GLOBAL NUMBER 1

2D X-RAY

THE ORTHOPHOS XG UNIT FAMILY

X-RAYS YOU CAN RELY ON.





OUTSTANDING
IMAGE QUALITY
also in HD with CsI sensor

SIMPLE OPERATION
including intuitive software

JUST THE RIGHT MODEL
for all needs

MORE THAN 100,000 DENTISTS WORLDWIDE …

… rely on ORTHOPHOS. After all, the ORTHOPHOS XG unit family offers the perfect solution for every practice.

Which partner would you like to work with in your practice? An ideal partner would be one with plenty of experience and who is just as open-minded towards future developments. One that is aware of its qualities but can nevertheless fulfill your wishes to the T. One that supports you in a practice-oriented way, that always sees clearly and is able to think coherent thoughts. You can find such a partner in our ORTHOPHOS XG family: The x-ray unit you can rely on. **Enjoy every day. With Sirona.**

ADVANTAGES AT A GLANCE.

Every x-ray unit from our ORTHOPHOS XG family delivers the best image quality at the lowest dose and ensures the perfect workflow in your practice.



Thanks to sophisticated technology, your new x-ray partner provides maximum image information. Special programs reduce the radiation dose for your patients and provide the right x-ray image for every diagnostic task. All diagnostic questions are clarified easily and reliably in the SIDEXIS software with the help of efficient filters and analysis tools. And because your x-ray unit is directly connected to the practice network, you can do all this from any computer.

The ORTHOPHOS XG has no problem exchanging data with practice administration programs and with DICOM environments. And, using the x-ray images, you can advise your patients directly at the monitor of your Sirona treatment center.

Best image quality
- 3-point patient immobilization prevents motion blurring.
- Automatic adjustment to the jaw width ensures high image sharpness.
- Automatic image preprocessing visualizes details perfectly.
- Automatic radiation management for differentiated image displays.
- ASTRA: For artifact-reduced images and reliable diagnoses.
- HD image quality with CsI sensor (standard with ORTHOPHOS XG 3D[ready], optional with XG 3 and XG 5).



Minimum possible dose
- CsI sensor for selecting between HD and low-dose scans.
- Programs with reduced dose, e.g. Ceph Quickshot, pediatric program.
- Reliable positioning prevents errors and repeat imaging.
- Optimal radiation management.



Perfect workflow
- Logical symbols on the control panel prevent operator errors.
- Efficient software filters and analysis tools for quick and clear diagnoses.
- Easy data exchange, e.g. with practice administration systems.
- All the advantages of SIDEXIS software.



A COMPLETELY NEW **IMAGE QUALITY.**



Scan with CsI sensor

Scan with CsI sensor and processing with ASTRA



For quick and reliable diagnoses in all cases, the ORTHOPHOS XG units offer three possible image impressions: The standard view, artifact-reduced image definition with ASTRA, and even sharper and higher contrast image results for HD scans with the CsI sensor.

STANDARD IMAGE QUALITY
The standard sensor generates images with a very good resolution. The image is captured at 16 bits and automatically pre-processed. "Stretching" the image to the widest possible grayscale between black and white ensures that the details are easily recognizable.
What is also crucial to the image quality is uniform irradiation by the high-frequency generator with simultaneous automatic adjustment to fluctuations in the object density in the spinal area. The kV level is raised in the spinal area so that the image shows no shadowing of the spine on the front teeth. Compared to an increase in tube current or reduction in circulation speed in the spinal area, this leads to a reduced patient dose.

HD X-RAY SCANS
A CsI sensor is integrated as standard in the ORTHOPHOS XG 3D^{ready} for high-definition x-ray scans; ORTHOPHOS XG 3 and XG 5 can be upgraded to include this feature. Together with the image-processing algorithm ASTRA, the CsI sensor produces extremely high-contrast and detailed panoramic scans in difficult situations.

ASTRA
No black margins around metal fillings and no excess contrast which, for example, may lead to the misdiagnosis of caries. The innovative ASTRA algorithm produces images of a clarity which is sure to impress. ASTRA is also available as a plug-in for SIDEXIS software and ensures fast and reliable diagnoses.

* ASTRA = Anatomically STructured Reconstruction Algorithm.

HD imaging with the CsI sensor



Detailed view with ASTRA



THE UNIT YOU **CAN RELY ON.**

Reliable diagnoses. Perfect advice directly at the monitor of your Sirona treatment center. Low radiation dose. Gain the trust and confidence of your patients with an ORTHOPHOS XG by your side.



Like all Sirona x-ray units, the units in the ORTHOPHOS XG family have been designed to ensure "the best image quality with the lowest dose and a perfect workflow." Find out here which unit best suits your needs.

OVERVIEW OF UNITS

ORTHOPHOS XG 3

You are looking for a practice-oriented, high-quality and reliable solution for digital x-rays which offers exceptional value for money? Then ORTHOPHOS XG 3 is the right choice for you.

ORTHOPHOS XG 5

With temporomandibular joint, sinus, bite wing and pediatric panoramic programs, ORTHOPHOS XG 5 allows for more specific diagnoses. The optional cephalometric arm meets all the requirements of modern orthodontics.

ORTHOPHOS XG 3D^{ready}

ORTHOPHOS XG 3D^{ready} offers sophisticated diagnosis options for endodontics, periodontics, implantology, orthodontics and surgery. This unit can be fitted with a 3D module and, as such, is ideal for future-oriented practices.

OPTIONAL 3D MODULE

The optional 3D module for your ORTHOPHOS XG 3D^{ready} allows you to increase clinical safety, for example in the fields of implantology, endodontics and orthodontics, and opens up new possibilities in the field of implantology in connection with CEREC.

WHICH UNIT IS THE ONE FOR YOU?

Unit	ORTHOPHOS XG 3	ORTHOPHOS XG 5	ORTHOPHOS XG 3D^{ready}	3D module*
	6 programs	11 programs	77 programs Easypad control panel Automatic positioning	3D x-ray with ideal FoV VOL 1: 8 cm in dia. x 8 cm in height VOL 2: 5 cm in dia. x 5.5 cm in height
General dentistry	■	■	■	■
Orthodontics		■ Optional ceph arm left	■ Optional ceph arm right/left	■
Maxillofacial surgery		■	■	■
Specialist dentistry		□	■	■
Implantology		□	■	■
CEREC applications	□	□	■	■

* For ORTHOPHOS XG 3D^{ready} and ORTHOPHOS XG^{Plus} (ask your authorized dealer whether your ORTHOPHOS XG^{Plus} is suitable for upgrading).

■ Available. □ Optional.

ORTHOPHOS **XG 3**

The economy model: ORTHOPHOS XG 3 is the proven standard for practice-oriented x-rays.

High-quality. Durable. Safe: The ORTHOPHOS XG 3 is the perfect basic equipment for general dentists. The x-ray unit's easy operation and seamless integration into your practice's daily routines will save you valuable time. The high image quality and proven SIDEXIS software guarantee that you will come to a reliable diagnosis quickly and easily. For test exposures, you can reproduce the positioning very easily, since image parameters such as the bite block height are saved together with the image data.

PROGRAMS

- (P1) Standard panorama with orthoradial beam direction. For the basic diagnosis.
- (P1L) (P1R) Standard panorama half-sides left or right, e.g., for test exposures.
- (P1C) Panorama with constant magnification 1.25. For length measurements using a reference object.
- (P1A) Panorama with artifact reduction. For patients with numerous metal fillings.
- (TM1) Lateral temporomandibular joint with closed or open occlusion. For functional diagnostics.



Simple operation
Operation of the MultiPad is intuitive. Exposure parameters, for example, are selected via a patient symbol.



Sure positioning
Only two light localizers are required for ideal positioning in the sharp slice. The motorized forehead and temple supports fixate the patient's head and prevent motion blurring.



Very good image quality
Thanks to ASTRA, top image quality for quick and reliable diagnoses is ensured even with the standard sensor.



ORTHOPHOS **XG 5**

The professional model: ORTHOPHOS XG 5 offers more programs for the perfect result.

Easy operation. Variable features. ORTHOPHOS XG 5 makes the ideal partner for general dentists and orthodontists. Compared to the ORTHOPHOS XG 3, it offers additional programs with even more diagnostic options. All the image parameters are tailored to specific diagnostic tasks and are automatically adapted to head size. This means you get all the answers you need to your questions. The horizontally and vertically reduced pediatric panoramic program offers outstanding image quality with the lowest dose. Ideal for practices which treat a lot of children.

OPTIONAL CEPH ARM

The cephalometric arm offers all key views for orthodontists. If you, as a general dentist, later wish to develop your practice further, you can also upgrade the ORTHOPHOS XG 5 with a ceph arm at a later point in time.

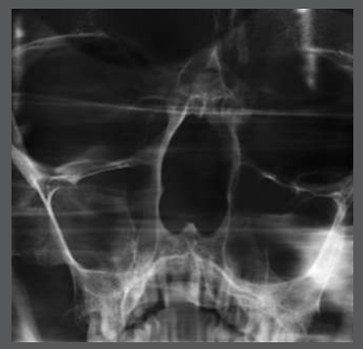
ADDITIONAL PROGRAMS*

- (P10) Pediatric panorama with height- and length-reduced radiation field to protect the eye lens
- (P12) Thick slice in the anterior tooth region for pronounced anomalies
- (S1) Sinus program for visualization of the paranasal sinuses
- (MS1) Multislice in the posterior tooth region for determining the position of displaced molars
- (BW1) Bite wing exposure for the posterior tooth region

* Compared to ORTHOPHOS XG 3.



Pediatric panorama



Sinus program



Bite wing exposure in the posterior tooth region



CEPHALOMETRIC X-RAY

ORTHOPHOS XG 5 and ORTHOPHOS XG 3D[ready] can be optionally upgraded to include a ceph arm, thus making all the relevant cephalometric x-rays available to orthodontists and surgeons.

The scan technique combines high resolution with a low dose. The image width can be selected: 30 cm or 18 cm. In addition to the usual programs for lateral, symmetric (p.a. or a.p.) and carpus images, a variety of special projections are possible, such as the half-axial or the Clementschitsch exposures. Patients up to approx. 1.90 m in height can be scanned in standing position.
Furthermore, the ORTHOPHOS XG 3D[ready] provides important additional functions, such as the Quickshot mode for quicker exposure cycles and dose reduction as well as shadowing of the upper head. If desired, your ORTHOPHOS XG can also be operated with two sensors. This means that you do not have to change sensors when transferring from panorama to ceph and the risk associated with manual changing is avoided.

PROGRAMS

- (C1) Symmetric p.a.
- (C2) Symmetric a.p.
- (C3) Asymmetric, adjustable image size 23 x 18 cm (H x W) or 23 x 29 cm (H x W)
- (C4) Carpus images
- Special projections, e.g. half-axial, Clementschitsch

ALSO WITH ORTHOPHOS XG 3D[ready]

- Anterior jaw shape available
- Quickshot mode for shorter exposure cycles
- Adjustable upper head shadowing for dose reduction
- Switchable image size (only by technician for XG 5)
- Orthodontic image series with shorter cooling periods



The scan technique combines high resolution with a low dose.



Ceph scan: High contrast, less noise and high image sharpness.



ORTHOPHOS XG 3D^ready

The advanced model: ORTHOPHOS XG 3D^ready is the solution which can be upgraded to 3D for all those who want more.

You want to offer your patients first-class treatments, take advantage of all the possibilities for extending the services you offer and also reduce the radiation dose? ORTHOPHOS XG 3D^ready makes the ideal partner for dentists and group practices that wish to actively plan and shape their futures. With a range of programs, this unit offers you all diagnostic options. Furthermore, you benefit from the very easy operation with the Easypad and automatic patient positioning with the occlusal bite block.
And, last but not least, you can expand the service spectrum of your ORTHOPHOS XG 3D^ready at any time. The 3D module enables you to gain more security with difficult diagnoses and opens up new possibilities in implantology in connection with CEREC: Overlapping of optical impressions and 3D volumes allows surgical and prosthetic framework conditions to be taken into account simultaneously. This gives you the safety and reliability you need to perform more implants yourself – without major costs and effort, minimally invasively using a drilling template, and with guaranteed esthetic results.

ADDITIONAL PROGRAMS*

- (P2) Standard panorama without ascending rami
- Additional versions with panoramic programs:
  - Individual quadrants
  - All artifact reduced with constant magnification
  - Quickshot for all panoramic programs
  - Automatic adjustment of the rotation curve to the jaw width
  - Automatic positioning of the head tilt with the occlusal bite block
- (TM2-TM6) (TM1-TM2) Temporomandibular joint lateral/axial
  - With adjustable radiation angle
  - With open and closed occlusion
  - With a slice position
  - C3: Lateral with optional panning
- (BW2) Bite wing program for the anterior tooth region
- Additional versions with the bite wing programs:
  - Optional panning left/right with BW1
- (S2–S4) Sinus programs
  - Maxillary sinuses in one/two images
  - Maxillary sinuses in one/two images (linear)

* Compared to ORTHOPHOS XG 5.





Automatic positioning
The patient bites on the patented occlusal bite block. This measures the inclination of the bite block plane, the direction of travel is displayed and the unit automatically stops in a plane that is preset by the service technician, for example the occlusal plane.



Convenient operation
Your assistant can quickly and easily recognize the functions required on the Easypad. A preview image appears directly after scanning.

EMBRACE THE FUTURE.

With the ORTHOPHOS XG you don't need to worry about what's around the corner.

Simple workflows mean you save time with your ORTHOPHOS XG. An ORTHOPHOS XG 3D[ready], in particular, grows with your requirements: The ceph arm and the 3D module can be integrated later on, at any time. Moreover, all ORTHOPHOS XG units are of the highest quality, are durable and, on request, come with a 5 year-warranty on the tube assembly and sensor. This ensures maximum investment security for you.

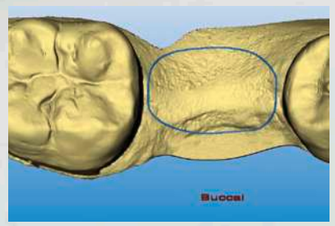
3D MODULE – STEP INTO A NEW DIMENSION

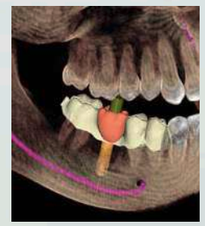
Even with very restrictive indications, more patients than you would realize present a case for 3D: The optional 3D module allows you to access 3D x-rays for challenging diagnostic situations which gives you the confidence you need to perform more implantations in your own practice. Moreover, 3D increases the trust your patients are willing to place in you. Thanks to the three-dimensional images, patients not only better understand your diagnoses, but also decide in favor of the suggested therapy more quickly and more frequently.





Your workflow plus with 3D
With the SIDEXIS software you can save your findings directly in the x-ray image and, on the basis of this documentation, produce radiological reports quickly and simply.



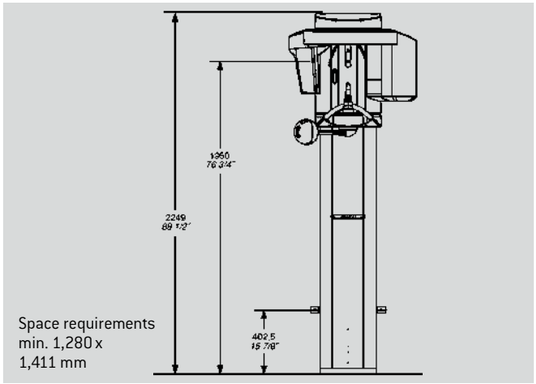


Integrated implantology
GALILEOS Implant integrates the prosthetic proposal from the CEREC software into the 3D x-ray image. This ensures a high level of safety, fewer work steps and perfect results from both a surgical and esthetic perspective.

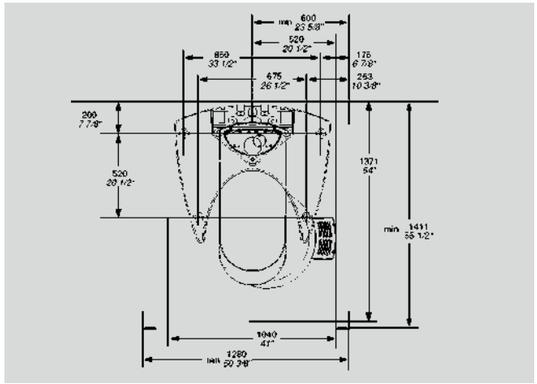
TECHNICAL PROPERTIES.

	ORTHOPHOS XG 3	ORTHOPHOS XG 5/Ceph	ORTHOPHOS XG 3D^{ready}/Ceph
Programs			
Standard panoramic overview	P1	P1, P10	P1, P2, P10
Image detail of left- or right-hand side	P1L, P1R	P1L, P1R	P1L, P1R, P2L, P2R, P10L, P10R
Image detail of individual quadrants	–	–	P1, P2, P10, P1C, P1A
Image detail of upper or lower jaw	–	–	P1, P2, P10
Constant magnification	P1C	P1C	P1C, P2C, P10C
Artefact-reduced images	P1A	P1A	P1A, P2A, P10A
Thick-layer images of anterior region	–	P12	P12
Thick-layer images of anterior teeth, both jaws	–	–	P12
Image detail upper or lower jaw, quadrants	–	–	■
Sinus images	–	S1	S1, S2, S3, S4
Multi-layer images of premolars	–	MS1	MS1
TMJ	TM1	TM1	TM1–TM6
Bite wing image	–	BW1	BW1, BW1L, BW1R, BW2

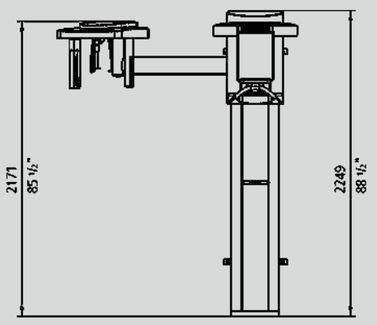
■ Available. □ Optional.



Space requirements
min. 1,280 x
1,411 mm



With ceph arm min.
2,155 x 1,411 mm



	ORTHOPHOS XG 3	ORTHOPHOS XG 5/Ceph	ORTHOPHOS XG 3D^{ready}/Ceph
Technical Specifications			
User interface	MultiPad	MultiPad	EasyPad
5-year warranty (2D/3D) for generator and sensor	□	□	□
Ceph arm (18 x 23 cm and 28 x 23 cm)	–	Left	Left or right
Ceph unit with 2 sensors	–	□	□
Quickshot	–	–	■
Selectable anterior jaw shape	–	–	■
Anomaly compensation	–	–	■
Automatic detection of jaw width	–	■	■
Orthodontic program group	–	–	■
Retrofit options	–	Ceph	Ceph/3D
Image preview on user interface	–	–	■
Hardware ready for subsequent upgrades	–	Ceph	Ceph/3D
90 kV high-frequency generator	■	■	■
Automatic patient positioning: occlusal bite	–	–	■
Generator	60–90 kV, 3–16 mA	60–90 kV, 3–16 mA	60–90 kV, 3–16 mA
Panoramic exposure time	14 s P1	14 s P1	14 s P1 standard/9 s P1 Quickshot
Patient positioning	Standing/seated	Standing/seated	Standing/seated
Exposure time ceph 18 x 24 cm	–	9.4 s standard/4.7 s Quickshot	9.4 s standard/4.7 s Quickshot
Door width	At least 66 cm for installation	At least 66 cm for installation	At least 66 cm for installation
Weight	Approx. 110 kg	Approx. 110 kg	Approx. 110 kg
Floor stand	□	□	□
Wheelchair-accessible	■	■	■
Remote control	□	□	□
CsI sensor can be optionally integrated	■	■	■

■ Available. □ Optional.

Stable floor stand for stand-alone mounting (optional).



Individual patient positioning even for wheelchair users.



Remote control with display of exposure parameters included in the scope of supply.



PROGRAMS AT A GLANCE.

This overview lists all programs and the associated scans of the ORTHOPHOS XG 3D[ready]. Please refer to the technical properties table for details of which of these programs are also available with the ORTHOPHOS XG 3 and the ORTHOPHOS XG 5.

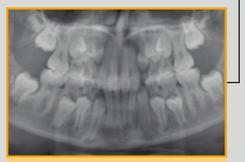
Panorama



P1 orthoradial radiation



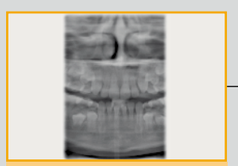
P2 without ascending rami



P10 pediatric panorama, beam field reduced in height and length

- Standard exposure
- With a constant magnification of 1.25
- With artifact reduction

Optional panning:
- UJ
- LJ
- Right
- Left
- Individual quadrants

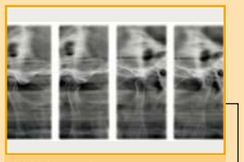


P12 thick slice in anterior tooth region

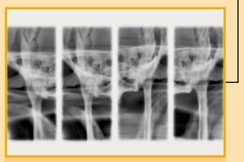
Optional panning:
- UJ
- LJ

- Quickshot option for all PAN programs
- Automatic adjustment of the rotation curve to the jaw width
- Automatic positioning with occlusal bite block

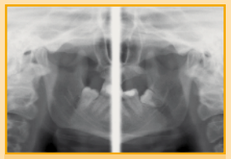
Temporomandibular joint



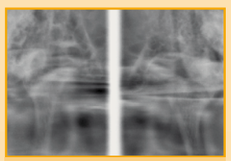
TM1 lateral



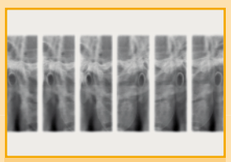
TM2 axial



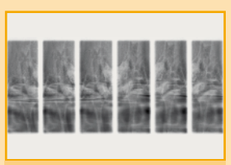
TM3



TM4



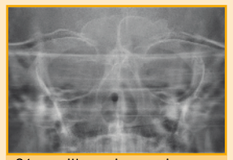
TM5



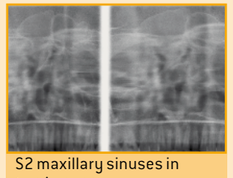
TM6

Adjustable radiation angle:
- With open and closed occlusion
- With a slice position

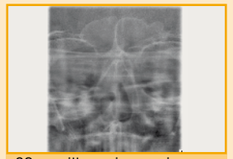
Sinus



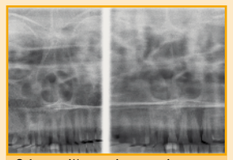
S1 maxillary sinuses in one image



S2 maxillary sinuses in two images

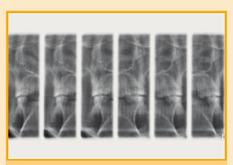


S3 maxillary sinuses in one image (linear)



S4 maxillary sinuses in two images (linear)

Multislice in posterior tooth region



MS1

Bite wing



BW1



BW2 anterior tooth region

Optional panning:
- Right
- Left

ALWAYS AT THE FOREFRONT OF **INNOVATION!**

As global innovation leader for dental equipment, we continuously invest in research and thus in the future of modern dentistry. By networking digital technologies with integrated solutions and optimizing the treatment workflow, we create improved treatment results, more comfort and safety for the patient as well as time and cost savings in everyday work. The combination of constant innovative power and globally growing sales and service structures makes Sirona the global market leader trusted by thousands of practices and labs around the world. **Enjoy every day. With Sirona.**





CAD/CAM systems
From pioneer to new standard. For almost 30 years we have been developing digital dentistry and creating new possibilities for the future practice and lab.



Imaging systems
Best image quality with the lowest dose. More than 100 years of developing x-rays for the dental practice make us the number 1 innovation partner.



Treatment centers
The business card of modern practices. We are striving to create the ideal ergonomic and innovative center. Individually tailored to the well-being and demands of the patient and dentist.



Instruments
Advantages that speak for themselves. We make sure that we provide the right balance of proven quality, individual ergonomics and innovative technology for user-friendly work.



Hygiene systems
Competence that gives you safety. When it comes to hygiene in the practice, we do not take any shortcuts.

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The Dental Company

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