ORTHOPHOS XG 5

Digital panoramic X-ray made simple

Now comes standard with Bitewing Program!
ORTOPHOS XG 5 completes the neXt Generation of X-ray systems.

The ORTOPHOS XG family!
As a co-inventor of panoramic X-ray imaging and a pioneer of digital panoramic and cephalometric X-ray imaging, Sirona builds on the experience it has gained through the development and manufacture of over 55,000 systems to achieve the reliability and long service life offered by its current X-ray systems. This experience is supplemented in ORTOPHOS XG systems with innovative functions to enhance diagnostic capabilities and productivity in your practice. In addition to the ORTOPHOS XG 5 presented here, we also offer the XGPluS with more diagnostic possibilities for specialized dentists and those who plan to specialize in the future and will need to be able to upgrade their equipment functionality at that time.

ORTOPHOS XG 5!
The ORTOPHOS XG 5 is designed as part of the neXt Generation family of Sirona X-ray products for dentists who would like to use state-of-the-art technologies to meet their most important requirements:
- Accurate and reliable X-ray images
- Simple operation
- Cost effectiveness

High quality!
Pan and Ceph sensors with CCD technology and 27 µm pixel size

Highly accurate!
3-point patient fixation

Future oriented!
The "Multipad" for easy system control

Future oriented!
The Ceph arm for digital cephalometry can be easily retrofitted when you are ready

Networkable!
Ethernet technology allows control and image acquisition from any PC in the network
ORTHOPHOS XG 5 –
High quality imaging made easy.

The basis for sharp images!
Panoramic X-ray imaging is a precise process. Only objects located within the focal trough are displayed sharply. The ORTHOPHOS XG 5 ensures this through:
- Precise, immediate positioning of the anterior teeth in the sharply focused image layer without using an imprecise canine light localizer and
- Effective and comfortable 3-point fixation to prevent patient movement during the exposure.

This provides the basis for good image quality.

The technology for excellent diagnostics!
If the region of diagnostic interest is located in a defined image layer, it is important that this slice is clearly displayed. The innovative concept of the ORTHOPHOS XG 5 ensures this through:

Specific programs for specific types of information
- Panoramic programs using standard orthoradial beam projection or with constant magnification for measurement during implant planning.
- A genuine pediatric program (P10) with a radiation field that is reduced in width and in height to protect children’s eyes and thyroid from inadvertent radiation.
- Temporomandibular joint program TM1, featuring a special orbit and a projection angle that coincides exactly with the axis of the temporomandibular joint (TMJ) creating a true lateral projection.

Optional technology for your practice
- Compensation for the spinal column via automatic kV control generally results in a more detailed display of the anterior teeth.
- The CCD sensor has a pixel size of 27µm. 16-bit image acquisition and automatic preprocessing of raw image data ensure that a maximum amount of information is obtained before the exposure appears on the monitor.
- The numerous filter and analysis functions featured in SIDERIS XG imaging software simplify diagnosis.

Reliable simplicity!
Since imaging equipment is often used by different operators, the easier it is to operate the more reliable the results will be. Sirona’s history of keeping things simple was the driving force in developing the ORTHOPHOS XG 5. The patient is positioned using only 2 light line markers to align the mid-sagittal and Frankfort horizontal planes. And all system functions are controlled from the central control element, the Multipad.

Easy adjustment of system settings!
The control elements are clearly arranged on the “Multipad” to allow easy adjustment of the system in just a few steps:
- Push button-controlled motorized adjustment of the height, forehead and temple supports
- Program selection with automatic diaphragm change
- Selection of exposure parameters via intuitive patient symbols

The programs for your practice:
With its 12 individual programs, the ORTHOPHOS XG 5 offers you diagnostic choices. Each program has a specific focal path to deliver the best results for the corresponding task – just the way you need it for your diagnosis.
Standard panoramic radiograph with orthoradial projection

Standard panoramic radiograph, left side

Standard panoramic radiograph, right side

Artifact-free panoramic view avoids double projection of shadows

Standard panoramic with constant magnification, also ideal for larger patients

Pediatric panoramic radiograph with reduced height and width

Thick layer of the anterior region

Panoramic bitewing of the posterior region

Lateral temporomandibular joints in closed and open occlusion

Sinus program
Display of the paranasal sinuses

Transverse multi-slice posterior teeth
ORTHOPHOS XG 5 – Panoramic Bitewing Programs

“We had a child on whom we couldn’t take an intraoral bitewing image without the patient gagging or moving so we tried the new bitewing program on our ORTHOPHOS XG 5 pan unit. The new bitewing program works very well. It provides a diagnostic image, in my opinion, quickly and easily for a patient that otherwise could not tolerate the procedure.”

Dr. Ryan Woodman - Matthews, NC

Advantages of the BW1 Posterior Program:
- Larger area allows for additional diagnostic information compared to standard intraoral bitewings as shown in the example to the left
- Great alternative for patients with challenging intraoral anatomy
- Both sides are imaged on the XG 5 Unit

ORTHOPHOS XG 5 – for diagnostic needs now and in the future!

Cephalometry with clarity!
The horizontal scanning sensor captures each portion of the image in just a fraction of a second. Maximum resolution is therefore attained with a minimum dose. An image width of 18 or 29 cm (7” or 11.5”) is possible for lateral exposures. Patients measuring up to 1.90 m (6 ft. 3 in.) in height can be imaged in a standing position.

The Ceph arm can also be retrofitted to a Panoramic unit at a later date. If an optional second sensor is used, the Pan and the Ceph imaging workflow is possible without swapping the sensor position.

All the Ceph programs you need: Lateral, PA/AP, Hand

flexible
upgradeable
ORTHOPHOS XG 5 – tomorrow’s technology for your practice.

Digital X-ray really pays off!

Digital radiography is becoming more widely accepted for many important reasons. These include: time savings, lower radiation dose, better practice organization and less physical space requirements (when you consider the elimination of the darkroom). And digital radiography with Sirona offers you even more. It’s easier, more logical and more productive:

- The ORTHOPHOS XG 5 can be connected directly to your practice network. Thus, there are no additional software license fees and images can be viewed from any PC on the network. For you, this means more freedom and better cost effectiveness.
- The SiDEXiS XG software interconnects all Sirona imaging systems (Pan, Ceph, intraoral X-ray and camera). This enables you to add new equipment to your practice economically and take advantage of optimized workflow. SiDEXiS XG integrates or bridges directly with most clinical or practice management software programs easily.
- All Sirona intraoral sensor systems are available in a network-compatible X-ray wall box or USB system. This modular concept enables you to grow your digital practice when and how it suits your needs.

This product is available in two sensor versions: Remote Control with display of exposure parameters and Sturdy Floor Stand if no walls are available for fastening your pan only X-ray unit. Ceph units require wall bracket.

### Technical Data

**Digital Pan/Ceph**

- **Radiation generator**: Multipulse generator (max. 120 kHz)
- **X-ray tube**: 58 90/15 FN
- **Focal spot size according IEC 336/82**: 0.5 mm x 0.5 mm
- **Total filter**: 2.5 mm al
- **Tube voltage**: 60–90 kV
- **Tube current**: 3–16 ma
- **Nominal voltage**: 230–240 V, 50–60 Hz
- **Nominal current**: 12 A
- **Line internal resistance**: max. 0.8 Ohm
- **Fuse**: 16 A slow blow
- **Power consumption**: 2.8 kW
- **Permissible line voltage fluctuations**: ± 10 %
- **Panoramic exposure time (P1)**: 14.2 s
- **Ceph radiation time, 18 x 24 cm**: 9.4 s
- **Effective exposure time**: approx. 270 ms

**ORTHOPHOS XG 5 DS**

- **Radiation generator**: Multipulse generator (max. 120 kHz)
- **X-ray tube**: 58 90/15 FN
- **Focal spot size according IEC 336/82**: 0.5 mm x 0.5 mm
- **Total filter**: 2.5 mm al
- **Tube voltage**: 60–90 kV
- **Tube current**: 3–16 ma
- **Nominal voltage**: 230–240 V, 50–60 Hz
- **Nominal current**: 12 A
- **Line internal resistance**: max. 0.8 Ohm
- **Fuse**: 16 A slow blow
- **Power consumption**: 2.8 kW
- **Permissible line voltage fluctuations**: ± 10 %
- **Panoramic exposure time (P1)**: 14.2 s
- **Ceph radiation time, 18 x 24 cm**: 9.4 s
- **Effective exposure time**: approx. 270 ms

### Programs

**Panoramic programs:**
- Standard panoramic selectable from the following choices:
  - Standard orthoradial full dentition (P1)
  - Standard orthoradial left (P1L)
  - Standard orthoradial right (P1R)
  - Constant magnification or larger patients (P1C)
- with artifact-free (P1A)
- Pediatric panoramic (P10)
- Thick anterior slice (P12)
- Bitewing version
- Posterior region (P1R)
- Lateral temporomandibular (TMJ) program
- with open and closed occlusion (TM1)

**Sinus program:**
- Multi-slice cross-section of posterior teeth (M1)

**Ceph programs:**
- Ceph asymmetrical
- Ceph symmetrical p.a.
- Ceph symmetrical a.p.
- Carpuls (hand/wrist)

### Technical features

- Centralized control via “Multipad”
- Optional remote control
- 90 kV high frequency generator
- Spinal column compensation via automatic kV increase
- CCD sensor technology with high-speed interface, 27 µm pixel size and image acquisition with 16-bit technology, 100 MBit Ethernet data transmission
- State-of-the-art data technology via integrated power PC and CAN bus architecture
- Upgradable system software
- Ceph is upgradable
- Combination of Pan/Ceph sensors are available as an option
- System versions: ORTHOPHOS XG 5 DS, ORTHOPHOS XG 5 DS Ceph
- SiDEXiS XG image processing software
- Optional floor stand
- Suitable for patients in wheelchairs

### Min. space requirement of ORTHOPHOS XG 5 DS:

- Pan: 50.4” x 55.6” (1280 x 1411 mm)
- Ceph: 84.8” x 55.6” (2155 x 1411 mm)

### Min. space requirement of ORTHOPHOS XG 5 DS Ceph:

- Pan: 50.4” x 55.6” (1280 x 1411 mm)
- Ceph: 84.8” x 55.6” (2155 x 1411 mm)

### Height with floor stand:

- ORTHOPHOS XG 5 DS: 89.75” (2279 mm)
- ORTHOPHOS XG 5 DS Ceph: 89.75” (2279 mm)

### Remote Control

- If no stands are available for fastening your unit, Pan/Ceph units require wall bracket.
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 and laboratories, Instruments, 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.

Equipped for success. With Sirona.

For additional direct digital diagnostic imaging capabilities, ask your dental dealer about the rest of the Sirona Imaging product family.

ORTHOPHOS XG 3
ORTHOPHOS XG 3D ready
GALILEOS 3D IMAGING
Intraoral Solutions