



OPTIMUM SECURITY FOR THE FUTURE

Change to the future with Sirona.

Enhance the success of your practice! Because digital X-ray with Sirona really saves time. It is more efficient, gentler, and an outstanding basis for diagnoses. And it enables you to utilize your knowledge and experience more purposefully and more effectively. Because one thing is for sure: communication is faster and more reliable on-screen. All of the stored information is immediately available at the treatment center and your treatment is thus more efficient: for your patients, for your team and for you. **It will be a great day. With Sirona.**

Digital X-ray is as individual as your practice

Whether as a single-user solution or in a fully digitized practice, the advantage of this technology lies in its modularity. Depending on the workflows and the practice concepts involved, each dentist can freely decide whether he would like to work in a fully digitized network. Then he can interface all digital imaging systems, e.g. intraoral X-ray, panoramic X-ray and intraoral camera, with each other to form a single system. Especially practical here is the fact that you can control all of your digital imaging systems with a single diagnostic software package: SIDEXIS XG. Another advantage is the possibility of starting off with a single-user solution and then later adding additional components. The unique thing about Sirona is that each X-ray station can be operated either as a single-user solution or in a practice network.

Digital X-ray really pays off

The question here isn't whether you will change, but when. Digital technology is extremely cost-effective, because it virtually eliminates variable costs. The time savings and workflows achieved by your practice can be consistently improved by extending its digital network. Each individually installed digital module is fully integrated when the system is extended. The Sirona investment security criterion thus applies from the outset. That adds up to clinical safety and openness for the future at the same time.

Everything depends on the right partner

With its origins in Siemens Dental Systems, today Sirona can look back on over one hundred years of experience as a pioneer of panoramic X-ray technology. Sirona was dedicated to digital X-ray technology at a very early stage of its development. Having installed tens of thousands of digital intraoral and panoramic X-ray systems worldwide, today Sirona has acquired a vast amount of knowledge and innovative capabilities in this segment. As a user, you will therefore benefit from the optimal image quality, easy operation and maximum reliability of your Sirona equipment in routine daily operation.

Digital X-ray really pays off:

- Time savings
- Clear diagnosis
- Better practice management
- Less radiation exposure
- Reduced room and space requirement
- Clear communication
- Less environmental pollution
- More cost-effectiveness
- New revenue possibilities

OPTIMUM DIAGNOSIS

Undoubtedly the best basis for diagnosis.



The diagnosis is clear

The use of digital X-ray systems employing the user-friendly and multifunctional SIDEXIS XG software ensures simple application for an extremely precise and reliable diagnosis.

Simply faster

Razor-sharp digital images appear on your monitor in just a few seconds, regardless of whether you take the images in the X-ray room or directly at the treatment center. Automatic, patient-related image archiving in the PC ensures optimal data security and an unobstructed workflow. Digital intraoral X-ray also enables delay-free endodontic treatment.

Simply more precise

In the future, wrong exposures will be a thing of the past and optimal exposures will be a matter of course. The SIDEXIS XG software from Sirona ensures that the exposure is automatically preprocessed, i.e. adjusted to the widest scale of gray levels. This maximum depth of detail enables you to perform an optimum diagnosis immediately. However, digital images can also be postprocessed. Brightness or contrast filters, a display zoom function and length as well as angle measurement functions enable you to define your own individual image viewing mode. The relative density display and the new "Sharpen Plus" super filter offer you much more information potential than conventional X-ray image viewing options can possibly match.

Simply safer

Radiation exposure is a subject of daily interest to your team, your patients and to you yourself. Digital X-ray reduces radiation exposure in your practice considerably: By up to 30% for panoramic images, by up to 70% for cephalometric images and, depending on the film speed class of the film being compared, by up to 90% for intraoral X-ray. An argument for more health at the workplace.

Simply clearer

Demonstrate the need to perform a specific treatment to your patients much more clearly by discussing the digital X-ray image together with them directly at the monitor of the treatment center (Sirona SIVISION) or at the practice PC.

Simply more communicative

Assuming that your colleagues think just as progressively as you do, you can easily exchange digital images with them via e-mail for consultations in the future.

Your advantages for optimal evaluation of findings:

- Razor-sharp images in just a few seconds
- Wide range of possibilities for image analysis and processing
- Automatic, patient-related archiving
- Low radiation exposure
- Optimal patient communication
- Maximum data security
- Easy exchange of data with colleagues



Digital X-ray without delays during a root treatment

- 1 | Measurement exposure
- 2 | MasterPoint exposure
- 3 | Final test exposure

- 1 | Analysis functions: e.g. length measurement, angle measurement, etc.
- 2 | Image processing: Brightness, contrast, magnification, image filter, zoom and much more
- 3 | Administration: e.g. patient database, diagnosing, sending images, etc.

OPTIMAL PATIENT COMMUNICATION

More insight for your patients.



OPTIMAL WORK WITH SIDEXIS XG

The perfect software for the perfect diagnosis.

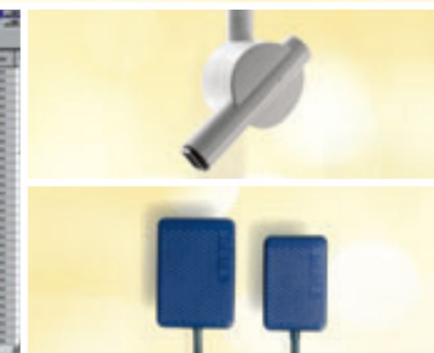
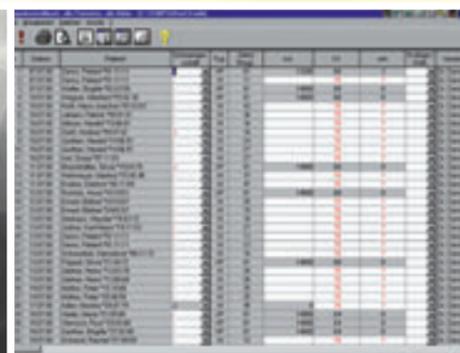


Image processing with the "Sharpen Plus" filter

X-ray control book with automatic data transfer

Panoramic and intraoral X-ray – powered by SIDEXIS XG

Enhance communication

The more clearly you can explain diagnoses, the better your patients will be able to understand the need for the required treatment steps. Utilize the quality of digital X-ray images to simplify your work considerably.

Ecological benefit

Digital X-ray requires no chemicals, and is therefore a clean business in every way. Your team can do away with the cleaning of film developers, and the risk of improperly handling chemicals is a thing of the past. Your patients thus feel that they're in good hands and quickly realize that your practice has dispensed with a lot of unnecessary consumer waste and aggressive chemicals.

Reduce the radiation dose

This reassures the patient and the practice team: The radiation exposure resulting from a digital panoramic X-ray image, for example, is lower than the natural radiation which an airplane passenger is exposed to during a 30-minute flight at an altitude of 11,000 m. For digital intraoral X-ray, the radiation exposure is almost 10 times lower than that of conventional X-rays taken with X-ray films of film speed class D.

Strengthen trust

A decision in favor of digital X-ray demonstrates your sense of responsibility for your patients and your team. An additional factor to tie your patient base to your practice.

Your advantages for improved practice marketing:

- Improved patient communication
- No unnecessary waiting times for patients
- Reduction of consumer waste
- Considerable reduction of radiation exposure; therefore more protection for patients and practice team
- Enhanced patient loyalty

One for all

SIDEXIS XG (neXt Generation) is the multifunctional software for all imaging techniques from Sirona: Intraoral, panoramic, cephalometric and intraoral camera. SIDEXIS XG integrates digital X-ray into the workflows of the dental practice perfectly and adapts to your wishes very flexibly.

Optimized functions

You reach the diagnosis faster and easier. You document your decisions more clearly. You can perform several measurements on the same image, for example, draw and write directly and store and print everything together. Using the new "exam" function, you can generate, retrieve and update X-ray images, findings and notes. Time savings through better logic!

Maximum flexibility

The user interface is individually adaptable. The filter, brightness and contrast can be preselected automatically. That saves time and minimizes the "clicks." SIDEXIS XG can be extended to include additional functions via plugins, thus offering almost unlimited possibilities.

Easy data exchange

All exposures can be stored in various formats for data processing as well as for data import and export. SIDEXIS XG is compatible with all successful patient management programs. A DICOM-compatible module and a terminal/server version of SIDEXIS are available.

www.sidexis.com

The website with info, freeware and user tips.

OPTIMUM WORKFLOW

It's high time that you have more time.

Just get into the act

If you would like to use digital intraoral X-ray in the future, you will require a sensor and an image acquisition module (e.g. a wall box) in addition to your X-ray tube unit as an interface between the sensor and the PC or practice network. The basic control of exposures is performed by the SIDEXIS XG X-ray software from Sirona. For digital panoramic X-ray, the sensor and corresponding acquisition module are already integrated in the digital ORTHOPHOS X-ray unit. You can use your SIDEXIS XG software for panoramic images here as well.

Start now

Your easy entry to the world of digital X-ray will enable you to reap all of its advantages immediately: Images are generated with a considerably reduced radiation dose and are available immediately, since the troublesome development of film in the darkroom is omitted completely (no more chemicals!). In comparison to the storage plate, a fully digital system offers the advantage that time-consuming intermediate steps can be omitted.

Work more flexibly

You can achieve greater flexibility by interconnecting your PCs to form a network. No matter where you are, you can retrieve all patient data from any location in the practice. You profit from the automatic link between your management or orthodontic analysis software and the X-ray software through lower administrative costs. Data backup is extremely easy throughout the entire practice network.

Choose the right partner

For you, your entry to the world of digital X-ray with Sirona will be a very special step toward your own personal success. Because all of the digital components can be installed either as a stand-alone system or as part of a network configuration (Ethernet technology). Any digital X-ray module (except for the USB box) can be integrated directly in the network without a PC link. Inside the network itself, you can retrieve the X-ray images on the monitors of the treatment centers and the CEREC system.

As a full-range supplier, Sirona can offer you integrated practice solutions. Everything fits together. Sirona fulfills your demands as a dentist for innovative and superbly engineered concepts for today's and tomorrow's dental practice.

Your additional benefits through networking:

- Greater flexibility: images and data are available everywhere, since only one database exists
- Easier data backup for the entire practice
- The linkage of the administrative and X-ray software facilitates organization and prevents double data entries

OPTIMAL PRODUCT LINE

Stand-alone or in the network – everything fits together.



*Sirona – everything fits:
Digital X-ray can be optimally integrated in the workflow the way you are accustomed to from using SIROCAM and SIVISION on your Sirona treatment center.*

Digital X-ray directly at the treatment center: convenient, saves time and increases diagnostic reliability (test exposures).

*Intraoral X-ray stations, the connection points for intraoral sensors:
– X-ray box directly attached to the C1+ treatment center
– Wall box, can also be integrated in the network without its own PC
– PC slide-in module, stand-alone or integrated in the network as a compact solution*



*Wall box:
Network-capable wall box with sensor (also available in version mounted on treatment center).*

*Optimal connection:
With an image acquisition card for digital X-ray and plug connections for intraoral sensors. Ideal in connection with HELIODENT DS from Sirona.*

*HELIODENT DS:
The optimal intraoral X-ray tube unit for digital images with Sirona.*



*The mobile USB box:
This intraoral X-ray station accesses the common database via PC or laptop.*

*XIOS USB module:
multistation capability, optimal image quality powered by CMOS sensor technology and flat, streamlined sensor for especially easy placement.*

*CEREC:
Direct viewing of digital X-ray images on the CEREC monitor.*



*Digital panoramic X-ray:
Fewer PCs, more flexibility: The ORTHOPHOS in the X-ray room does not necessarily have to be connected to a PC, since it can be connected directly to the network instead. However, the image data it supplies to the network can be evaluated on any PC in your practice.*

*SIDEXIS XG X-ray software:
For intraoral, panoramic and cephalometric X-ray, this software is compatible with the practice management, orthodontic analysis and maxillofacial surgery software.*

*Server:
Recommended for network configurations: A powerful computer used as a central database and to back up all data. The data flow is controlled via a switch. By the way, network components can also be linked without cable connections via WLAN.*



OPTIMUM INVESTMENT

Secure returns you can count on.

Fast return

The question isn't whether digital X-ray pays off, but rather, how fast it pays off. When comparing "digital to analog," a comparison of the acquisition costs alone is not sufficient. The investment in digital X-ray is higher only at the outset. However, all of the peripheral devices are not needed, i.e. following the write-off of the acquisition costs incurred, you X-ray more or less free with digital X-ray. Following longer periods of utilization, the digital units yield a big profit. Personnel costs are reduced and material costs are eliminated altogether. For newly established practices, digital X-ray with Sirona thus pays off for you from the very first minute.

Keep pushing forward

Want to start small? No problem! If you would like to digitize your practice step-by-step, Sirona is your best choice. The modular design of the entire digital X-ray system and the fact that the individual image acquisition modules are completely network-capable enable subsequent integration of such stand-alone components in a practice network with full utilizability. Investments in Sirona systems are therefore always future-oriented.

More freedom

Digital X-ray units from Sirona are not necessarily linked to any specific PC, since an image acquisition card (XAB) is already integrated in all digital ORTHOPHOS systems and in the intraoral X-ray boxes. The ORTHOPHOS unit and digital X-ray box can thus be connected directly to the network without an additional PC. On the other hand, control is possible via any PC linked to the network by means of any intraoral X-ray box or via the ORTHOPHOS. And any intraoral sensor can be used on any wall box in the network. Immediately following the exposure, digital X-ray images are automatically stored in the patient database. Your advantage: You require fewer PCs for control and have more selections when configuring your practice network.

New chances for success

Take advantage of your entry to the world of digital X-ray by increasing your efficiency. Profit from the space thus saved with added value in your practice. Change your former darkroom to a prophylaxis room so that you can offer additional services to your patients.

Your benefits regarding cost-effectiveness:

- No peripheral devices
- Longer periods of utilization
- No follow-up costs
- No additional personnel costs
- Modularly upgradeable design
- One software for all imaging techniques from Sirona
- PC-independent hardware (XAB)
- PC savings
- Enhanced added value for the practice

With digital X-ray, variable costs are eliminated completely:

Cost comparison	Digital	Film-based
Fixed costs	IO-/Pan-/Ceph-unit PC	IO-/Pan-/Ceph-unit Film processor Darkroom
Variable costs		X-ray films Chemicals Laborcosts for film development, cleaning etc.

OPTIMAL – DIGITAL INTRAORAL X-RAY

More comfort for your patients, more time for you.

Once a pioneer, now with vast experience!

Intraoral X-ray makes sense only if the X-ray tube unit and the sensor are perfectly coordinated. A company that, like Sirona, has 100 years of experience in X-ray technology can fulfill this requirement. Sirona's competence in the field of digital X-ray with sensors is also based on many years of experience. This is reflected in a consistent orientation toward practical solutions which always aim for maximum dependability in routine daily work. The short exposure times and precision multipulse technology of the HELIODENT DS from Sirona make it the ideal system for digital intraoral X-ray in your practice.

Get to the point!

With HELIODENT DS, the lightweight intraoral X-ray tube unit, and SIDEXIS intraoral sensors, you always get to the point immediately with your diagnosis. How? Precisely through razor-sharp digital images in real time exactly where you want them; that is, directly at the treatment center.

HELIODENT DS

Very good image quality with the minimum dose:

- 60 kV multipulse X-ray tube unit – for ultra-fine detail resolution and high detail sharpness

Easy operation:

- Flexible, sure positioning support arm with large range: 1520, 1810 or 2060 mm
- Practical combination rotary knob with patient and numeric symbols for fast adjustment of the exposure time

XIOS intraoral sensors

Precise image quality in seconds

- Modern CMOS sensor technology enables excellent image quality for the widest variety of patients.
- USB 2 interface guarantees data transmission to the computer virtually in real time.

Almost as easy to position as conventional X-ray film:

- The XIOS sensors are flat and have rounded edges. This makes them unusually easy to position in the patient's mouth.
- As always with Sirona, the cable lug is located on the rear side of the sensor, where it requires the least amount of space and is optimally protected.

More flexibility for your practice

XIOS sensors cover the entire intraoral exposure spectrum with 2 sizes:

- Size 1: For children and cramped conditions – active surface of 20 x 30 mm
- Size 2: For displaying 3 molars of adult patients and for bite wing exposures – active surface of 25.6 x 36 mm

Network interfacing is child's play!

Flexible connection option:

The right solution for every situation. The intraoral sensor can be used on the following X-ray stations:

- X-ray wall box
- X-ray box on the dental treatment center
- XIOS USB module

All stations can be operated either as stand-alone units or in the network; only the USB box is controlled indirectly via the PC.

Optimum image resolution:

The theoretical resolution of Sirona intraoral sensors is 25 line pairs (LP) per mm with a pixel size of 19.5 µm. However, Sirona uses the practice-oriented 2x2 pixel binning.

The advantages:

- Lower dose than with 1x1
- Smaller image files, practical for image communication and archiving
- Optimal ratio between resolution, noise and dose requirement
- Very good image quality, perfectly adapted to the practical requirements of dental diagnosis.

HELIODENT DS:

The compact lightweight among intraoral X-ray tube units.

SIDEXIS intraoral sensors:

with CCD sensor technology.

Rinn sensor holder system



OPTIMAL – DIGITAL PANORAMIC X-RAY

More perspectives for your practice.

Vision gives you a head start!

As one of the co-inventors of film-based panoramic X-ray, Sirona has been a pioneer in digital panoramic and cephalometric X-ray technology dating from 1996. Benefit from the vast experience we have gained through the thousands of installed digital panoramic and cephalometric X-ray systems with CCD sensors that have been proving their reliability every day worldwide. Profit from Sirona's superior technology, which is totally focused on the user's requirements, as manifested by outstanding image quality, easy operation and extremely high reliability in routine daily operation. Sirona enables users to have the film-based panoramic units they currently use upgraded for digital operation.

With the ORTHOPHOS XG family, Sirona offers you the right unit for every dental requirement, from basic diagnosis with the XG 3 to individual specialist programs with the XG^{plus}.

ORTHOPHOS XG^{plus} DS full version

The specialist for diagnosis

Panoramic programs selectable in the following versions:

- Standard orthoradial
- With a constant magnification of 1.25
- In artifact-free display
- 6 temporomandibular programs
- 4 sinus programs

Optional:

- 4 cephalometric programs
- 4 transversal slice programs

Individual adaptations to the patient are possible:

- Automatic adaptation of the jaw width
- Anomaly correction
- Manual adjustment of jaw shape in the anterior tooth region

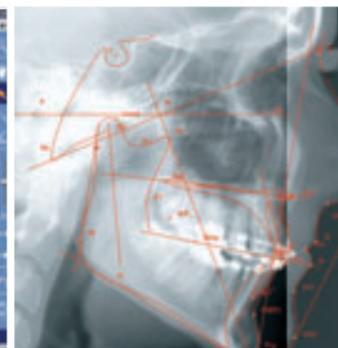
Excellent image quality with the minimum dose:

- 90 kV multipulse X-ray tube unit
- Reliable patient immobilization
- Automatic adaptation of slice position to the patient's head width
- Spinal compensation by automatic kV increase

Convenient, simple operation:

- Light localizers for faster patient positioning
- Comfortable motorized adjustments
- Easypad with pictographic touch screen, mapping of all important information, easy recognition and selection of the desired functions.
- Automatic storage of exposure parameters and positioning data

For more information on ORTHOPHOS XG 3, XG 5 and XG^{plus}, please refer to the relevant product brochures.



Digital panoramic X-ray image: The best image quality in just seconds.

Digital transversal slices: In connection with a panoramic exposure, they enable the precise localization of individual details and are a valuable aid in the fields of maxillofacial surgery and implantology. In combination with the special sensor, the very thin slices (between 0.9 and 4 mm thick) yield images with a high information content.

Lateral skull radiograph after evaluation with FR-WIN6 and a Konkret AG computer: SIDEXIS is of course compatible with all successful orthodontic analysis software packages.

Skull radiograph p.a. Carpus (hand/wrist) exposure

ORTHOPHOS XG^{plus} and XG 5 also optionally available in Ceph version.

Convenient, simple operation of the ORTHOPHOS XG^{plus} via the Easypad.

Easy operation of the ORTHOPHOS XG 5 and XG 3 with the Multipad.