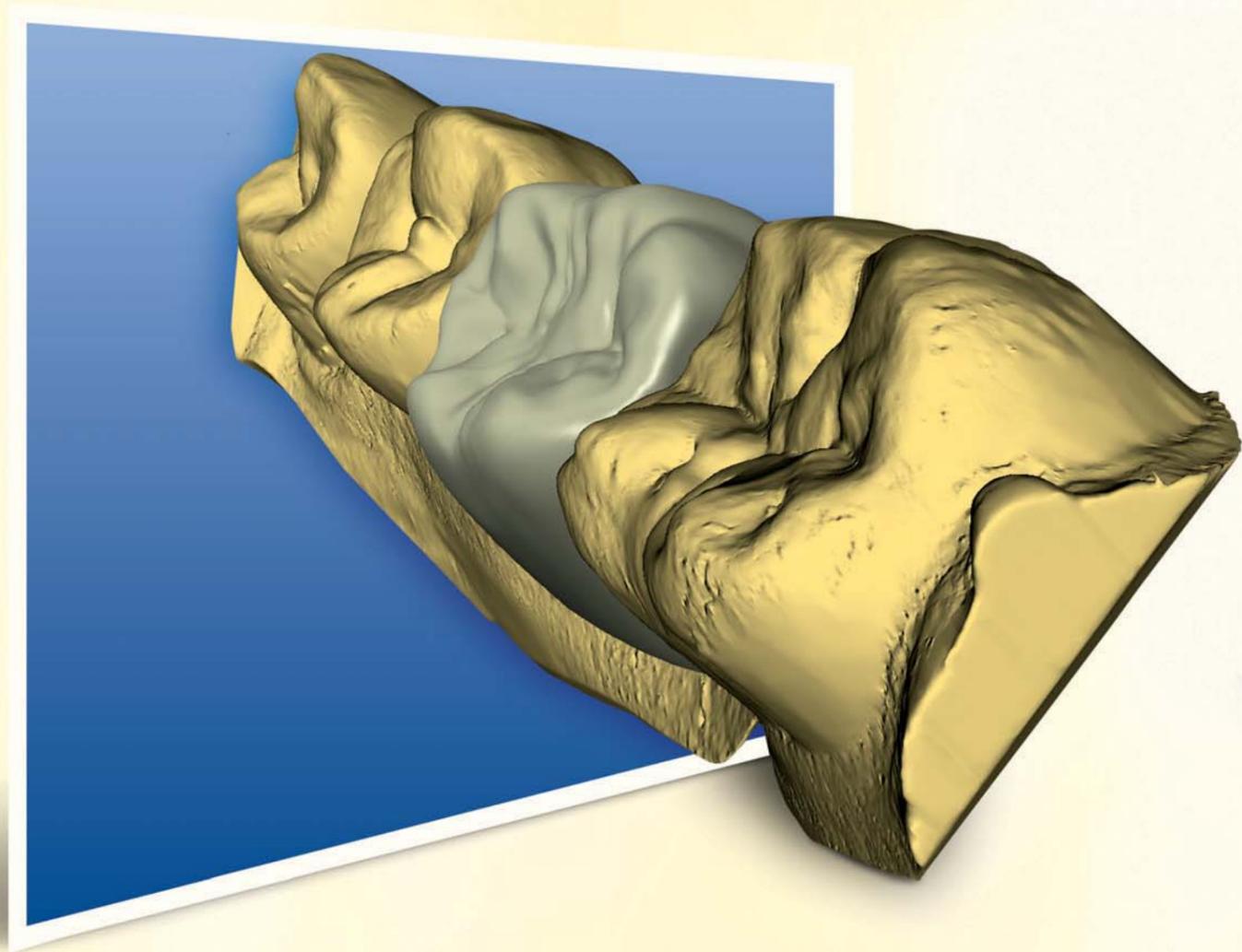
A panoramic or intraoral image does not always provide a clear diagnosis? What is the distance to the mandibular canal? How large is a cystic lesion? How much bone is available? In these types of challenging diagnostic situations, it helps to have access to a 3D X-ray. ORTHOPHOS XG 3D increases clinical safety and your patients' trust. With 3D images, patients have a clear understanding of the diagnoses and decides in favor of the suggested treatment quickly and more frequently.



Implant in region 16. Position correlation of the mandibular canal to the surrounding structures is clearly displayed in 3D. Security for dentist and patient.

Position of the root of wisdom tooth 38 is clearly displayed in 3D relative to the course of the mandibular canal. The nerve is saved.

Impacted tooth in region 18. Safely extracted using 3D X-ray. Minimally invasive surgery. Complications avoided.



INTEGRATED IMPLANTOLOGY

**Safe implants:
Beneficial for the future of your practice!**

ORTHOPHOS XG 3D gives you the confidence you need to provide implants yourself or to increase the number of implants you place, as well as to gradually expand your practice's services. This is made possible by the unique, simultaneous surgical and prosthetic implant planning with CEREC: the GALILEOS Implant software combines the prosthetic proposal with the 3D X-ray data, allowing you to exactly determine the position of the implant while considering both function and aesthetics. The perfect results guarantee that the patient will recommend your practice!

Prosthetic planning

Using the CEREC AC acquisition unit, the crown is designed based on the antagonist, soft tissue and neighboring teeth. With the CEREC or inLab software, it only takes a few clicks to create a morphologically correct and functional prosthetic proposal.

Integrated planning

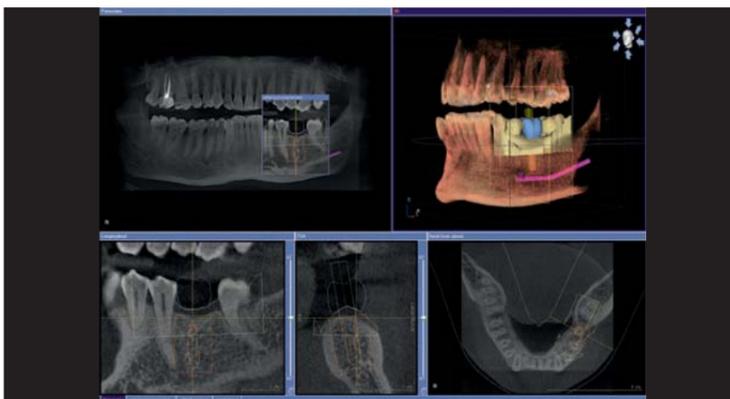
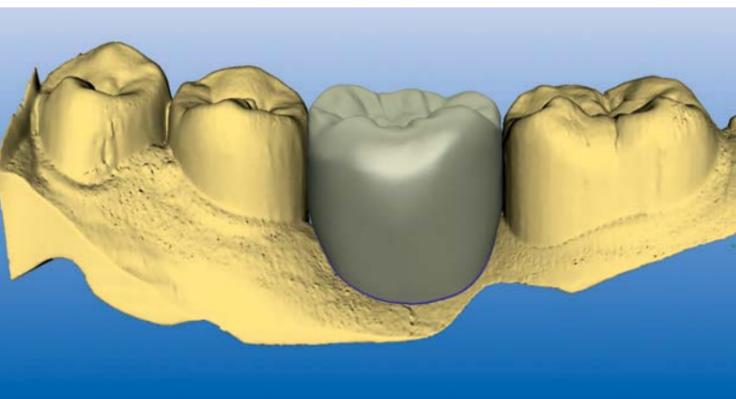
Supporting simultaneous prosthetic and surgical implant planning provides a revolutionary new approach to implantology. For the first time, crown design and the X-ray image are fused together in a single view. This ensures high safety, fewer work steps, and fewer sessions. The 3D view enables the patient to easily visualize the proposed solution and understand the required treatment steps.

Safe implementation

You can order the precise surgical guide directly in the software. The precision of the SICAT surgical guides allows implant placement exactly where planned within the GALILEOS Implant software, thus enhancing your ability to place implants accurately with ease, speed and a final outcome that offers the maximum convenience to the patient.

Even more possibilities

With the CEREC or inLab MC XL milling machine, you can create high-precision abutments and crowns yourself. In the future, you will even be able to design and mill drilling templates – thanks to the sufficiently large field of view of ORTHOPHOS XG 3D.



DIGITAL WORKFLOW

Software in a new dimension: A quantum leap for your workflows!

ORTHOPHOS XG 3D is equipped with the established GALAXIS 3D software and allows you to work directly in the image data in a diagnosis-oriented manner. Simply create findings - the software then saves these findings, including all windows and settings of the current view, so that they are accessible at any time. With the REPORTER software, you can quickly and easily create radiological reports on the basis of the marked findings. In addition, the GALILEOS Implant software allows you to easily and quickly plan implants and order SICAT surgical guides directly in the software!



Networking

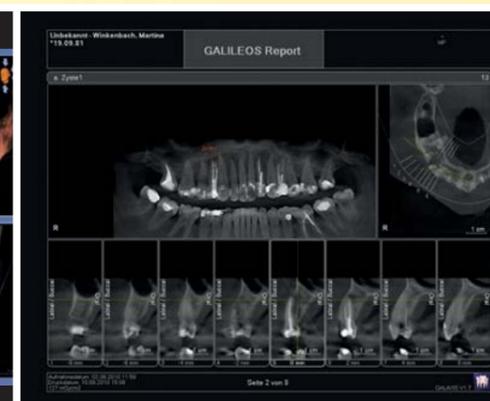
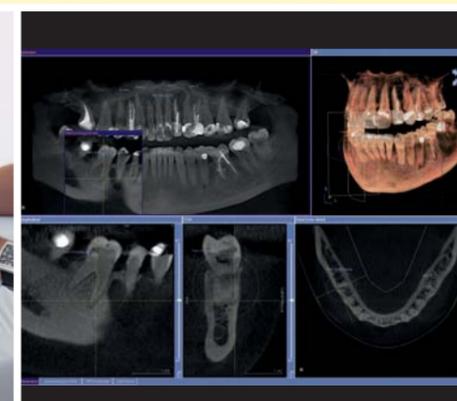
The DICOM-compatible X-ray software SI-DEXIS XG controls your ORTHOPHOS and connects it with all elements of the digital practice, giving you immediate access to all the information you need.

Findings-oriented documentation

In the GALAXIS software, you can mark findings directly in the X-ray image, then save the documentation and call it up at any time. A very time and cost-effective solution!

Reporting without losing time

With the REPORTER software, you can quickly and easily create radiological reports that you can print on film or paper or export in PDF or DICOM format. Alternatively, you can create a digital viewer with findings for your referrals.



THE CEPHALOMETRIC EXTENSION

The optimum choice for orthodontists: ORTHOPHOS XG 3D.

Trying to visualize displaced or impacted teeth in an anatomic relation without overlays? Clearly identify and differentiate root resorption? Better diagnose potential failure of eruption? Even in orthodontics, ORTHOPHOS XG 3G offers new possibilities: in difficult situations, you can take advantage of the reliability of 3D X-rays with a perfectly adjusted field of view. In all other situations, you benefit from the proven 2D display with lower radiation exposure.

Low radiation dose

Radiation exposure can be further reduced in special 2D programs, such as the Quickshot function or the pediatric program with horizontal collimation to protect the eye lens.



Automatic sensor change

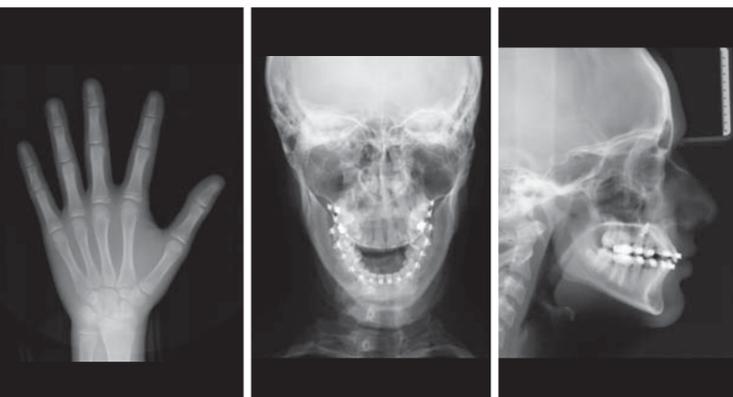
Clicking on the corresponding symbol moves the right sensor into the correct position - for ceph, panoramic or 3D. This saves time and prevents damage to the sensor.

Extensive 2D programs

The cephalometric extension provides many special projections for lateral, symmetrical (p.a. or a.p.) and carpus exposures. Ceph lateral can also be collimated to your preference of either 18 or 30 cm.

Perfect workflow

The SIDEXIS XG software is compatible with all common orthodontic analysis software programs. You can even have 3D models created by third parties on the basis of the 3D data.



A SAFE INVESTMENT

With ORTHOPHOS XG 3D, you can relax and look forward to the future!

The ORTHOPHOS XG 3D digital volume tomography pays for itself in any practice based on its excellent price-performance ratio and the fact that patient case acceptance of the proposed treatment is accepted quicker and more frequently. The combination unit also offers many possibilities for expanding your practice. For implants, endodontics, and orthodontics: ORTHOPHOS XG 3D can be expanded and upgraded to ensure optimal investment security for the future.



Retrofitting the Ceph arm

The cephalometric arm can be added at any time, and it is available in two versions – mounting on the left or on the right side.

Extended warranty

If desired, you can extend the warranty on your ORTHOPHOS tube assembly and sensors to five years – for even greater investment security.

Regular software updates

Sirona continuously strives to improve the supplied software. All programs can be upgraded with future software updates, and the Easypad touch screen user-interface will also work with future software updates.

3D as a future option

You don't need 3D yet? Then it's best to purchase an ORTHOPHOS XG 3D-ready unit – as it can be upgraded to ORTHOPHOS XG 3D at any time.

TECHNICAL DETAILS

ORTHOPHOS XG 3D: All-in-one unit.

Superior design and intelligent software: ORTHOPHOS XG 3D combines all the advantages. Depending on the specific case, select the technique with the lowest dose and the highest clinical safety: 2D or 3D, with or without collimation, special program or standard imaging. Best image quality is always guaranteed. The new ORTHOPHOS fits into any practice, can be quickly and reliably operated by your assistant, and its software guarantees modern patient care in less time. At the end of the day, it's a perfect investment in the future of your practice!

Overview of performance features	ORTHOPHOS XG 3D
Image volume	8 cm x 8 cm (diameter x height)
3D resolution: isotropic voxel size	0.2 and 0.1 mm, respectively
Scan time / exposure time	14 s/2–5 s
Reconstruction time / visualization time	1.5/4.5 min
Patient positioning	Standing, sitting
X-ray tube assembly	60 kV–90 kV, 3 mA–16 mA
Effective dose	Pending scientific study
Minimum room dimensions (depth x width x height)	1.5 m x 1.1 m x 2.25 m (pan) 1.5 m x 2.1 m x 2.25 m (ceph)
Recommended room dimensions (depth x width x height)	1.7 m 1.3 m x 2.5 m (pan) 1.7 m 2.3 m x 2.5 m (ceph)
Door size	At least 66 cm for installation
Weight	X-ray system is approx. 120 kg

Technical features	
Control	Easypad
Patient immobilization	Bite block, motorized forehead and temple support
Ceph arm	Optionally on left or right
3D views	Partially tiltable 2D slices, TSA, LSA, axial, sagittal, coronal, 3D model, 1-click OP reports, implant-oriented
2D programs	Standard panoramic, constant magnification, artifact-free, thick layer - anterior teeth, temporomandibular joint, sinus, multilayer - posterior teeth, bitewing, cephal optional

Space requirements

The ORTHOPHOS XG 3D requires a space of 1,280 mm x 1,411 mm in size.

Space requirements with Ceph arm

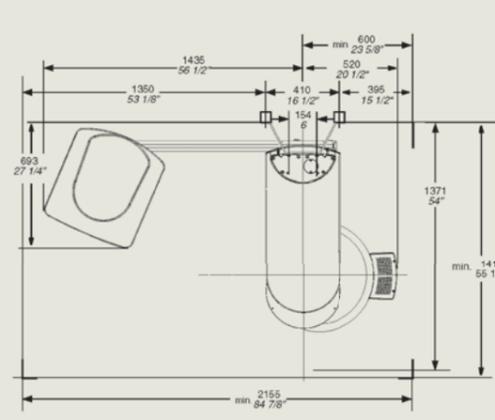
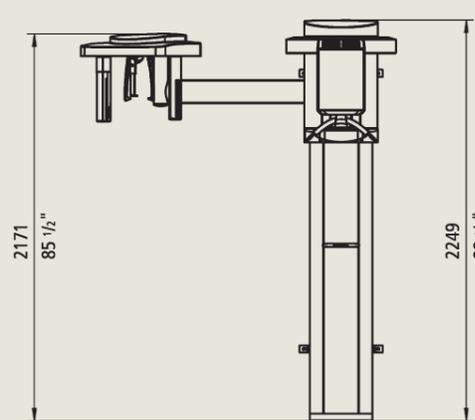
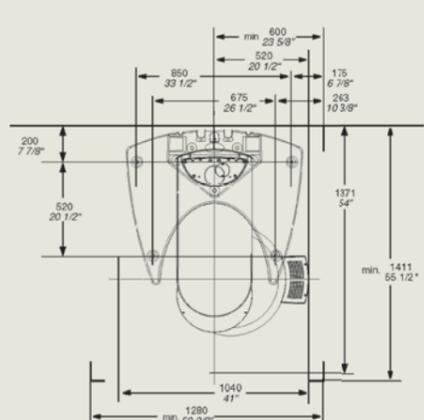
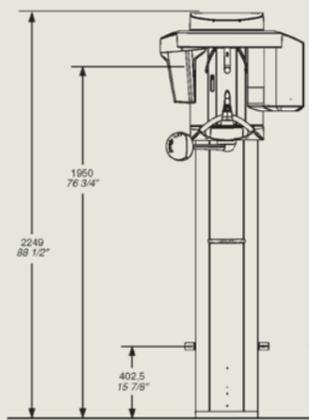
With the Ceph arm (mounted on the left or right, as desired), the space requirement increases to 2,155 mm x 1,411 mm.

Customization

ORTHOPHOS XG 3D is suitable for X-raying patients in wheelchairs as well.

Stable floor stand

We can also offer you a very stable floor stand if no wall is available for mounting ORTHOPHOS XG 3D.





CAD/CAM SYSTEMS | INSTRUMENTS | HYGIENE SYSTEMS | TREATMENT CENTERS | IMAGING SYSTEMS

SIRONA – UNIQUE WORLDWIDE SYSTEMS EXPERTISE IN DENTAL EQUIPMENT PRODUCTS

Sirona develops and manufactures a comprehensive range of dental equipment, including CAD/CAM Systems for dental practices (CEREC) and laboratories (inLab), Instruments and Hygiene Systems, Treatment Centers and Imaging Systems. Sirona manufactures high technology products that guarantee ease of use and a high return on investment – for the good of your practice and for the benefit of your patients. In this way, you can approach every challenge you face with confidence. **Enjoy every day. With Sirona.**

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