

THE DENTAL  
SOLUTIONS  
COMPANY™



# The 2D x-ray family

[dentsplysirona.com](https://dentsplysirona.com)



# 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 – Dentsply Sirona offers a product family sophisticated in every way with ideal solutions for every dentist.





## 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.

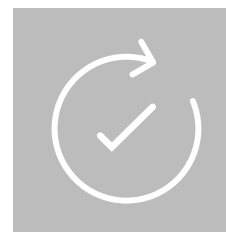
- Outstanding image quality at the lowest dose
- Optimum workflow to work more efficiently
- A variety of analysis tools for simplified diagnosis
- Elimination of the darkroom for more room in the practice
- Better patient integration
- Professional marketing of practice services
- No development with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





## Work quickly, precisely and reliably

Dentsply Sirona imaging units stand out for their simple operation and positioning, thus providing efficient workflows. The unprecedented image quality allows for extremely precise diagnosis and planning. With Dentsply Sirona, you trust a global brand with hundreds of thousands of units in practice distinguished by their Made in Germany quality.



Optimum Workflow



Unparalleled  
image quality



Proven solution



# Easy operation, safe positioning

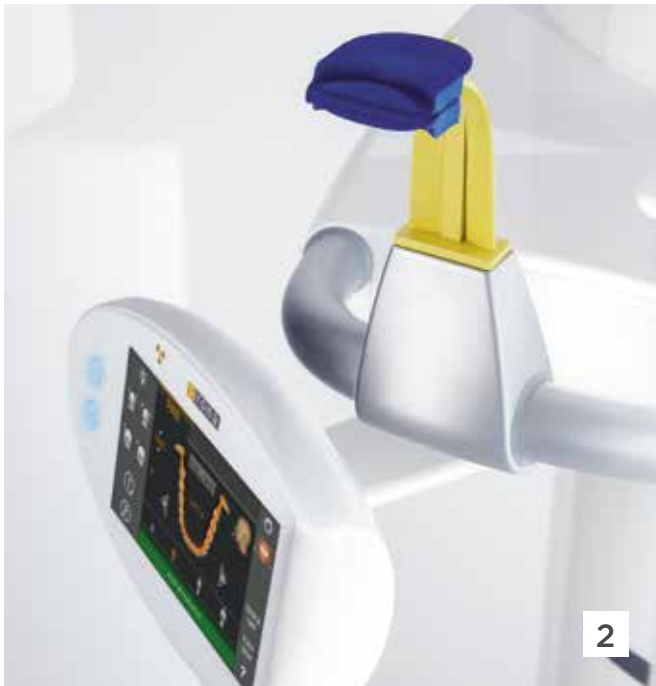
Dentsply Sirona offers unique patented solutions for operating units and positioning patients. Optimize your practice workflow with intuitive user interfaces and automatic positioning aids that eliminate unnecessary corrective scans and wait times.



## 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.”

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



### 1 Intuitive operation

No matter the set up of your X-ray room, the swiveling and tilting EasyPad introduces a high degree of flexibility while clearly arranged buttons and symbols ensure optimum operation.

### 2 The patented occlusal bite block

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

### 3 Stable positioning for high-quality images

Stable patient positioning prevents motion blurring. The motorized 3-point head fixation and stable handles give 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.



## Working digitally is this easy

### Sidexis 4 – this is the core of the digital workflow with Dentsply Sirona.

The software with its intuitive user interface has a very simple structure: it follows the clear structure of your work processes and provides at all times all visual patient data seamlessly and at a glance – whether 2D, 3D or intraoral. This integrates patients optimally and thus results in a high acceptance of the treatment proposal. Sidexis 4 is pure imaging efficiency, providing a quick overview of the entire history of the patient. This allows for the addition of a time dimension to diagnostic options in a very intuitive way. The lightbox is ideal for a comprehensive diagnosis, as it let's you compare 2D and 3D images as well as camera images and facescan data side-by-side.



Simple overview of patient history

## Advantages at a glance

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



## Maximum image quality at the lowest dose

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

### Pediatric panoramic images

The horizontally and vertically reduced pediatric panoramic program achieves outstanding image quality at the lowest dose.



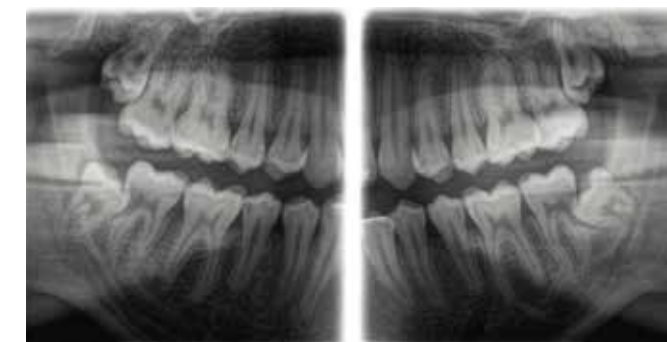
### QuickScan function

The QuickScan function allows for faster exposure cycles at a low radiation dose. This makes it easier to take panorama and cephalometric images of children, for example.



### Lower dose thanks to framing

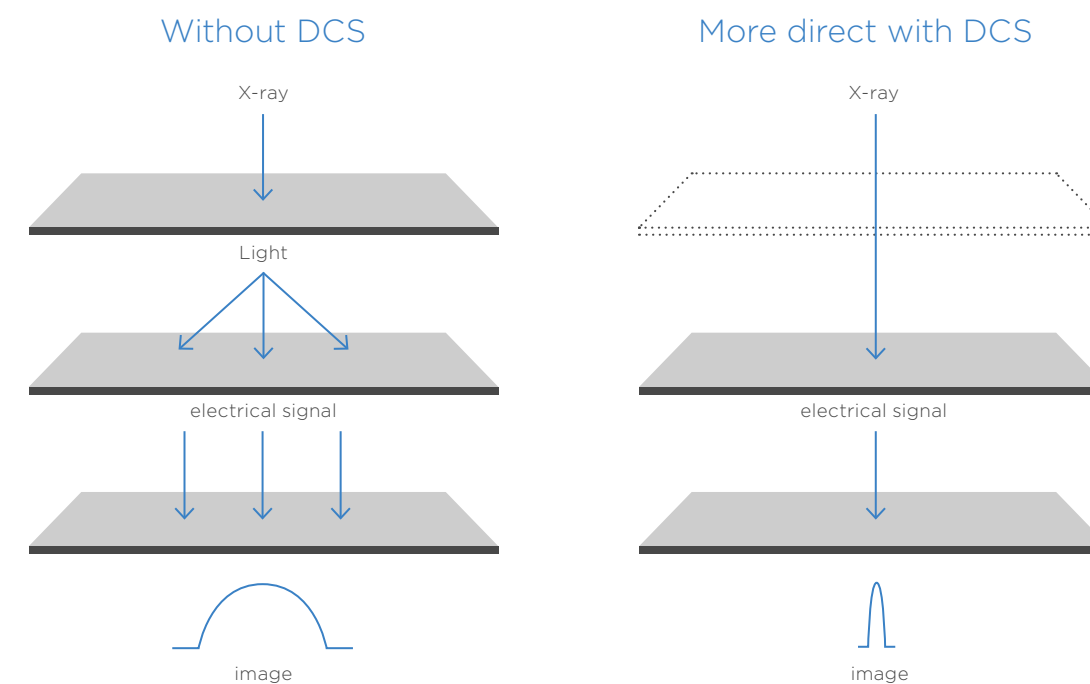
Use the framing function to select the region of interest if only a specific area of the volume is required for diagnosis. The advantage is that you can work at a lower dose.



## DCS – 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 – in contrast to conventional systems there is no signal loss due to light conversion. Your advantage: Incomparable definition even at a very low dose.

\*Only with Orthophos SL.



[dentsplysirona.com/dcs-technology](https://dentsplysirona.com/dcs-technology)

Learn more about our DCS technology on our website



## 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. Thanks to Interactive SL, special cases such as displaced teeth are no problem because you can define the image detail of your choice and focus in on lingual/ buccal objects after scanning. This allows for the determining of 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.



### Smart solution

Dynamic images that are adjustable to the situation.



## Experience you can rely on

Around the world, over 100,000 extraoral imaging units from Dentsply Sirona have been installed in practices. They impress 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.

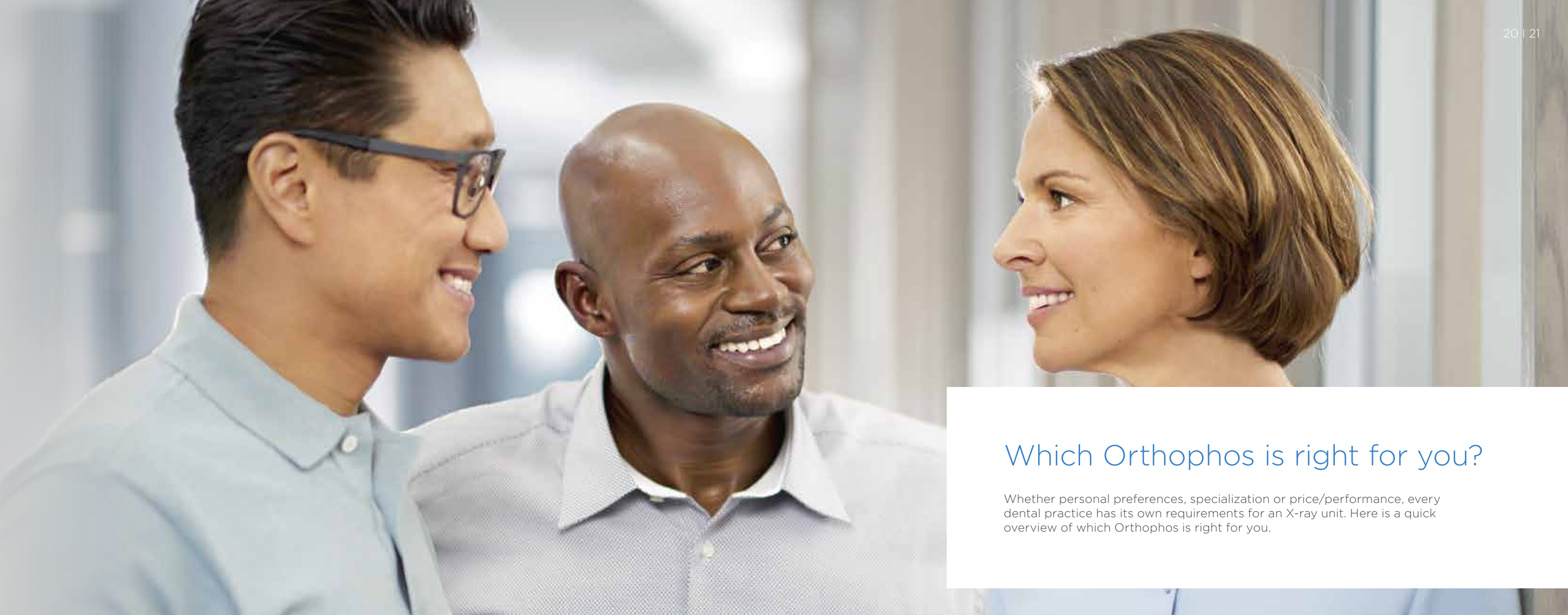
Dentsply Sirona is a pioneer in the field of imaging. We have been establishing new methods for 120 years – but only when they really do provide a simpler solution to challenges and allow for faster, safer and more economic work – and all to the benefit of the patient. The ideas that our 200+ developers are pursuing are becoming products, that can be absolutely relied on in everyday practice thanks to our extensive experience. Such quality is clear when working with a Dentsply Sirona 3D x-ray unit. The Made in Germany workmanship is first-class. Choosing Dentsply Sirona, means choosing 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, Dentsply 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 5 makes a number of diagnoses possible. A cephalometric arm can be ordered optionally for modern orthodontics.
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/left	■ 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
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.

Dr. Hanna Ritter, Orthodontics, Hennef



Fit for now – fit for the future.

Dr. Magdalena Kyriasi-Schmalenberg, Orthodontics, Sinsheim



There is no going back from digital.

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



The perfect 2D unit for entering the digital world of x-rays.

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

“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.”

“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!”

“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.”

“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 you have the most innovative sensor technology at your disposal, delivering high resolution images with a unique level of sharpness. Thanks to the SL technology, you not only reliably receive images in the sharp layer, but can respond interactively within the image to special cases (lingually/buccally) – without additional imaging. This is how the Orthophos SL 2D even satisfies the wishes of those dentists who have the greatest demands regarding panoramic imaging. In combination with the stable positioning from the 3-point head fixation, stable handles and patented occlusal bite block, it is a symbol of incomparable definition in every image.

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 cm x 10 cm. The ceph arm can be mounted on the left or right side of the unit and provides detailed, highcontrast cephalometric images perfectly suited for orthodontic analyses and tracings. 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.

In combination with the pioneering Sidexis 4 software, the Orthophos SL also offers a unique variety of innovative solutions for the practice workflow.



DCS for incomparable image quality



Sharp Layer technologie



3D upgradable to up to 11 x 10 cm



# Orthophos XG 3D ready

Orthophos XG 3D ready is 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 all diagnostic options. The intuitive EasyPad control panel and automatic patient positioning with the occlusal bite block ensure an efficient workflow.



## Automatic positioning

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. Additionally, the remote also indicates the chosen settings again before exposure.

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. The benefit: additional investment security and confidence, just in case you, i.e. want to offer implantology in your practice at a later stage.



# Orthophos XG 5

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

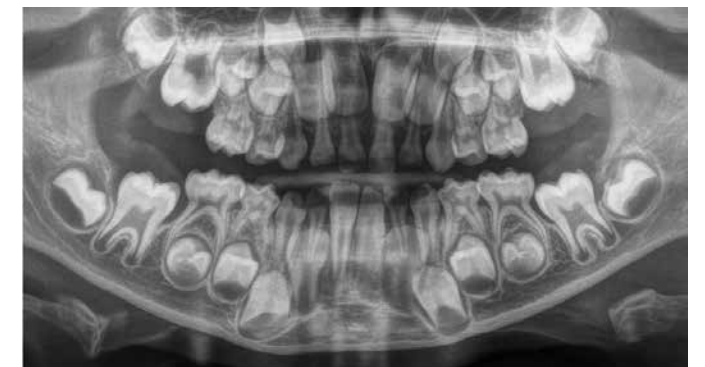
## Simple operation and variable features



Choice of image quality with ASTRA



Choice of image quality without ASTRA



Pediatric panorama

### 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.

### Pediatric panorama

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.

# Orthophos XG 3

Quality from the very start: the Orthophos XG 3 is the perfect basic equipment for general dentists. The unit's easy operation and seamless integration into a practice's daily routines will save valuable time.

The high image quality and proven Sidexis software guarantee safe diagnosis quickly and easily.

## High-quality. Durable. Safe.



Well equipped for everyday practice life: positioning can be very easily reproduced, since image parameters such as the bite block height are saved together with 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 is available with reduced dose that is suitable for treating children, for example.

- 1 Easy to operate**  
Operation of the MultiPad is intuitive. Exposure parameters, for example, are selected via a patient symbol.
- 3 Very good image quality**  
Thanks to ASTRA, an image quality for quick and reliable diagnoses is ensured even with the standard sensor.

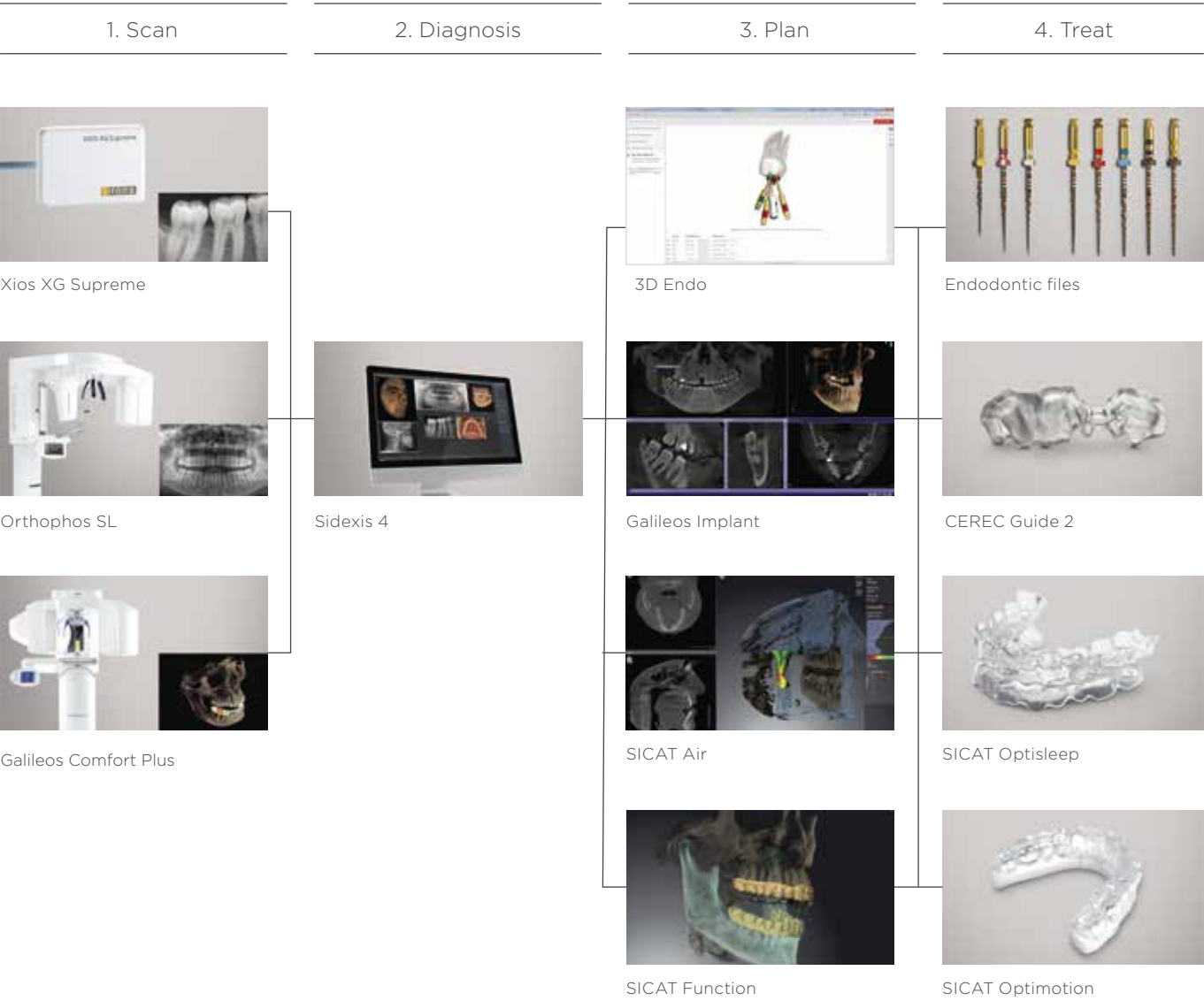
- 2 Reliable positioning**  
Only two light localizers are required for ideal positioning in the sharp slice. The motorized forehead and temple supports fixate the patient's head and prevent motion blurring.



# More than images – real solutions

## More solutions for your practice with X-rays from Sirona.

The Sidexis 4\* with its intuitive user interface and display of all kinds of images on a monitor – whether intraoral, 2D panoramic, or 3D – increases practice efficiency and the accuracy of diagnoses like no other software. But Dentsply Sirona does not stop with the diagnosis – our solutions allow for customized treatment planning for a number of different conditions. The processes remain within practice and patients appreciate the modern, understandable treatment methods. For satisfied patients and reliable work in your practice.

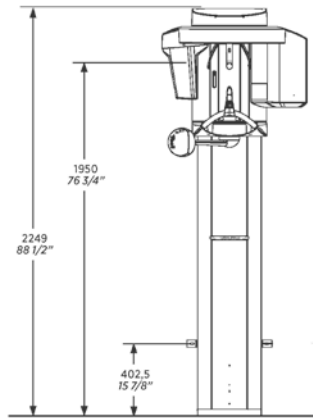


## Technical properties

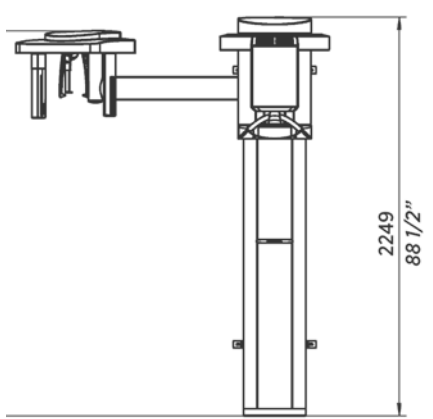
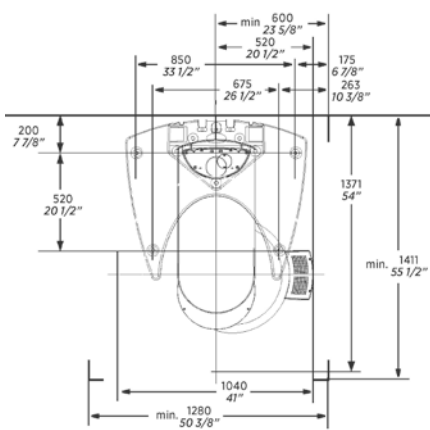
	Orthophos XG 3	Orthophos XG 5	Orthophos XG 3D ready	Orthophos SL 2D
Technical data				
User interface	MultiPad	MultiPad	EasyPad	EasyPad
5-year guarantee (2D/3D) on tubes and sensors	□	□	□	□
Ceph arm (18 cm x 23 cm and 30 cm x 23 cm)	-	□ Left	□ Left or right	□ Left or right
Ceph unit with 2 sensors	-	□	□	■
Quickshot	-	-	■	■
Selectable anterior jaw shape	-	-	■	automatic
Anomaly compensation	-	-	■	automatic
Automatic detection of jaw width	-	■	■	■
Retrofit options	-	Ceph left	Ceph left/right/3D 8 cm x 8 cm	Ceph left/right/3D up to 11 cm x 10 cm
Automatic patient positioning: Occlusal bite block	-	-	■	■
X-ray generator	60-90 kV, 3-16 mA	60-90 kV, 3-16 mA	60-90 kV, 3-16 mA	60-90 kV, 3-16 mA
Panoramic exposure time	P1 Standard 14 s max	P1 Standard 14 s max	P1 Standard 14,2 s max, P1 Quickshot 9,1 s max	P1 Standard 14,2 s max, P1 Quickshot 9,1 s max
Radiation time Ceph 18 cm x 23 cm	-	9,4 s Standard	9,4 s Standard/ 4,7 s Quickshot	9,4 s Standard/ 4,7 s Quickshot
Patient positioning	Standing/seated	Standing/seated	Standing/seated	Standing/seated
Door width	At least 66 cm for installation	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	Approx. 110 kg
Floor stand	□	□	□	□
Wheelchair accessible	■	■	■	■
Remote control	□	□	□	□
Csl sensor	□	■	■	Ceph

■ Available    □ Optional

## Product measurements



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



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

\*For more information about system requirements: [sirona.com/SIDEXIS4-system\\_requirements](https://sirona.com/SIDEXIS4-system_requirements)

## 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 SL 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.

Programs	Orthophos XG 3	Orthophos XG 5	Orthophos XG 3D ready	Orthophos SL 2D
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 anterior region	–	P12	P12	P12
Sinus images	–	S1	S1, S2, S3, S4	S1, S3
Multi-layer images of premolars	–	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



Stable floor stand (optional)



Individual patient positioning even for wheelchair patients

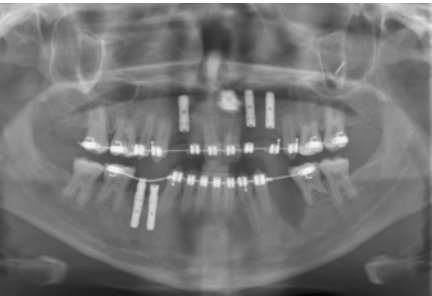


Remote control with display of image parameters (optional)

### Panorama



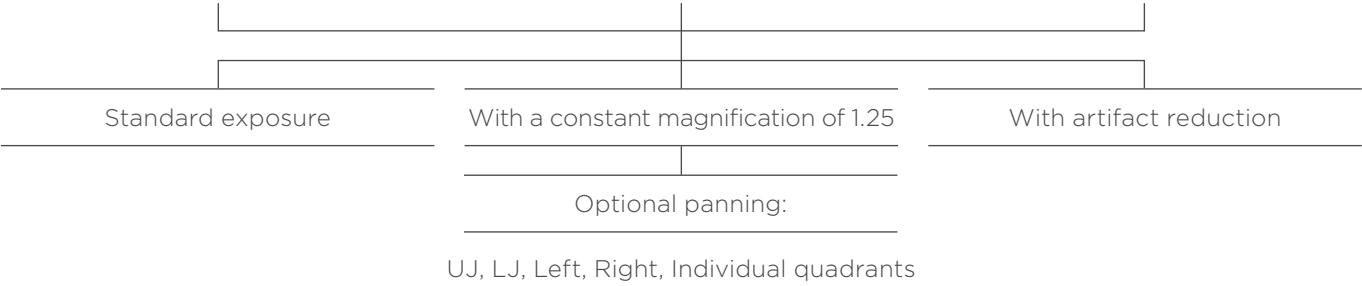
P1 orthoradial radiation



P2 without ascending rami



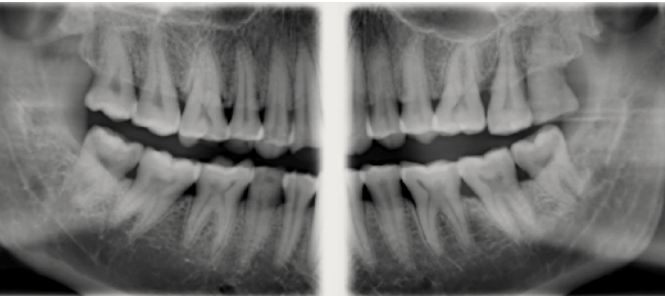
P10 pediatric panorama, beam field reduced in height and length



P12 thick slice in anterior tooth region



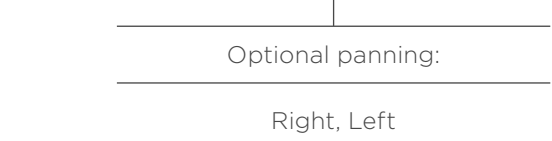
### Bitewing



BW1



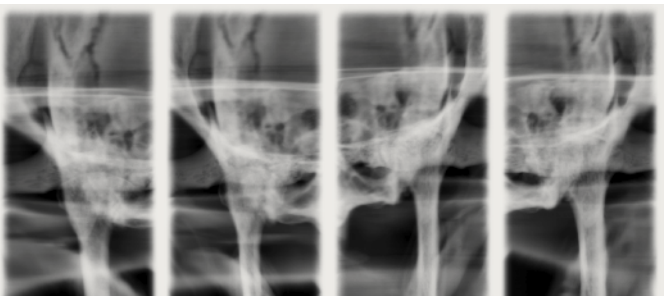
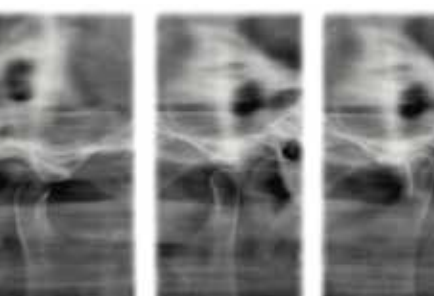
BW2 anterior tooth region



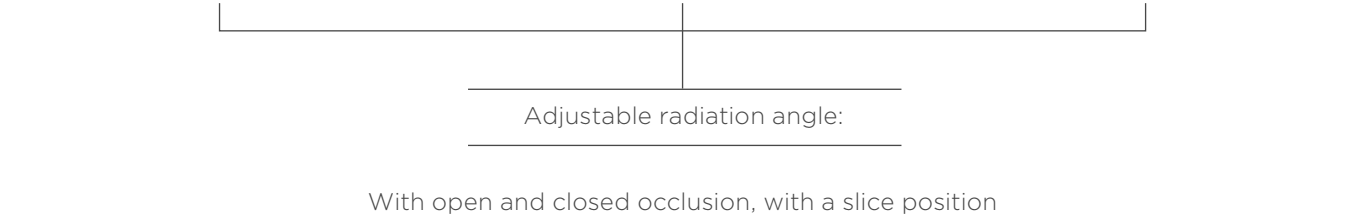
### TMJ



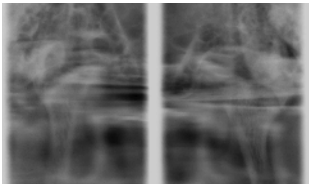
TM1 lateral



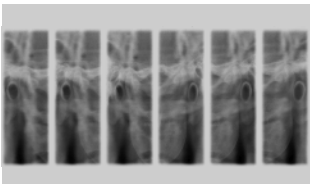
TM2 axial\*\*



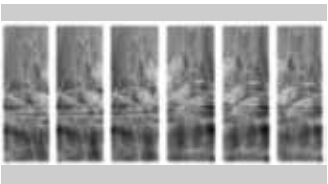
TM3



TM4\*\*

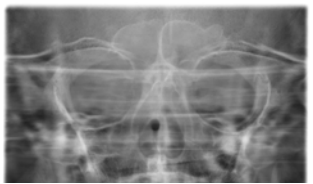


TM5\*\*

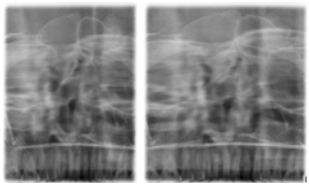


TM6\*\*

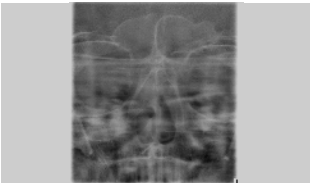
### Sinus



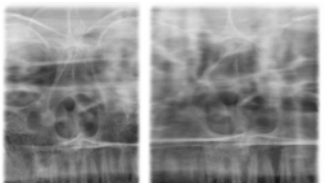
S1 jaw cavities



S2 jaw cavities twice\*\*

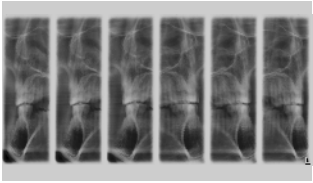


S3 simple jaw cavities linear



S4 jaw cavities twice linear\*\*

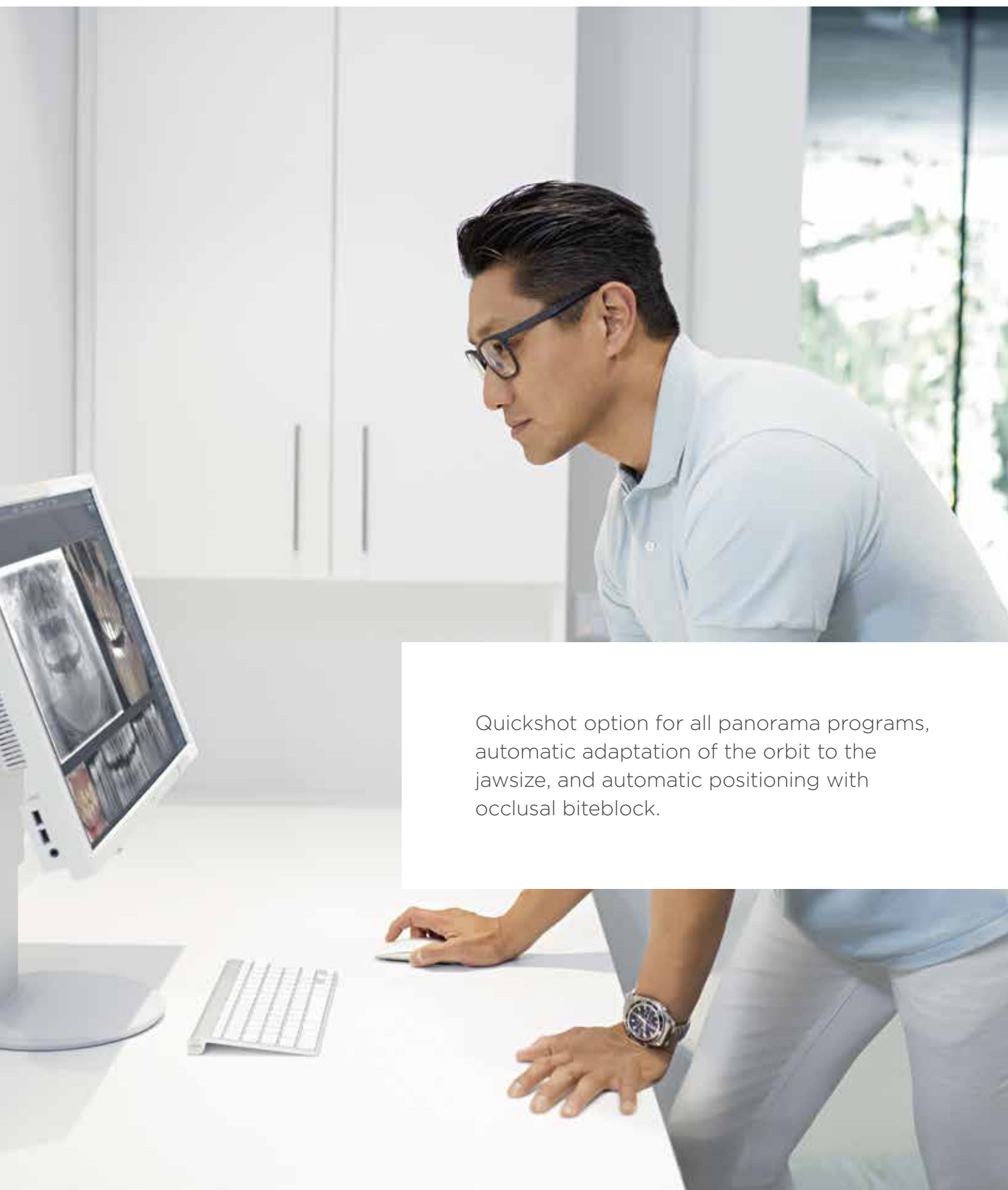
### Multislice in posterior tooth region



MS 1\*\*

This overview shows all 2D programs and the related images of the ORTHOPHOS XG 3D. Differences from the Orthophos SL 3D are marked accordingly.

\*\* Image not available with the Orthophos SL 3D



Quickshot option for all panorama programs, automatic adaptation of the orbit to the jawsize, and automatic positioning with occlusal biteblock.

#### Dentsply Sirona

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