THE DENTAL
SOLUTIONS
COMPANY™

Dentsply Sirona

Intraoral imaging

Advanced technology
for better care

dentsplysirona.com/intraoral

Dentists trust
in Dentsply Sirona

Dentsply Sirona Imaging Systems provide the highest quality diagnostics, equipping you with an array of options to support you and your practice in delivering the best possible care to your patients. We realize that every dental professional is unique in the way you work, which is why our intraoral product portfolio provides a number of custom options to support your individual practice and workflow.

"I have used an array of sensors over the years, but with the new AE sensor from Dentsply Sirona, I saw an immediate improvement in my image quality. With the advanced filtering enhancements and optimizations I am confident that I am seeing all of the clinical details needed to support an accurate diagnosis."

Dr. Douglas M. Schultz, Kansas, USA

"We use Xios XG Supreme sensors together with the Heliodent Plus unit and especially appreciate the high image quality, which really surprised us. And there are also the case-specific setting options in the dynamic focus control that we can use to adjust our images based on the different findings, such as endo or perio cases."

Dr. Stefanie Kloß-Wahlig, Heppenheim, DE

"We could feel the difference immediately after switching to Dentsply Sirona X-ray units. The accuracy and speed is incomparable. I would definitely recommend Dentsply Sirona to any colleague looking for a digital solution."

Dr. Seya Sivendra, Adelaide, AU

"I'm glad about the wide range of X-ray solutions. I can take X-rays in my practice the way I like. I don't have to adjust to the products. The products adjust to me. Regardless of the X-ray unit I choose, the result and route taken are always optimal for me."

Dr. Antoine Hirardot, Le Man, FR

Every practice is different

Each dentist has their own individual needs and requirements, and their practice reflects this – from patient numbers, to equipment, to the practice design and environment. The intraoral product portfolio provides solutions to fit these custom profiles and workflows in order to better service your practice and patients.

Outstanding image quality

Optimum diagnostic reliability thanks to high-resolution images at the lowest dose.

Flexibility through modularity

Enjoy the wide range of modular product offerings, built to support the customization of your individual workflow.
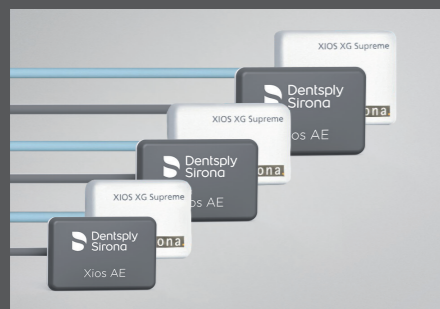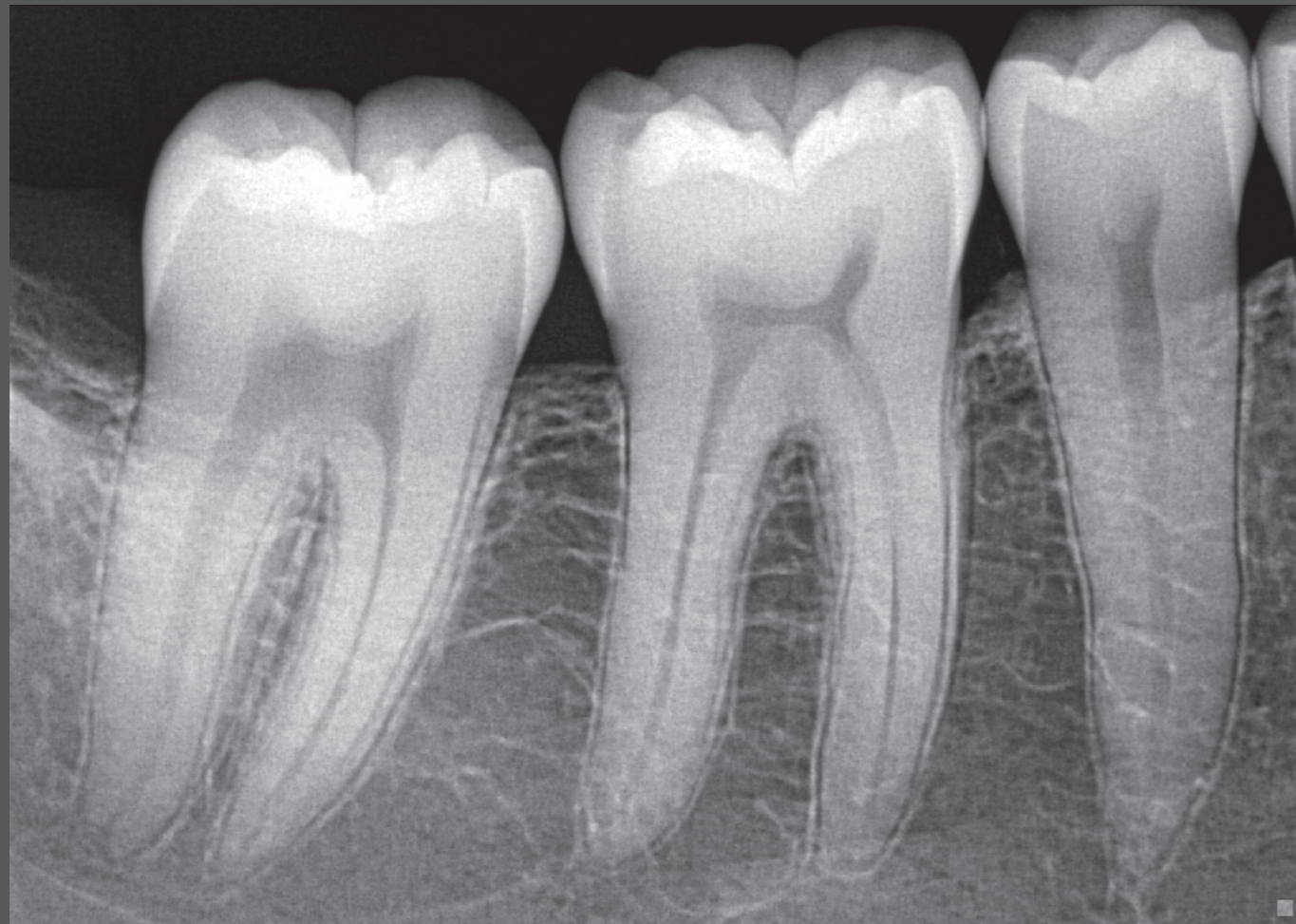
Safety and quality

Dentsply Sirona quality means that your technology comes with the the highest level of durability, reliability and superior craftmanship.

Focus on exceptional image quality

Be it sensors, imaging plates or X-ray generators: The image quality of Dentsply Sirona's intraoral X-ray portfolio speaks for itself – naturally with the lowest dose according to the ALARA* principle.

Through the combination of our intraoral X-ray products, from the X-ray generator to the holder system, the benefits are endless. Take your practice to the next level of intraoral care with Dentsply Sirona Imaging Systems.

Xios AE and Xios XG Supreme

Heliodent Plus

Xios Scan

*As Low As Reasonably Achievable

The right solution for every workflow

Whether you're introducing digital technology to your practice or updating an already fully digital practice, Dentsply Sirona's intraoral product family has the right solution to support your workflows and fit your individual needs.

1 **Heliodent Plus**

The modularity of the X-ray generator, Heliodent Plus, enables it to adapt to your practice's surroundings, forming the basis for optimum X-ray images and allowing quick and safe operation.
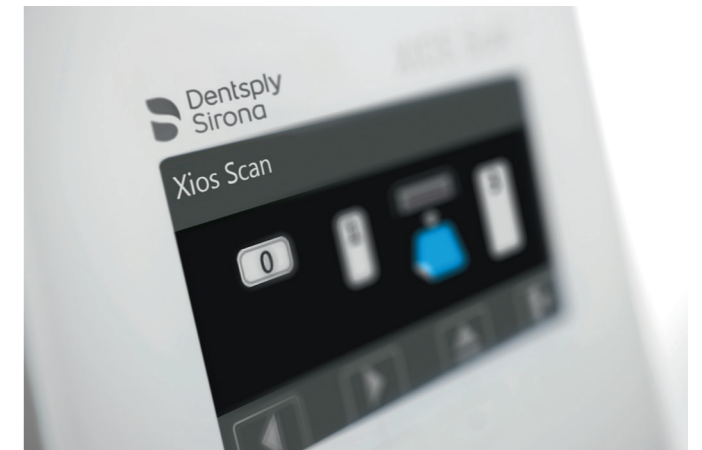
2 **Sidexis 4**

Featuring a modern user interface and intuitive tools – Sidexis 4 is the new centerpiece of the Dentsply Sirona X-ray family.

3 **100% digital...**

Xios AE and Xios XG Supreme

With the Xios intraoral sensors, you get X-ray images in HD quality and enhanced filtering functions, in addition to a quicker and more flexible way of working.

4 **...or entry into the digital world**

Xios Scan

If you are currently using film and are looking to maintain a similar workflow, without the hastle that comes along with chemicals and a dark room, you may consider going digital. The Xios Scan imaging plate scanner enables you to go digital, while still operating in a similar workflow to which you are accustomed with film.

Sidexis 4 software

The modern and highly intuitive imaging software supports a clear diagnosis. With its award-winning user interface, Sidexis 4 promotes an accessible workspace and clear navigation, saving valuable practice time and allowing for optimal patient communication.

Integrated Workflows

Sidexis 4 can be easily integrated into your practice and intuitively operated with limited training. The software also offers additional possibilities beyond image diagnosis, keeping your practice equipped for growth and opportunity.

Modern, intuitive design

Sidexis 4 offers a completely new, updated look. Beyond the impressive aesthetics, it boasts an intuitive operating approach and clear design. The new Timeline function also offers you an easy-to-navigate patient diagnosis and treatment history.

Seamless 2D/3D

With Sidexis 4, you can view 2D and 3D data simultaneously side by side without switching between programs. This saves you valuable time and cross-comparisons provide you with increased confidence in your final diagnosis and treatment plan.

Compare

Sidexis 4 compares two CBCT images or up to four 2D images simultaneously. For example, you can navigate through both volumes at the same time, obtain cross-comparisons at a glance and provide clear patient communication and case presentation.

Mobile image visualization with the Sidexis iX iPad app

Whether changing treatment rooms or explaining your diagnosis directly on the image – with Sidexis iX, you can take images with you wherever you go, making the iPad a convenient and accessible advisory tool.

Imaging on the go

so you can use all the mobile and flexible advantages of the iPad.

Implant visualization

to clearly and precisely present your implant treatment proposal to the patient.

Sidexis 4 databank access

providing the complete use of the Sidexis 4 databank and available offline copies.

Heliodent Plus

The Heliodent Plus intraoral X-ray unit allows for optimal functionality in every practice. The modularity of its installation options and its image quality surpass every expectation.

Your advantages with Heliodent Plus

- Safe and intuitive operation
- The three optional arm lengths allow for flexibility in the operatory
- Remote functionality allows the unit to be operated outside of the X-ray room
- Robust quality ensures durability and security of investment

Smart design for stable positioning and ultimate image quality

Heliodent Plus offers a 0.4 mm focal spot and vibration-free components to ideally support your workflow.

Intuitive and flexible

You should not have to worry about your intraoral X-ray generator creating obstacles in your workflow. With clear user options and numerous installation configurations, the Heliodent Plus provides a reliable partner for a truly flexible workflow – supporting the unique needs of your practice.

Sophisticated installation

Thanks to its various installation options, the Heliodent Plus can be easily adapted to fit every X-ray situation, regardless of a room's dimensions or layout. Whether your unit is a wall model, ceiling mount, attached to the Dentsply Sirona treatment center or a mobile unit, we provide options to support each unique workflow.

Wall model

Remote Control

Remote Timer

Manual release

Heliodent Plus on the treatment center

Heliodent Plus with mobile stand

Heliodent Plus with ceiling mount

Ceiling combination with LEDview Plus

20 cm standard cone

Round cone extension, 30 cm

Square cone extension, 30 cm

Configure your Heliodent Plus at:
www.heliodentconfigurator.com

Xios AE

The Advanced Exposure technology of the Xios AE sensor combines the outstanding resolution of 33 lp/mm* with optimized data read-out and exclusive advanced filtering enhancements to maximize your diagnostic potential.

Your advantages with Xios AE

- Brilliant image quality with optimized diagnostic filtering
- High dynamic range
- Dynamic sharpening slider for individual image enhancement
- Improved data transfer
- Easy cable exchange

Multiple sensor sizes

Xios AE sensors are available in three different sizes:

Size 2: Adult bitewing and single tooth images
Size 1: Single tooth images for smaller adults, patients with a shallow palate and bitewings for larger children
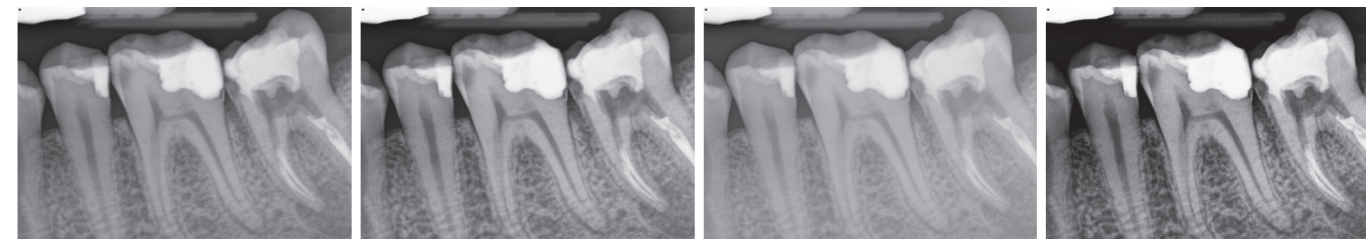**Size 0:** Pediatric images

Various cable lengths

The choice of various cable lengths facilitates flexibility, regardless of the operatory size and configuration.

Options: 90 cm, 180 cm, 270 cm cables

*Theoretical resolution

Supported diagnostic confidence

Xios AE sensors offer advanced filtering enhancements in order to highlight relevant anatomical structures to support an accurate and detailed diagnosis. Low-noise images, visibility of formerly under- or overexposed image areas and dedicated filtering in indications such as endodontics or tooth decay, provide a relevant advantage in diagnostic certainty.

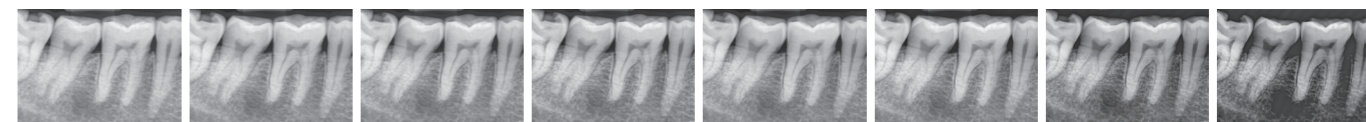General Dentistry   Endodontics   Periodontics   Restorative

Dynamic sharpening slider

To further optimize your image, you can use the dynamic sharpening slider to adjust the sharpness, with the option to also alter brightness and contrast. All it takes is a simple configuration and the images are examination ready – displayed to support your diagnosis and improve workflow efficiency.
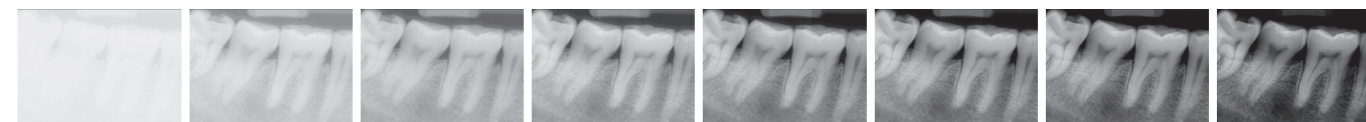
High dynamic range with responsive exposure reaction

Dose sensitivity and subsequent data processing are of essential significance for the achieved image quality. The broadened exposure spectrum of Xios AE sensors is more resistant to fluctuations in exposure. Even in lower dose ranges, more details become visibly evident.

Xios AE

Exposure time

Regular sensor

USB connectivity

The use of Xios AE sensors in combination with the new USB 3 interface allows for accelerated information read-out and optimized data transfer. Protected connection plugs provide additional durability in daily practice use.

Xios XG Supreme

With 33 lp/mm* and a CSI scintillator, the Xios XG Supreme sensor provides a reliable partner for any practice. High-quality images with the convenience of immediate availability on your computer for diagnosis.

Your advantages with Xios XG Supreme

• Superior image quality

• Dynamic sharpening slider for individual image optimization

• WiFi option for wireless image transmission

• Easy cable exchange

Multiple sensor sizes

Xios XG Supreme sensors are available in three different sizes:

Size 2: Adult bitewing and single tooth images
Size 1: Single tooth images for smaller adults, patients with a shallow palate and bitewings for larger children
Size 0: Pediatric images

Various cable lengths

The choice of various cable lengths facilitates flexibility, regardless of the operatory size and configuration.

Options: 90 cm, 180 cm, 270 cm cables

*Theoretical resolution

Proven image sharpness

Outstanding image quality is just the beginning with Xios XG Supreme intraoral sensors. The dynamic sharpening slider allows you to adjust your diagnostic settings in terms of sharpness. Additional slider options are available for modifications in brightness and contrast. After respective configuration, the images are displayed in an examination-optimized way for your diagnosis, saving valuable time in your practice. With just the click of your mouse, you get the right image for every treatment situation and ultimate clinical support.
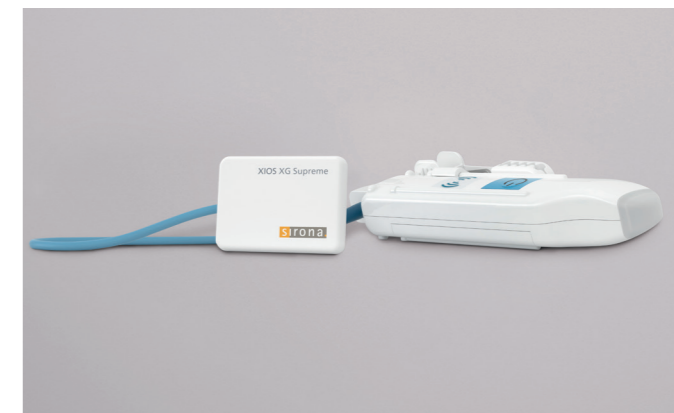

0%

50%

100%

Filtering enhancements

With Xios XG Supreme sensors you have the option of five different filtering options: General Dentistry, Endodontics, Periodontics, Restorative and Hygiene. These clinical-specific views are designed to optimize your diagnosis, enhancing the image to suit your needs.

USB or WiFi connectivity options

With the Xios XG sensors, you have the option of USB or WiFi connectivity for optimal flexibility. A smooth transition between the technologies is possible at any time with just the change of the cable.
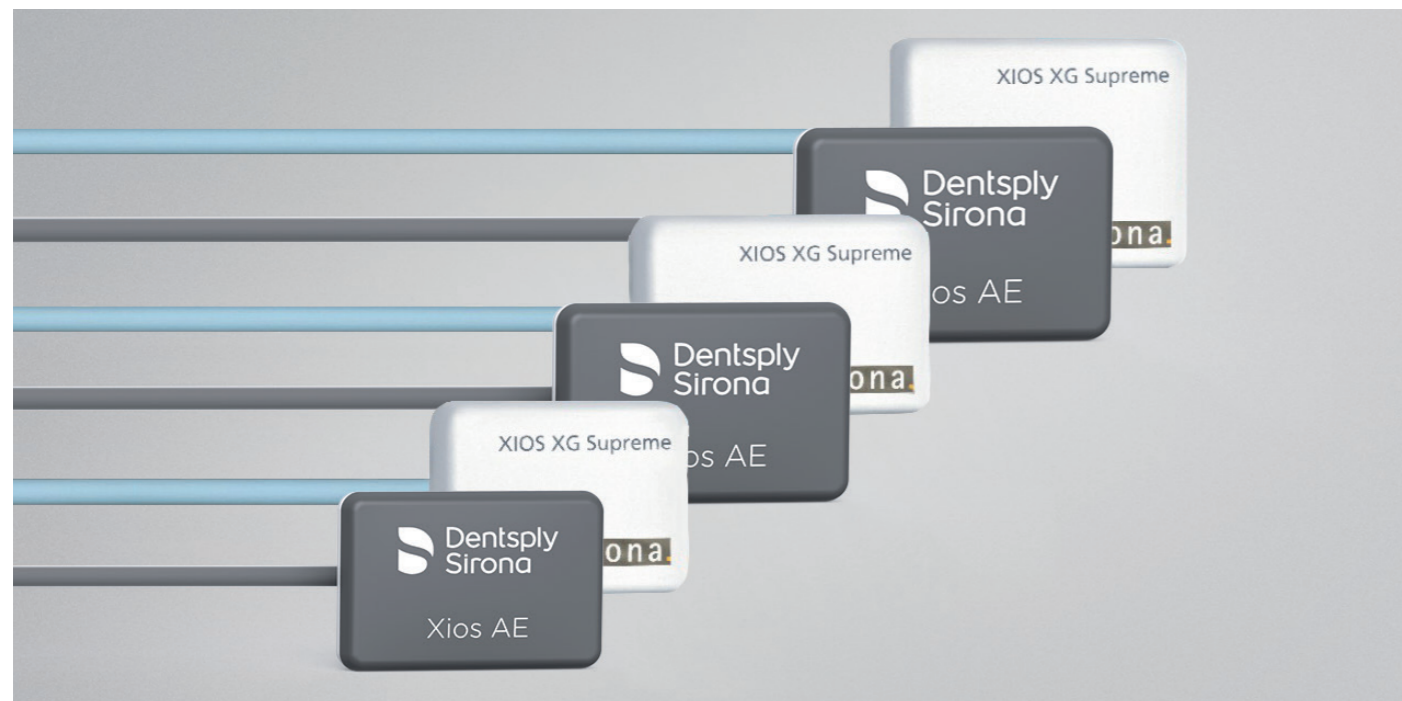

Proven and safe with the USB 2 interface

Safe and flexible with the WiFi interface

The right sensor for every case

Xios AE and Xios XG Supreme sensors offer the best integration into your workflow and ultimate image quality. Multiple sensor sizes allow for a truly customized experience for each and every patient and their unique situation. True efficiency in your workflow is facilitated by seamless intregration and ease of operation.

Exchangeable cable

Cables cost a fraction of the price of a new sensor and can be purchased at any time ensuring no lost productivity for the user should a cable be damaged. The damaged cable can be replaced within minutes just by loosening two screws and you can do this completely chairside – protecting your investment without missing a beat.

The highest degree of flexibility

The modularity of the Dentsply Sirona intraoral family provides the opportunity to meet every dentist's individual needs with a customized solution tailored to their practice. Whether you have a relatively small practice with a few operatories or a large practice or clinic, all products can be configured to fit your requirements and preference. This allows for a smooth integration into your daily workflow and optimum results.

Sophisticated installation

The Heliodent Plus offers a broad range of mounting options to allow for optimum configuration in each treatment room. The equipment has been designed to support your treatment style and permits you to work exactly how you're comfortable.

Sensor cable exchange

Multiple cable lengths and an easy-to-change cable help to provide flexibility in your workflow and extra security on your investment making sure you're never left without a sensor.

Connectivity

Solutions from Dentsply Sirona, whether USB or WiFi compatible, ensure that you can work quickly and efficiently, while maintaining outstanding quality.

Multiple sizes

Both the imaging plates and sensors are available in multiple sizes, enabling even greater customized solutions for every patient and treatment situation.

Xios Scan

The intraoral imaging plate scanner, Xios Scan, facilitates a smooth entry into the world of digital X-rays, while allowing your team to continue with their standard day-to-day operations. The comfort of a familiar workflow with the quality of digital imaging.

Your advantages with Xios Scan

- Simple workflow
- Reliable image quality
- Automatic scan process
- Maintenance-free

Multiple imaging plate sizes

Xios Scan works with four dedicated plate sizes:

Size 3: Adult bitewing
Size 2: Adult periapical or bitewing
Size 1: Adult anterior teeth or pediatric bitewing
Size 0: Pediatric periapical

Hygienic use and easy disinfection

The utilization of hygienic sleeves during intraoral image capture with imaging plates ensures proper clinical hygiene during patient X-rays. In addition to the removal of the sleeves prior to scanning to secure hygienic processing inside of the device, the plates also feature an easy-to-wipe smooth outer surface.
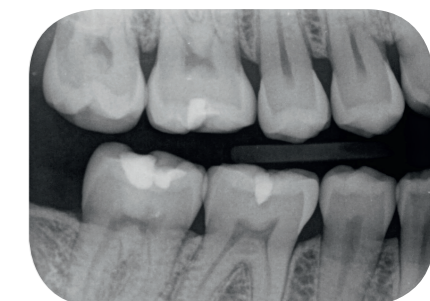
Optimally prepared

Select the plate size to fit your patient and the clinical case, or easily generate a series of images. In order to distinguish the active plate side, it features a blue backing.

Scanning without scratches

The Xios Scan eliminates mechanical pressure load during the initial insertion of the plate, which helps to prevent any unnecessary damage to the plates during processing and supports longevity and durablility.

Image quality

The reliable image quality of the imaging plates and their automatic scan support an easy and efficient diagnosis in the Sidexis 4 software.

*Theoretical resolution

SiroCam UAF Plus

Patient communication and case documentation are an integral part of your everyday workflow. With the SiroCam UAF Plus intraoral USB standalone camera, you can achieve all of this at just the touch of a button.

Your advantages with SiroCam UAF Plus

• Improved patient communication
• Images in HD resolution
• Sophisticated liquid lense with autofocus
• Integrated LED lighting support

USB connectivity

Featuring flexible standardized USB connectivity (USB 2 or 3) to your computers and laptops, and a cable length of 2.4 m, this intraoral camera provides true portability between treatment rooms.

Flexible software compatibility

Seamless integration into Sidexis 4.2 and higher or freely connectable to any imaging software that supports TWAIN-capable devices.
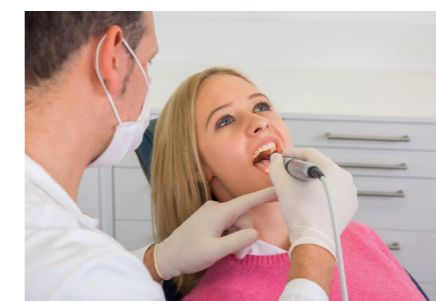
Applications

• Capture intraoral images
• Capture extraoral images (e.g. smile line, full face)
• Capture macro photographs
• Real-time image streaming

User-friendly operation

Straightforward user operation is supported by a multi-function button, generating images in HD resolution and real-time image streaming. The integrated LED light ensures proper illumination in the area of interest.
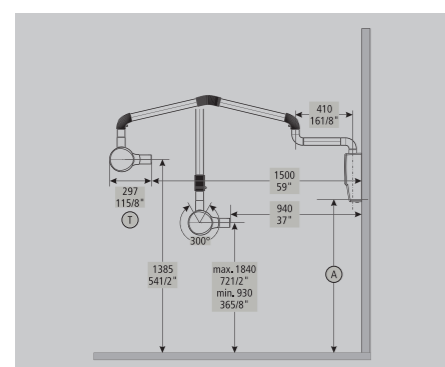
Durable and robust

With an easy-to-wipe reinforced plastic and glass fiber surface, and hygienic single-use sheaths, disinfection and preparation in between patients can be truly efficient.
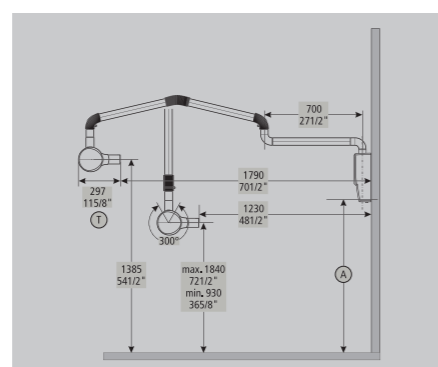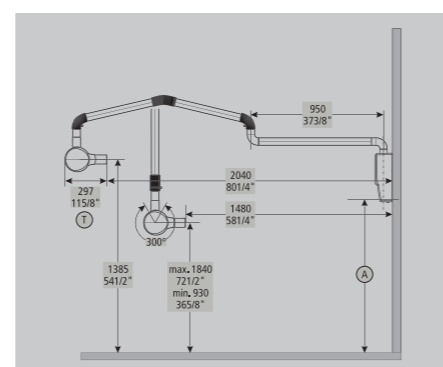
Technical data

Heliodent Plus

Generator type	High-frequency generator for constant high voltage
Tube voltage	Adjustable between 60 kV and 70 kV
Tube current	7 mA
Focal spot	0.4 (IEC 336)
Line voltage	120–240 V ± 10 % without switching, 50/60 Hz
Exposure time	Incrementally adjustable from 0.01 to 3.2 s
Detector media	Preset for film and Xios XG sensors, exposure times can be individually adjusted, also for imaging plates and other sensor systems
Display	Multicolored display to show the different system states
Focus-to-skin distance	Standard 20 cm, optional 30 cm
Available installation options	Wall-mounted installation with three arm lengths, model mounted on treatment center, installation with manual release, remote control or remote timer, ceiling model, ceiling combination with LEDview, mobile model

Heliodent Plus, medium support arm*

Heliodent Plus, long support arm*

Heliodent Plus, extra long support arm*

Xios AE

Sensors	
Sensor 0: Active surface	18 mm x 24 mm
Sensor 0: Overall dimensions	23.6 mm x 32 mm x 7.5 mm
Sensor 1: Active surface	20 mm x 30 mm
Sensor 1: Overall dimensions	25.4 mm x 38.3 mm x 7.5 mm
Sensor 2: Active surface	25.6 mm x 36 mm
Sensor 2: Overall dimensions	31.2 mm x 43 mm x 7.5 mm
Physical pixel size	15 µm
Measured resolution	28 lp/mm
Theoretical resolution	33 lp/mm
Sensor cable length	Up to max. 2.7 m
USB interface	
USB port of USB interface	USB 3
Power supply	USB port

Xios XG Supreme

Sensors	
Sensor 0: Active surface	18 mm x 24 mm
Sensor 0: Overall dimensions	23.6 mm x 32 mm x 7.5 mm
Sensor 1: Active surface	20 mm x 30 mm
Sensor 1: Overall dimensions	25.4 mm x 38.3 mm x 7.5 mm
Sensor 2: Active surface	25.6 mm x 36 mm
Sensor 2: Overall dimensions	31.2 mm x 43 mm x 7.5 mm
Physical pixel size	15 µm
Measured resolution	28 lp/mm
Theoretical resolution	33 lp/mm
Sensor cable length	Up to max. 2.7 m
USB interface	
USB port of USB interface	USB 2
Power supply	USB port
WiFi	
Technology	IEEE 802.11b/g
Charging station for WiFi function	Storage device and charger with LED status display

Xios Scan

Dimensions (H x W x D)	363 mm x 163 mm x 286 mm
Weight	7.3 kg ± 0.5 kg
Pixel size	23 µm
Theoretical resolution	22 lp/mm
Interface	LAN
Imaging plate dimensions	
Size 0	31 mm x 22 mm
Size 1	24 mm x 40 mm
Size 2	31 mm x 41 mm
Size 3	27 mm x 54 mm

SiroCam UAF Plus

Equipment compatibility	Computer/Laptops with USB 2.0 (USB 3.0) interface
Sensor technology	1/4 inch CMOS
Saved image resolution	1276 pixels x 796 pixels
Video resolution	824 pixels x 514 pixels
Magnification max	x250
Lens	Autofocus
Power supply	USB (5V)
Activation	Multi-function button operation
Multi station use	Plug & Play
Camera weight	210 g with cable
Camera length	195 mm
Light	LED
Cable length	2.4 m

PC requirements Sidexis 4*

Server PC	Minimum requirements	Recommended requirements
Operating system	• Windows Server 2008 R2 (64bit) • Windows Server 2012 R2 (64bit) • Windows 7 Pro SP1 (64bit) • Windows 8.1 Pro (64bit) • Windows 10 Pro (64bit)* * Version 1607, Build: 14393.693	• Windows Server 2008 R2 (64 bit) • Windows Server 2012 R2 (64 bit)
RAM	≥ 4 GB	≥ 8 GB
CPU	≥ 2 GHz DualCore	≥ 2.3 GHz QuadCore Processor with 64 bit (x64)
Hard drive	> 675 GB During operation it must be ensured that there is always sufficient hard disk space available.	> 1 TB

Work station PC	Min. req. for 2D station	Min. req. for 3D station
Operating system	• Windows 7 Pro SP1 (32 o. 64bit) • Windows 8.1 Pro (64bit) • Windows 10 Pro (64bit)* * Version 1607, Build: 14393.693	• 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
CPU	≥ 2 GHz DualCore	≥ 2.3 GHz QuadCore Processor with 64 bit (x64)
Graphics memory**	≥ 512 MB	≥ 1GB
DirectX	DirectX 9.0c	DirectX 10 with WDDM 1.0 or higher driver
Hard drive	≥ 5 GB	≥ 5 GB

* More information at www.dentsplysirona.com under imaging system requirements. System requirements of the hardware used may vary.
** For the interaction with the 3D-rendered volume to be reliable and "smooth", graphics cards with at least the following Passmark GPU benchmark values are recommended: NVIDIA: Passmark > 1000; AMD: Passmark > 1500; Onboard: > 540

* Exact dimensions of installation in the installation requirements

Procedural Solutions

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Enabling Technologies

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Dentsply Sirona

Sirona Dental Systems GmbH
Fabrikstraße 31, 64625 Bensheim, Germany
dentsplysirona.com

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