THE 2D X-RAY FAMILY



AS VERSATILE AS PRACTICE LIFE.

The ORTHOPHOS 2D X-ray family offers the right solution for every practice. From entry into digital radiography to the perfect solution for your area of specialty — Sirona offers a product family sophisticated in every way with the ideal solution for every dentist. **Enjoy every day. With Sirona.**



UNBEATABLE DIGITAL ADVANTAGES.

Digital Imaging is becoming the standard in more and more dental practices. The benefits are obvious: lower radiation exposure and more brilliant images accompanied by more efficient data management. At the same time, both treatment methods and practice services can be clearly explained to the patient.



In the digital practice, the many benefits start when the patient registers at the practice.



With numerous analysis tools, your high-resolution X-ray image can be optimized for diagnosis in SIDEXIS 4.

- Outstanding image quality with the lowest dose
- Optimum workflow to work more efficiently
- O A variety of analysis tools for simplified diagnosis
- O Elimination of the darkroom for more room in the practice
- Better patient integration
- Professional marketing of practice services
- No development with toxic chemicals



Diagnoses and treatment recommendations can be discussed with the patient on the monitor directly.



FAST, ACCURATE AND SAFE WORK.

Sirona imaging units distinguish themselves through easy operation and safe positioning, and ensure efficient workflows. Incomparable image quality allows accurate diagnosis and planning. With Sirona, you trust a global brand with hundreds of thousands of units in practice distinguished by their MADE IN GERMANY quality.





PROVEN SOLUTION



EASY OPERATION, SAFE POSITIONING.

Sirona offers unique patented solutions for operating the units and positioning the patients. Optimize your practice workflow with intuitive user interfaces and automatic positioning aids that eliminate unnecessary corrective scans and waiting times.





The patented occlusal bite block

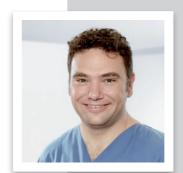
Position the patient with the patented occlusal bite block. The unit automatically determines the correct tilt of head and indicates it using corresponding symbols and colors – all you need to do is press the up and down arrow.





Stable positioning for high-quality images

Stable patient positioning prevents motion blurring. The motorized 3-point head fixation and stable handles give your patients the necessary support. At the same time the integrated temple width measurement ensures an orbit specific to each patient and thereby results in high image sharpness.



PD Dr. Dr. Lutz Ritter, Oral and Maxillofacial Surgery, Hennef

"THE NEW POSITIONING TOOLS MAKE FOR GOOD IMAGING."

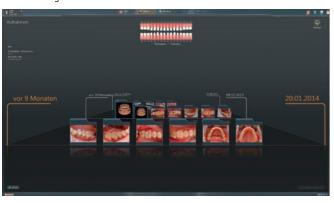
"Positioning with the ORTHOPHOS SL is very easy for our team. The many aids such as automatic light localizers, illuminated height adjustment buttons and intuitive program selection allow us to work efficiently with very good image quality. In combination with SIDEXIS 4, we have a comprehensive package that gives us absolute confidence in the findings."

symbols makes it simple to use. It is geared to your practice workflows and it helps the entire practice team to use the software intuitively.



Simple overview of the patient history

The timeline gives us a quick overview of the entire history of the patient. This allows you to add a time dimension to your diagnostic options in a very intuitive way.



Compare images directly

Ideal for a comprehensive diagnosis: In the lightbox, 2D and 3D images as well as camera images and facescan data can be compared side-by-side.



WORKING DIGITALLY IS THIS EASY.

SIDEXIS 4 – this is the core of the digital workflow with Sirona.

The software with its intuitive user interface has a very simple structure: it follows the clear structure of your work processes and provides you at all times with all visual data of your patients seamlessly and at a glance — whether 2D, 3D or intraoral. This integrates your patients optimally and thus results in a high acceptance of your treatment proposal. SIDEXIS 4 stands for real imaging efficiency.



- Modern design
- O Software platform for all Sirona x-ray units
- O Intuitive operation, optimally coordinated workflows
- O Simple overview of the patient history thanks to the intuitive timeline
- Easy export of DICOM data sets
- O Interface of the integrated solutions from Sirona

MAXIMUM IMAGE QUALITY WITH THE LOWEST DOSE.

The ORTHOPHOS family has been developed according to the ALARA principle to allow the best X-ray images with the lowest radiation dose. All programs and image parameters are tailored to the specific diagnostic tasks while offering you more diagnostic options and gentle treatment at the same time.





The QuickScan function

The QuickScan function allows faster exposure cycles at a low radiation dose.

This makes it easier to take panorama and cephalometric images of children, for example.

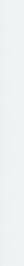


Use the framing function to select the region of interest if only a specific area of the volume is required for diagnosis. The advantage is that you can work at a lower dose



Pediatric panoramic imagesThe horizontally and vertically reduced pediatric panoramic program achieves outstanding image quality with the lowest dose.



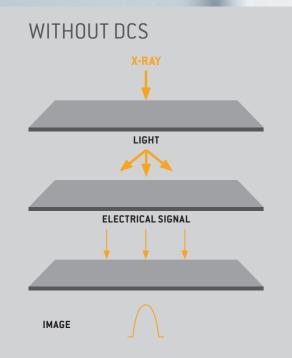


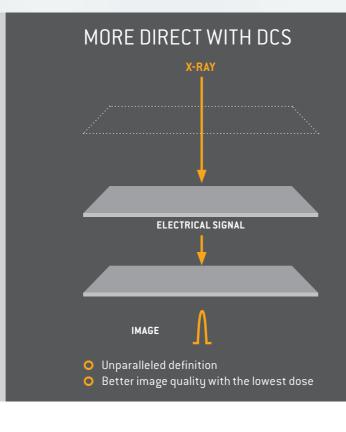
CHRECT CONVERSION SENSOR

SHARPNESS DOWN TO THE SMALLEST DETAIL.

Experience the future of panoramic imaging with the Direct Conversion Sensor (DCS)*. X-rays are converted directly to electrical signals — no signal loss due to light conversion in contrast to conventional systems. Your advantage: incomparable definition.

* In the ORTHOPHOS SL only.





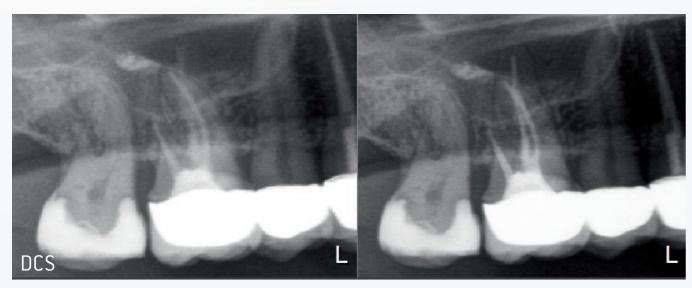


Direct Conversion Sensor (DCS)
Unparalleled image quality with the lowest dose: The Direct Conversion Sensor in the ORTHOPHOS SL converts X-rays directly to electrical signals. This leads to less signal loss and an improved yield of image information. This results in very high-definition images — even at an extremely low dose.

BETTER IMAGES, MORE ACCURATE FINDINGS.

The sharp layer technology automatically adapts the panoramic curve to the patient's individual anatomical features, ensuring that the entire jaw is always in the sharp layer. Manual pre-selection of the dental arch and tooth anomalies is eliminated. Special cases such as displaced teeth are no problem because you can define an image detail of your choice to focus in on lingual/buccal objects after scanning thanks to Interactive SL — for determining position without corrective scans.

RELIABLE DIAGNOSES EVEN IN THE MOST DIFFICULT CASES



Thanks to Interactive SL, you can easily focus in on the required palatal / buccal objects without corrective scans even in special cases such as the hidden tooth root at the top of the image.



EXPERIENCE THAT YOU CAN RELY ON.

Over 100,000 ORTHOPHOS units have already been installed in practices around the world. They impress their users with their high German quality standards, proverbial reliability in use and ease of operation. Reliable after-sales support and topical product training provide additional peace of mind.



Sirona is a pioneer in the field of imaging. We have been establishing new methods for 120 years — but only when they really do provide a simpler solution to challenges and allow you to work safer, faster and more economically — and all to the benefit of the patients. The ideas that our 200+ developers are pursuing are becoming products that you can absolutely rely on in everyday practice thanks to our extensive experience.

You notice it when you work with an ORTHOPHOS unit. The workmanship is first-class — Made in Germany. If you choose Sirona, you choose a solution built on viable, sustainable products that represent a first-class technological solution not only today, but in the future time and again.



"Made in Germany" quality and future viability: At the Center of Innovation in Bensheim, Germany, Sirona products are developed for the highest demands.



WHICH ORTHOPHOS IS RIGHT FOR YOU?

Whether personal preferences, specialization or price/performance, every dental practice has its own requirements for an X-ray unit. Here is a quick overview of which ORTHOPHOS is right for you.

OVERVIEW OF UNITS

ORTHOPHOS SL 2D

The ORTHOPHOS SL 2D offers the highest image quality for demanding diagnoses with the lowest dose. The unit can be equipped with an optional cephalometric arm and a 3D module to grow with your practice.

ORTHOPHOS XG 3D^{ready}

The ORTHOPHOS XG 3D^{ready} is the ideal partner for dentists and group practices looking for a unit that can be easily upgraded to 3D for possible future applications.

ORTHOPHOS XG 5

With temporomandibular joint, sinus, bite wing and pediatric panoramic programs,

ORTHOPHOS XG 3

A practice-oriented, high-quality and reliable solution for entry into digital X-rays and that with an exceptional value for money.

WHICH UNIT IS THE ONE FOR YOU?

	Unit	ORTHOPHOS XG 3	ORTHOPHOS XG 5	ORTHOPHOS XG 3D ^{ready}	ORTHOPHOS SL 2D
	Target group	General dentistry	General dentistry, orthodontics	General dentistry, orthodontics, specialist dentistry	General dentistry, orthodontics, specialist dentistry
	Ceph retrofit options	-	Optional ceph arm left	Optional ceph arm right/	Optional ceph arm right/ left
	3D retrofit options	-	-	Up to an FoV 8 cm x 8 cm	Up to an FoV 11 cm x 10 cm
ı	2D technology	Lanex (optional CSI)	Lanex (optional CSI)	CSI	DCS
	Available				

VERSATILITY HAS MANY FANS.

The ORTHOPHOS product range has the ideal unit for every practice. Every user finds the right functions and workflow options within the variety of units that make their individual work processes even more efficient.



"ORTHOPHOS SL — THE PERFECT PARTNER FOR THE ORTHODONTIC PRACTICE."

"The entire team is excited about the ORTHOPHOS SL 2D. Patient positioning is simple, program selection intuitive and displayed images make diagnosis easier. Cephalometric images, for example, contain outstanding accuracy of detail, contrast and sharpness and are perfectly suited for orthodontic analyses and tracings."



Dr. Hanna Ritte Orthodontics,



"FIT FOR NOW – FIT FOR THE FUTURE."

"My ORTHOPHOS XG 3D^{ready} brings me into a new dimension of diagnostics due to its outstanding image reproduction. And you can even upgrade the unit for future challenges!"



Dr. Magdalena Kyriasi-Schmalenberg, Orthodontics, Sinsheim



Dr. Dr. Peter Gebhardt, Oral and Maxillofacial Surgery, Heppenheim



"The program variety of the ORTHOPHOS XG5 offers numerous advantages. Whether a cephalometric and panoramic program or even sinus and bite wing images, together with the digital tools, new and better diagnostic options are made available."



"THE PERFECT 2D UNIT FOR ENTERING THE DIGITAL WORLD OF X-RAYS."



Dr. med. dent. Paul Rau, MSc, Edenkoben

"Digitalizing my imaging process was definitely the right decision and I have the right partner on my side with the ORTHOPHOS XG3. As equipped, the ORTHOPHOS provides me with the perfect unit for everyday use."



ORTHOPHOS SL 2D

For a user-friendly, optimum workflow, the ORTHOPHOS SL 2D combines revolutionary image quality with incomparable patented positioning aids.

The ORTHOPHOS SL is the latest member of the successful Sirona 2D x-ray family. It wins points for functionality, quality and design. With the DCS sensor and SL technology, the ORTHOPHOS SL 2D even satisfies the wishes of those dentists who have the greatest demands regarding panoramic imaging and is a symbol of incomparable definition in every image, in combination with the stable positioning from the 3-point head fixation, stable handles and patented occlusal bite block. In combination with the pioneering SIDEXIS 4 software, the ORTHOPHOS SL also offers a

unique variety of innovative solutions for the practice workflow. Investment security is ensured: ORTHOPHOS SL 2D can be equipped with a ceph arm or upgraded to 3D with a volume of up to $11\,\mathrm{cm}\,\mathrm{x}\,10\,\mathrm{cm}$.

Patients appreciate the soothing Ambient Light, which offers a choice of over 30 colors for a pleasant atmosphere in your X-ray room that fits perfectly into the look of your practice.





Ceph arm

The ceph arm can be mounted on the left or right side of the unit and provides detailed, high-contrast cephalometric images perfectly suited for orthodontic analyses and tracings.



Sharp Layer technology

Thanks to the SL technology, you not only get high-resolution panoramic images in the sharp layer, but can respond interactively within the image to special cases (lingually/buccally) – without additional imaging.



DCS for incomparable image quality

Use the most innovative sensor technology and benefit from high-resolution images with incomparable definition for a detailed diagnosis.



ORTHOPHOS XG 3D^{ready}

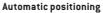
Just a small step to 3D: With ORTHOPHOS XG 3D^{ready}, the range of services can be expanded with a 3D module at any time.

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. The intuitive EasyPad control panel and automatic patient positioning with the occlusal bite block ensure an efficient workflow. And last but not least, you can upgrade your ORTHOPHOS XG 3D^{ready} to a 3D unit at any time. You gain more confidence, for example, in cases that you want to implant yourself.

ADDITIONAL PROGRAMS*

- O (P2) Standard panorama without ascending rami
- Additional versions with the panoramic programs:
 - Individual quadrants
- Artifact-reduced
- 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
- O (TM2-TM6) (TM1-TM2) Temporomandibular joint lateral/axial
 - With adjustable radiation angle
 - With open and closed occlusion
 - With a slice position
- (C3) Ceph image lateral with optional panning
- O (BW2) Bite wing program for the anterior tooth region
- O Additional versions with the bite wing programs:
 - Optional panning left/right with BW1
- O (S2-S4) Sinus program
 - Maxillary sinuses in one/two images
 - Maxillary sinuses in one/two images (linear)





It's now easier than ever to position the patient – the patented occlusal bite block automatically indicates on the EasyPad when the patient is in the correct plane. Together with the light localizers and 3-point head fixation, unnecessary corrective images are avoided.



Convenient operation

Your practice team can quickly and easily recognize the functions required on the EasyPad. A preview image appears directly after scanning.

^{*} Compared to ORTHOPHOS XG 5



ORTHOPHOS XG 5

Wide variety for perfect results: With additional programs, the ORTHOPHOS XG 5 offers more diagnostic options.

Simple operation and variable features: ORTHOPHOS XG 5 is the solution for general dentists and orthodontists. With its additional programs, it offers even more diagnostic options. 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.

Ideal for orthodontists – the ceph arm

The optional ceph arm makes all important views available to orthodontists. In addition to the usual cephalometric programs for lateral, symmetric and carpus images, a variety of special projections are possible, such as the Clementschitsch exposures.

More clarity in the images — thanks to ASTRA

No black borders around metal fillings, no excessive contrast. Thanks to CSI and ASTRA, you achieve images that impress by their specific clarity, thus ensuring fast and reliable diagnosis.

ADDITIONAL PROGRAMS*

- (P10) Pediatric panorama with beam field reduced in height and length to reduce the radiation dose
- (P12) Thick slice in the anterior tooth region, e.g., for extreme anomalies
- O (S1) Sinus program for the imaging of paranasal sinuses
- (MS1) Multislice in the posterior tooth region for determining the position of displaced molars
- O (BW1) Bite wing exposure for the posterior tooth region
- (C1) Posterior-anterior exposure
- (C2) Anterior-posterior exposure
- O (C3) Lateral exposure
- O (C4) Carpus images

* Compared to ORTHOPHOS XG 3







Pediatric panorama.



ORTHOPHOS XG 3

Quality from the very start: The proven standard for practice-oriented imaging.

High-quality. Durable. Safe: The ORTHOPHOS XG 3 is the perfect basic equipment for general dentists. The 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 safe diagnosis quickly and easily. You can reproduce the positioning very easily, since image parameters such as the bite block height are saved together with the image data. There is a bite wing program that helps in special cases and patient situations where intraoral images cannot be used and a shorter panoramic program with reduced dose that is suitable for treating children, for example.

PROGRAMS

- O [P1] Standard panorama with orthoradial beam direction
- (P1L) (P1R) Standard panorama half-sides left and right, e.g. for test exposures
- (P1C) Panorama with a constant magnification of 1.25. For length measurements using a reference object
- (P1A) Panorama with artifact reduction. For patients with numerous metal fillings
- (TM1.1/TM1.2) Lateral temporomandibular joint with closed or open occlusion. For functional diagnostics
- (BW10) Bite wing program, e.g., as a replacement for intraoral images (patients with pharyngeal reflex)
- (P20) Panoramic radiography without ascending rami, e.g., for treating children



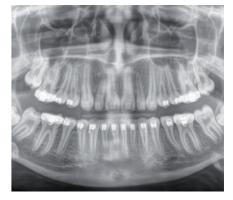
Easy to operate

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



Reliable 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, an image quality for quick and reliable diagnoses is ensured even with the standard sensor.

TECHNICAL PROPERTIES.

	ORTHOPHOS XG 3	ORTHOPHOS XG 5	ORTHOPHOS XG 3D ^{ready}	ORTHOPHOS SL 2D
Programs				
Standard panoramic image	P1, P20	P1, P10	P1, P2, P10	P1, P2, P10
Image detail of left or right- hand side	P1L, P1R	P1L, P1R	P1, P1A, P1C P2, P2A, P2C P10, P10A, P10C BW1	P1, P1A, P1C P2, P2A, P2C P10, P10A, P10C BW1
Image detail of individual quadrants	-	-	P1, P1A, P1C P2, P2A, P2C P10, P10A, P10C	P1, P1A, P1C P2, P2A, P2C P10, P10A, P10C
Image detail of upper or lower jaw	-	-	P1, P1A, P1C P2, P2A, P2C P10, P10A, P10C, P12	P1, P1A, P1C P2, P2A, P2C P10, P10A, P10C, P12
Constant magnification	P1C	P1C	P1C, P2C, P10C	P1C, P2C, P10C
Artifact-reduced	P1A	P1A	P1A, P2A, P10A, TM1A.1, TM1A.2, TM2A.1, TM2A.2	P1A, P2A, P10A, TM1A.1, TM1A.2, TM2A.1, TM2A.2
Thick-layer images of ante- rior region	-	P12	P12	P12
Sinus images	-	S1	\$1, \$2, \$3, \$4	\$1,\$3
Multi-layer images of pre- molars	-	MS1	MS1	-
Temporomandibular joint	TM1.1, TM1.2	TM1.1, TM1.2	TM1-TM6	TM1.1/TM1.2, TM3
Bite wing exposure	BW10	BW1	BW1, BW2	BW1, BW2
Ceph (optional)		C1, C2, C3, C3F, C4	C1, C2, C3, C3F, C4	C1, C2, C3, C3F, C4

PC REQUIREMENTS FOR SIDEXIS 4*

	Minimum requirements	Recommended requirements	
Server PC** Operating system	 Windows 7 Professional Ultimate (64 bit) Windows 8 Pro (64 bit) Windows 8.1 Pro (64 bit) Windows Server 2008 (32 or 64 bit) Windows Server 2008 R2 (64 bit) Windows Server 2012 (64 bit) Windows Server 2012 R2 (64 bit) 	j	
RAM	≥ 4 GB	≥ 8 GB	
CPU	≥ 2 GHz DualCore	≥ 2.3 GHz QuadCore processor with 64 bit (x64)	
Hard disk***	> 675 GB	> 1 TB	
Workstation PC Operating system	 Windows 7 Professional, Ultimate (32 or 64 bit), also under Bootcamp Windows 8 Pro (64 bit) Windows 8.1 Pro (64 bit) 	 Windows 7 Professional, Ultimate (64 bit), also under Bootcamp Windows 8 Pro (64 bit) Windows 8.1 Pro (64 bit) 	
RAM	≥ 4 GB	≥ 8 GB	
СРИ	≥ 2 GHz DualCore	≥ 2.3 GHz QuadCore processor with 64 bit (x64)	
Graphics card	≥ 512 MB	≥1 GB	
DirectX	DirectX 9.0C	DirectX 10 with WDDM 1.0 or higher driver	
Hard disk	≥ 5 GB	≥ 5 GB	



Stable floor stand (optional).



Individual patient positioning even for wheelchair



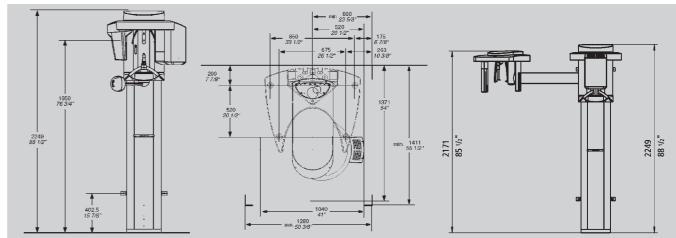
Remote control with display of image parameters (optional).

ORTHOPHOS XG 3 MultiPad	MultiPad Left	EasyPad Left or right	EasyPad Left or right
-	Left	□ Left or right	
-	Left	□ Left or right	
-	Left	□ Left or right	
-	□ Left	☐ Left or right	
		-	☐ Left or right
-			
-			•
	_	•	-
-	-	•	•
-	-	•	•
-	•		-
-	Ceph	Ceph/ 3D 8 x 8 cm FoV	Ceph/ 3D up to 11 x 10 cm FoV
•	•	•	•
-	-	•	•
60-90 kV, 3-16 mA	60-90 kV, 3-16 mA	60-90 kV, 3-16 mA	60-90 kV, 3-16 mA
P1 Standard 14 s max	P1 Standard 14 s max	P1 Standard 14 s max, P1 Quickshot 9 s max	P1 Standard 14 s max, P1 Quickshot 9 s max
Standing/seated	Standing/seated	Standing/seated	Standing/seated
-	9.4 s standard/ 4.7 s Quickshot	9.4 s standard/ 4.7 s Quickshot	9.4 s standard/ 4.7 s Quickshot
At least 66 cm for instal- lation	At least 66 cm for installation	At least 66 cm for installation	At least 66 cm for installation
Approx. 110 kg	Approx. 110 kg	Approx. 110 kg	Approx. 110 kg
•			•
	- 60–90 kV, 3–16 mA P1 Standard 14 s max Standing/seated - At least 66 cm for installation Approx. 110 kg	Ceph Ceph Ceph Ceph Ceph Ceph Ceph Ceph Composition of the com	Ceph/3D 8 x 8 cm FoV P1 Standard 14 s max P1 Quickshot 9 s max Standing/seated Candard 14 s max P1 Standard 14 s max P1 Quickshot 9 s max Standing/seated At least 66 cm for installation At least 66 cm for installation Approx. 110 kg Approx. 110 kg Ceph/3D 8 x 8 cm FoV Ceph/3D 8 x 8

☐ Optional.

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

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



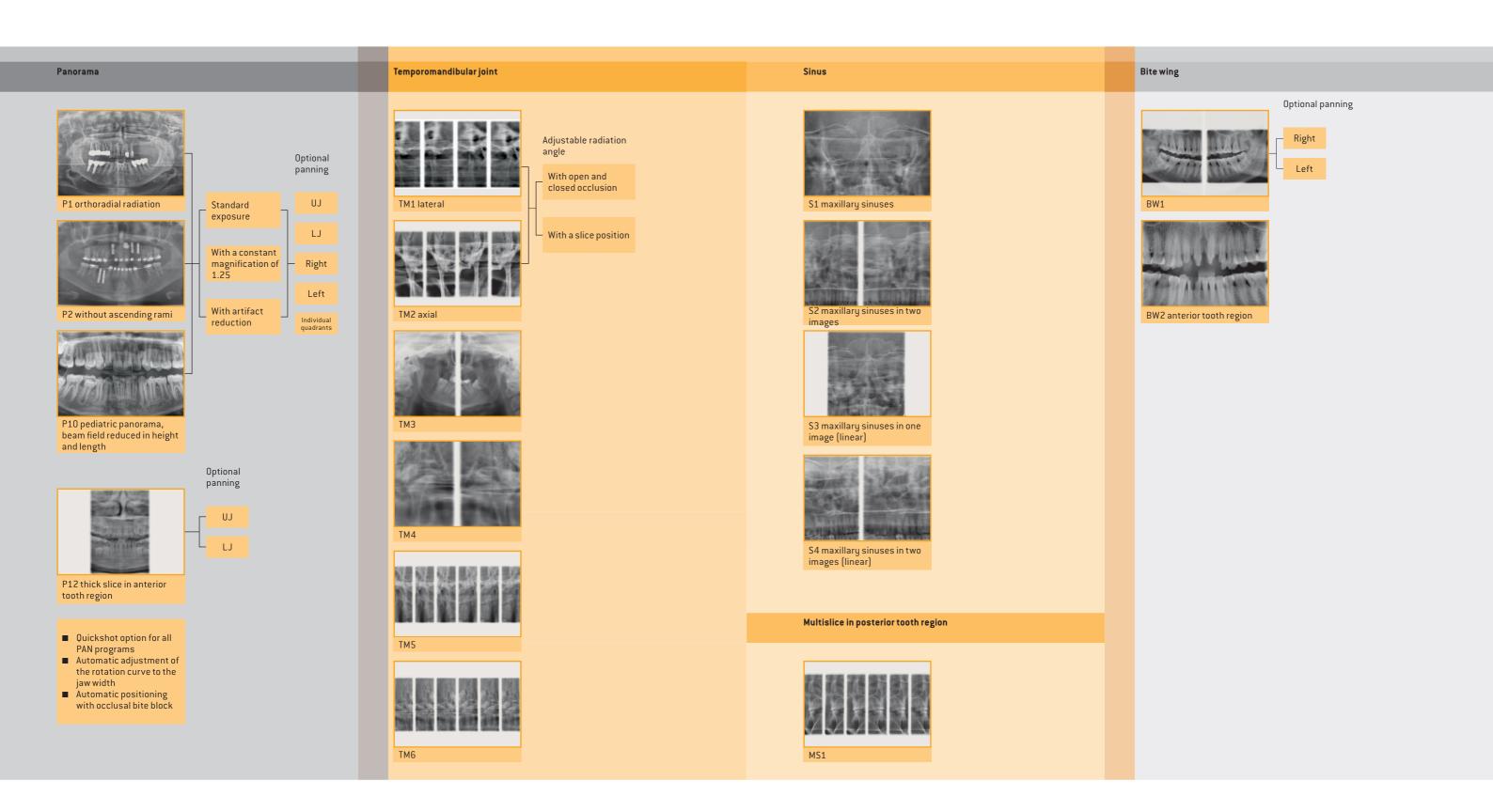
^{*} System requirements of the hardware used may vary.
For more information about system requirements: sirona.de/SIDEXIS4-system_requirements

** Installation on a domain controller is not approved.

*** During operation it must be ensured that there is always sufficient hard disk space available.

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 XL 2D, ORTHOPHOS XG 5 and ORTHOPHOS XG 3. The ORTHOPHOS XG 3 also exclusively offers the bite wing program BW10 and the shorter panoramic scan P20.



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 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.

sirona