Dentsply Sirona X-ray Solutions:

Patient care empowered by collaboration

Learn more >

Engineered to help you meet your goals

DS X-ray Solutions consist of a suite of products that deliver high-precision 2D and 3D X-rays of the patient's oral and maxillofacial area.

Plus, you can benefit from our cloud storage and case-file-sharing solution with **DS Core™**, which is connected to the DS X-ray software, Sidexis® 4.

What are your goals? Whether you're opening a new practice or want to offer more specialized treatments, DS X-ray Solutions are designed purposefully to help you meet them:

- Make informed diagnoses and optimize your treatment plans.
- Collaborate efficiently with specialists and partners.
- Treat more cases and grow your practice.

Learn more >

Click on each product to learn more

ORTHOPHOS® E
The Digital Entry Solution

ORTHOPHOS® S
The All-round Solution

AXEOS®
The Practice Builder

Compare devices >

EXTRAORAL | SOFTWARE | INTRAORAL

Images not to scale.

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EXTRAORAL

SOFTWARE

Sidexis® 4
See more with every image

INTRAORAL

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EXTRAORAL

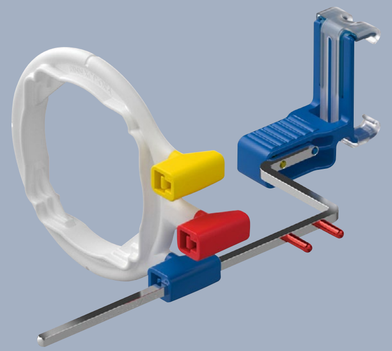
SOFTWARE

INTRAORAL

HELIODENT® PLUS
Intraoral X-ray generator

XIOS® XG SUPREME
Intraoral X-ray sensor

INTRAORAL HOLDER SYSTEMS



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The Digital En

INTRAORAL

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Orthophos® E

The Digital Entry Solution

- Entry-level 2D X-ray device for practices new to digital.
- Assisted patient positioning.
- Easy and intuitive operation.
- Optional ceph arm.
- Clear panoramic X-rays using CsI sensor technology.

Learn more >

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The Digital En

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X

Orthophos® S

The All-round Solution

- High-performance 2D/3D X-ray.
- Multiple field of view sizes: Ø5x5.5cm, Ø8x8cm or Ø11x10cm.
- Automatically assisted positioning.
- Autofocus & Csl Plus technologies.

Learn more >

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Axeos®

The Practice Builder

- 2D/3D practice performer for practices offering the widest range of treatments.
- Largest field of view (Ø17x13cm) to capture the complete dentition including the TMJs.
- Excellent image quality with the DCS sensor for accurate diagnostics and treatment planning.

Learn more >

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reddot winner 2020

DESIGN AWARD 2021

Engineered to help you meet your goals

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EXTRAORAL

INTRAORAL

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Sidexis® 4

See more with every image

- Comprehensive software to efficiently review and diagnose for a wide range of indications.
- Connected with DS Core to automatically save all scans in one patient media library.
- Compatible with implant planning software and over 300 PMS.
- Seamless connectivity with Dentsply Sirona X-ray hardware and Treatment Centers.

Learn more >

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DER SYSTEMS

EXTRAORAL

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X

Heliodent® Plus
Intraoral X-ray generator

- Broad range of mounting options to allow for customized configuration in each treatment room.
- Smart design for stable positioning and consistent imaging.

Learn more >

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DER SYSTEMS

EXTRAORAL

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X

Xios® XG Supreme

Intraoral X-ray sensor

- Replaceable cable.
- Premium image quality with visible resolution of 28lp/mm and theoretical resolution of 33lp/mm.
- Different sensor sizes for patient comfort and capturing the area of interest.

Learn more >

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EXTRAORAL

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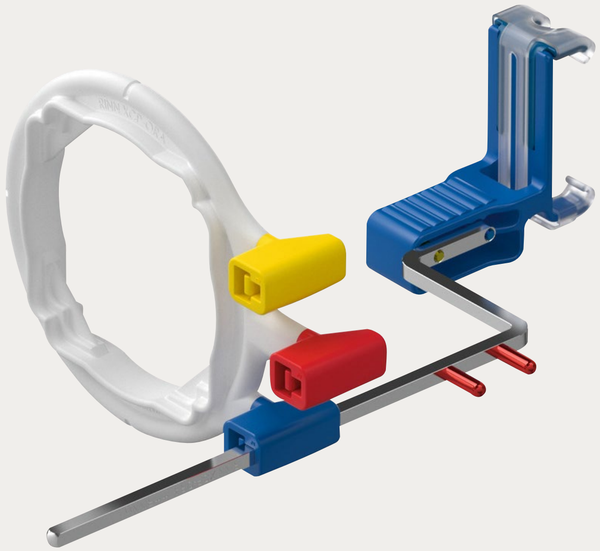
Intraoral Holder Systems

Capturing an excellent intraoral X-ray starts with proper sensor positioning

Our Intraoral Holder Systems help ensure a comfortable experience for your patient and support your dental assistant or hygienist in capturing a precise intraoral X-ray safely and efficiently.

With the various holder systems that we offer, from single-use to autoclavable, you get excellent support for accurate image capture. Choose the sensor holder system that fits your personal preferences, enhancing efficient image capture.

Learn more >



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Click on each feature to learn more

Extraoral X-rays

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3D **Metal Artifacts Reduction Software (MARS)** automatically reduces noise and scatter caused by metal artifacts, delivering a diagnostically viable X-ray even in challenging environments.

3D **HD mode** highlights small details with a high resolution that goes up to 80µm.

2D 3D **Patient positioning features** help you obtain a reproducible and comfortable scanning position for the patient, helping to minimize the risk of retakes.

2D **Autofocus** automatically provides you with a PAN image with the best possible sharpness out of several thousand images.

2D **The Quickshot function for 2D X-rays** reduces exposure time, dose and captures images effectively with patients that find it difficult to remain still, such as pediatric patients.

2D **The Axeos Direct Conversion Sensor** converts X-rays directly into an electrical signal for an improved yield of image information.

Field of View

Capture a precise area with volume sizes ranging from Ø5x5.5cm for a single tooth up to Ø17x13cm for capturing the entire maxillofacial area, including the TMJ.

For local findings, e.g. for endodontic issues or single implants.

Captures the lower and upper jaw, e.g. for planning multiple implants.

Shows the complete dentition for implant planning, 3rd molar extractions or sinus diagnostics.

Captures the complete dentition for TMJ diagnostics, orthodontic treatment planning, orthognathic surgery planning or upper airway segmentation considering TMJ position.

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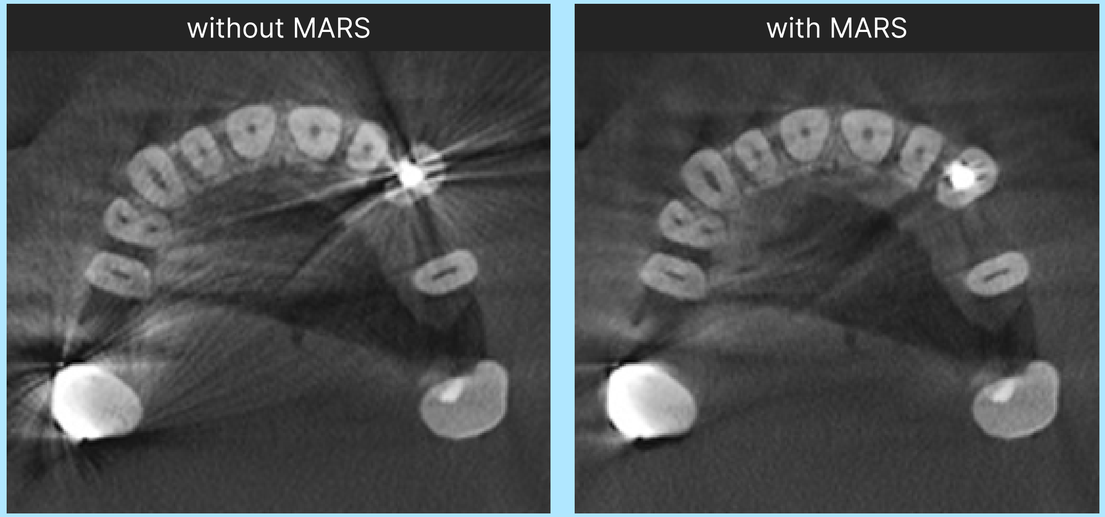
Metal Artifacts Reduction Software (MARS)

Metal artifacts are often a challenge in 3D X-rays. MARS automatically reduces noise associated with metal artifacts and can therefore help to facilitate a quality diagnosis.

The advantage: at Dentsply Sirona, MARS is a standard integration in all 3D X-ray devices, ensuring all 3D customers have the same high-quality images.



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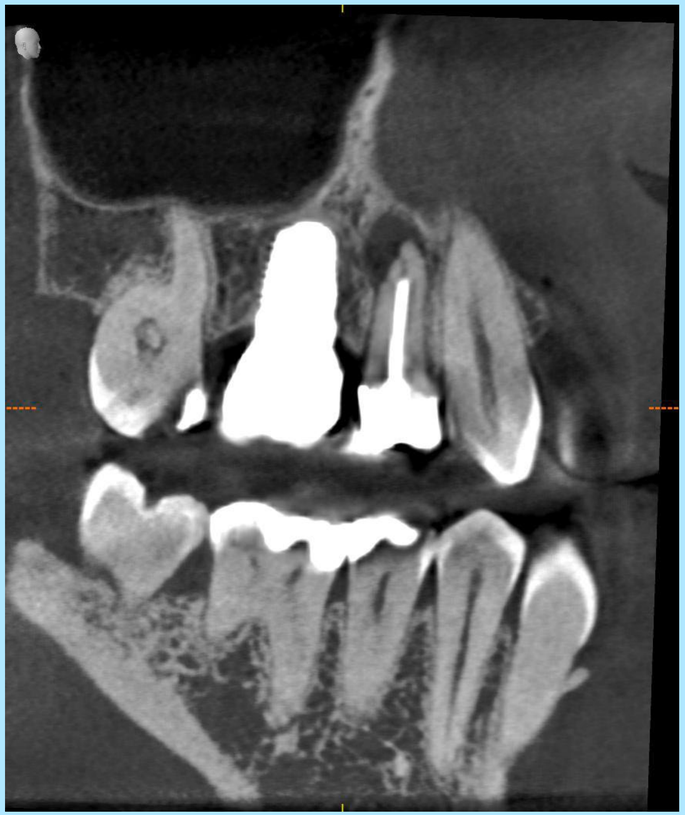
HD Mode

In HD mode, hundreds of individual images are captured during a single rotation and converted into a 3D volume with up to 80µm resolution.

The advantage: low-noise X-rays with high image quality.

The HD mode is very useful in endodontics to visualize and measure all canals for accurate treatment planning. This can avoid the need for additional patient visits due to an overlooked canal.



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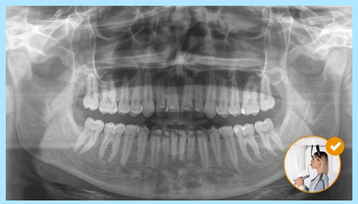
Positioning features

- The patented **Auto-Positioner** with occlusal bite block* establish the inclination of the patient's head to position it in the occlusal plane, together with the 3-point head fixation and firm handles, leading to a stable, reproducible and comfortable position.
- **The motorized, adjustable headrest** automatically stops at the right pressure around your patient's head and opens once the image capture is complete.
- **Assisted 3D positioning** thanks to Light lines for easy visibility of the volume.
- **Colored height adjustment buttons** intuitively guide the user in order to easily set the patient-specific device height.
- **The Smart Height Adjustment system** on Axeos will show you how to access the last settings used for each patient. This simplifies the preparation of the X-ray device before the patient arrives, saving time during set-up.



The advantage:
A low risk of needing retakes, thanks to reliable patient positioning.

Learn more >

*EP1560520B1_2001_051_Aufbiss_Pan

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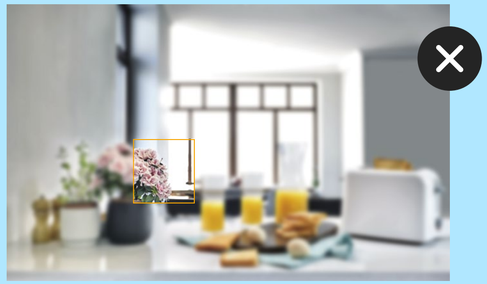
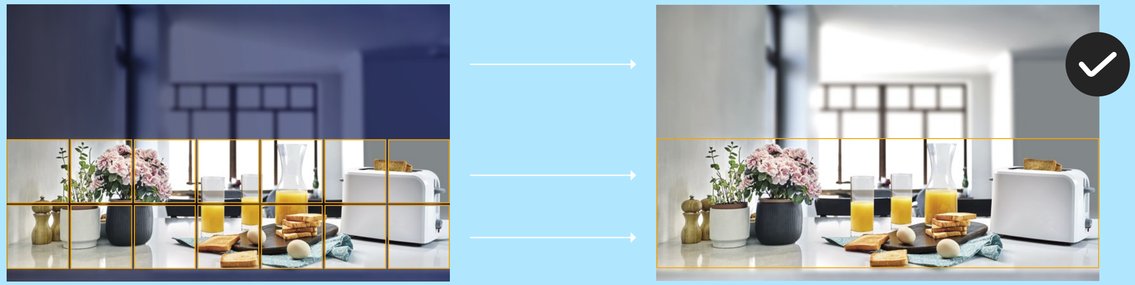
Autofocus and Sharp Layer

An X-ray must be able to be diagnosed immediately. With the **autofocus function**, you will automatically receive an in-focus image with the best possible sharpness. Our Dentsply Sirona extraoral X-ray devices take several thousand individual images in one cycle and automatically recognize the areas in which the jaw is optimally positioned. A sharp panoramic image is created from the individual projections, without any manual intermediate steps from you.





This eliminates the need for preselecting jaw morphology, tooth anomalies and canine light, and thus simplifies the operation of the X-ray device.

Make a confident diagnosis from the start

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Click on each feature to learn more

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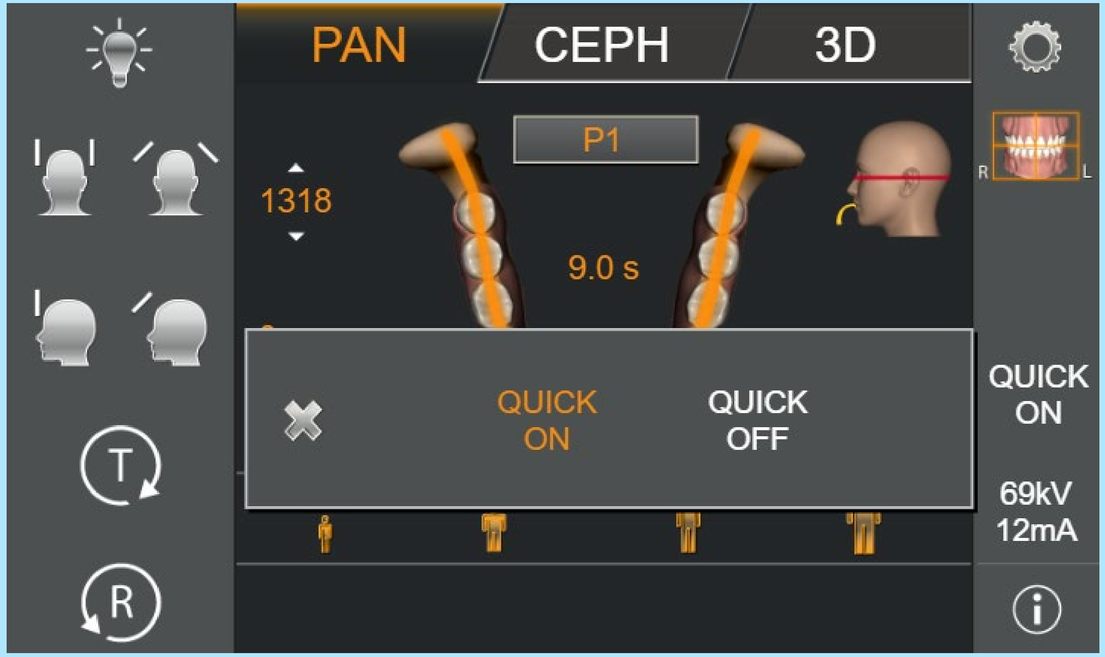
Quickshot function

Quickshot reduces the exposure time to a maximum of 9.1 seconds, thus reducing the dose and the risk of the patient moving during acquisition. This makes it a valuable feature for all practices, especially those working with a large number of pediatric patients or patients who struggle to stand still for a certain amount of time.



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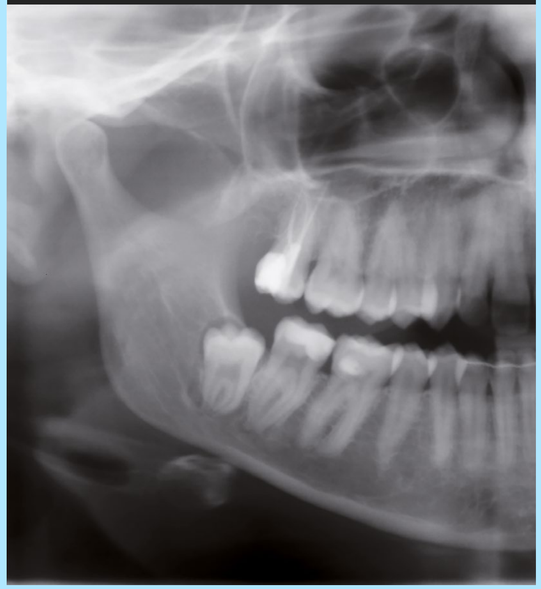
Axeos Direct Conversion Sensor

Conventional sensors have a scintillator that first converts X-rays into light, which is then converted into an electric charge. In contrast, the Axeos **Direct Conversion Sensor (DCS)** converts X-rays directly into an electrical signal.

The advantage: less signal loss and an improved yield of image information.

without DCS



with DCS

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Make a confident diagnosis from the start

Intraoral X-rays

Filter enhancement presets streamline your clinical application, whether for general dentistry, endodontics, periodontics, restorative or hygiene.

Premium image quality with a resolution of 33lp/mm[1] helps you make an informed assessment.

The Dynamic Sharpening Slider allows you to adjust the sharpness of your X-ray to the clinical situation.

The Holder Systems provide additional positioning control for accurate and precise image capture.

Personalized installation options for your Heliodent Plus generator help you obtain the intraoral X-ray you need while working comfortably.

Click on each feature to learn more

1. Theoretical resolution

Image not to scale.

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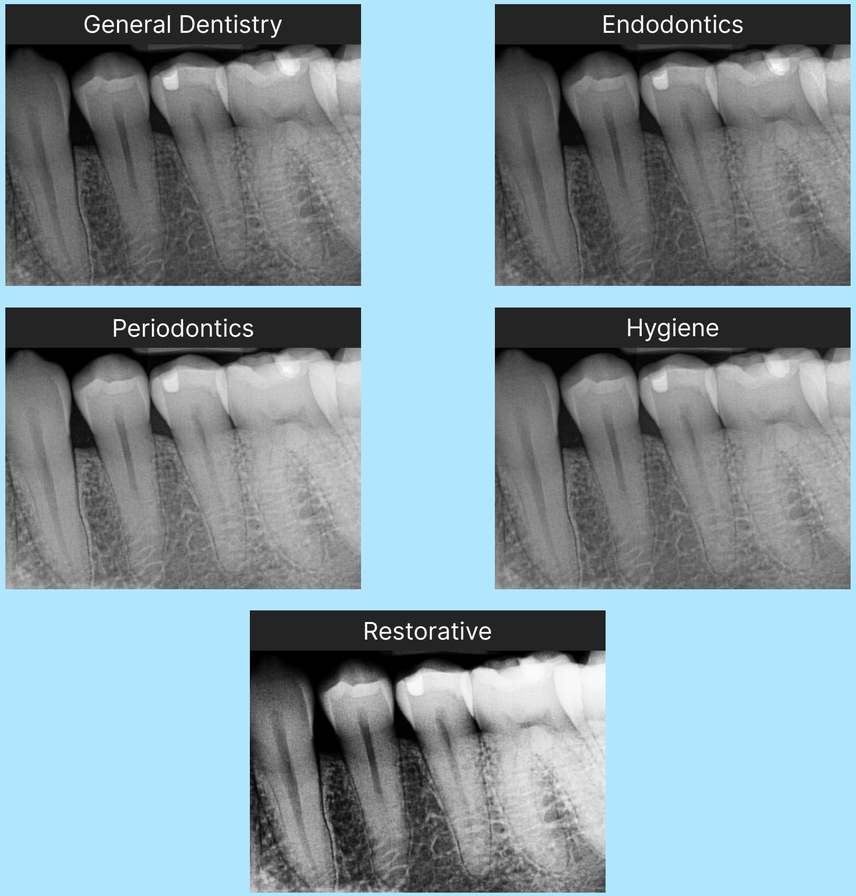
Filter enhancement presets

With our intraoral sensors, you have the option of five different filtering options: **General Dentistry, Endodontics, Periodontics, Restorative** and **Hygiene.**

These specific clinical views are designed to optimize your diagnosis, enhancing the image to suit your needs.



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Premium image quality

Our intraoral sensors provide a theoretical resolution of 33lp/mm, a visible resolution of 28lp/mm and a 15µm pixel size, delivering accurate image quality without the additional wait time caused by a developing or scanning process.

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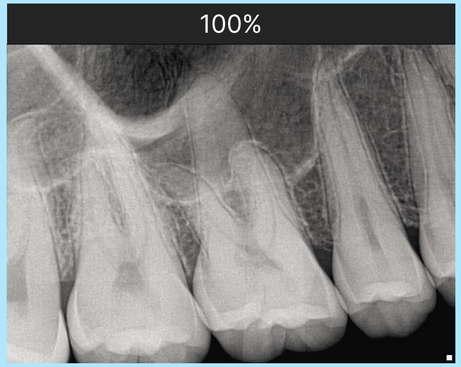
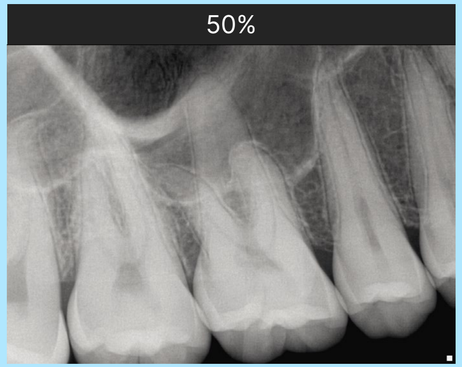
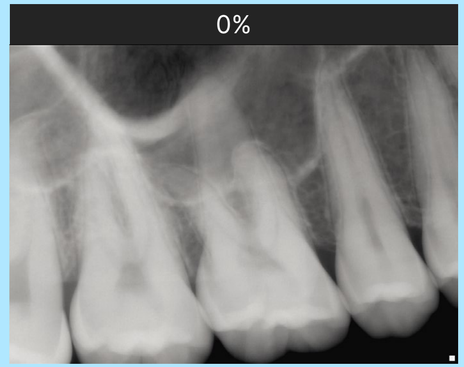
Dynamic Sharpening Slider

The Dynamic Sharpening Slider allows you to adjust your diagnostic settings in terms of sharpness. Additional slider options are available to modify brightness and contrast. After configuration, images are efficiently displayed to enhance your diagnostic capabilities, helping you save valuable time.

With just a click of your mouse, you get the right image for your indication and effective clinical support.







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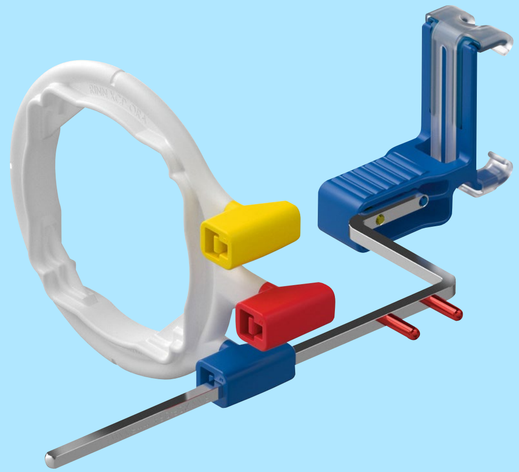
Learn more >



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Intraoral X-rays

Filter enhancement presets streamline your clinical application, whether for general dentistry, endodontics, periodontics, restorative or hygiene.

Premium image quality with a resolution of 33lp/mm[1] helps you make an informed assessment.

The Dynamic Sharpening Slider allows you to adjust the sharpness of your X-ray to the clinical situation.

The Holder Systems provide additional positioning control for accurate and precise image capture.

Personalized installation options for your Heliodent Plus generator help you obtain the intraoral X-ray you need while working comfortably.

Click on each feature to learn more

1. Theoretical resolution

Heliodent Plus Intraoral X-ray generator

Broad range of mounting options to allow for optimum configuration in each treatment room

Thanks to its various installation options, the Heliodent Plus can be easily adapted to fit your operatory configuration, 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 is a mobile unit, we provide options to support your workflow.

Learn more >

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

20cm standard cone

Round cone extension, 30cm

Square cone extension, 30cm

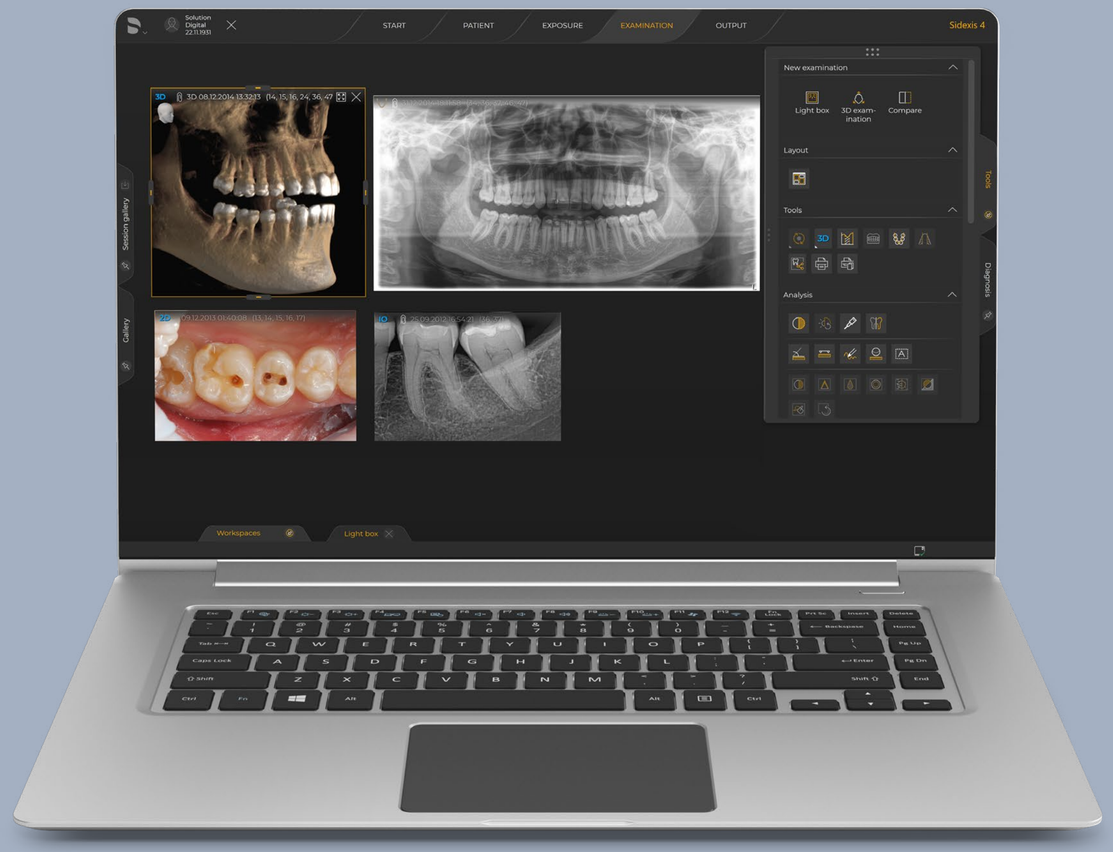


Image not to scale.

Optimize your treatment planning

Sidexis 4 is a central component of DS X-ray Solutions. It is a comprehensive software that provides you with a broad range of tools to detect, diagnose and discuss a treatment plan for optimal results. It also enhances patient consultation and treatment acceptance.

Review 2D and 3D X-rays, intraoral scans and patient pictures into one place with **Lightbox**.

Use **Compare mode** to analyze progression over time in the patient's mouth.

Navigate from diagnosis to treatment with the **Timeline function**, which provides a chronological view of all the patient's scans.

Access your personalized **intraoral series templates** in one click.

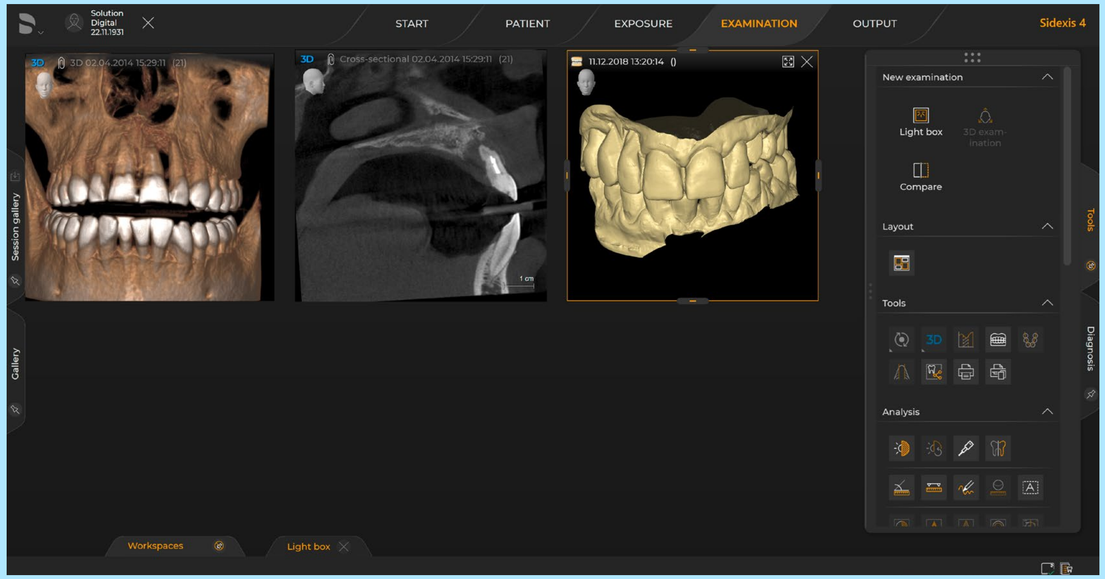
Click on the feature to learn more

Lightbox

Within the Sidexis 4 Lightbox, the ability to view different types of images (intraoral scan with 3D for an esthetic and bone combination approach) in the same workspace facilitates a comprehensive approach to treatment planning.

You don’t have to switch between multiple programs, saving you time.

These cross-comparisons also provide you with increased confidence in your diagnosis and treatment plan.



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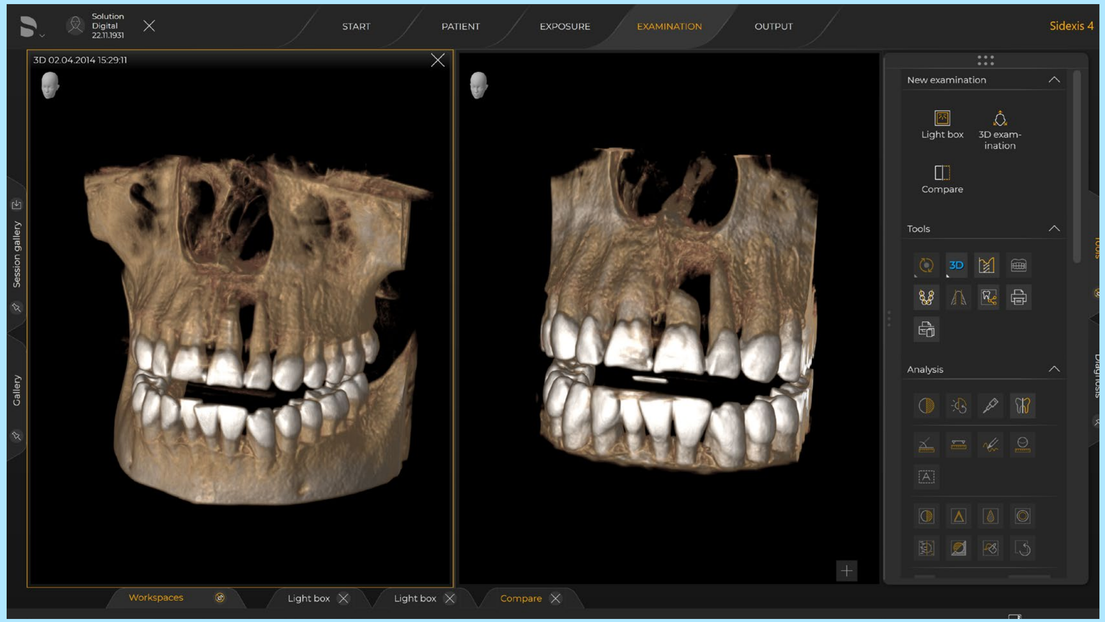
Compare mode

The Compare mode in Sidexis 4 allows you to simultaneously view up to four X-rays, making an assessment on the evolution of the mouth easy.

You can, for example, navigate through two volumes simultaneously to obtain a before and after treatment comparison.



Before apical retreatment

After apical retreatment

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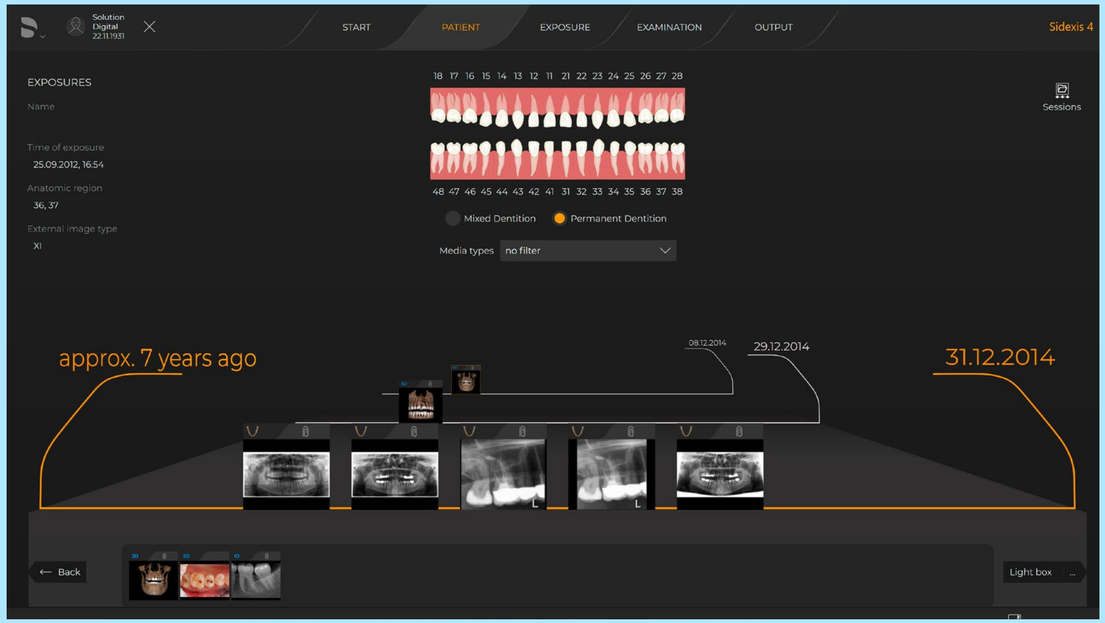
Timeline function

Supporting you during the treatment planning process

Thanks to the Timeline function, an overview of the patient's entire history can be viewed at a glance. This allows you to add a visual time dimension to your patient record.



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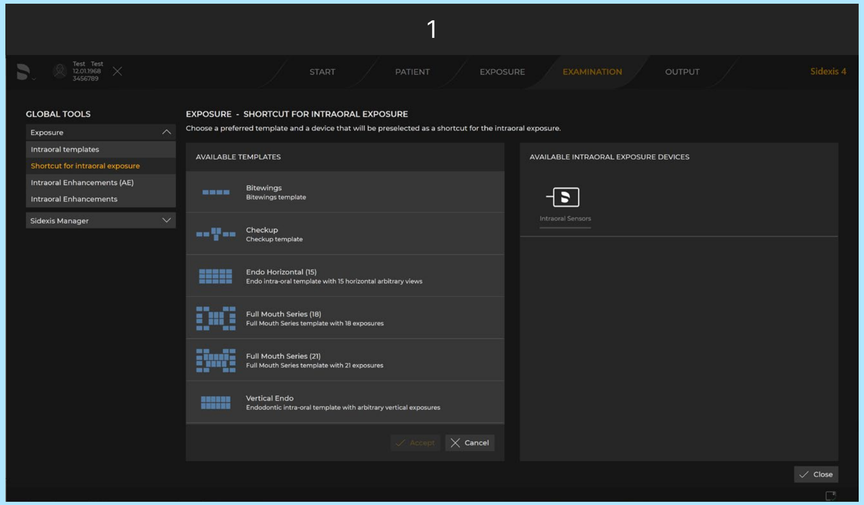
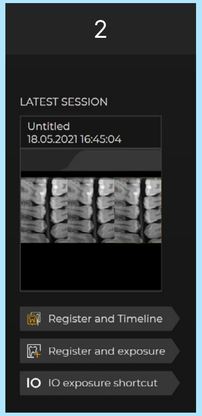
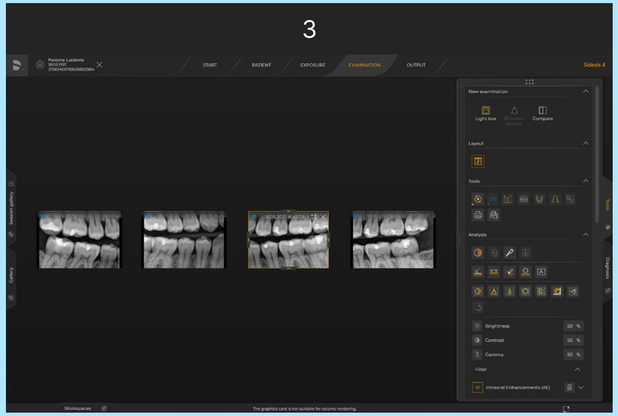
Intraoral series template

Personalize your preferred intraoral series template and define a shortcut to access it in one click.







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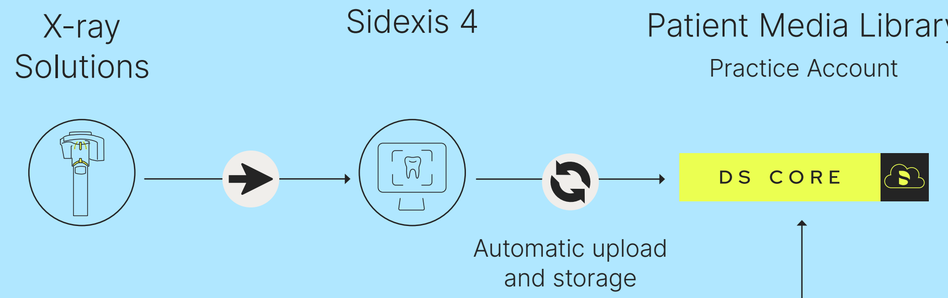
DS Core: Collaborate with ease and efficiency

DS Core is a platform where you can easily store and share your patient files, including 2D and 3D X-rays, intraoral scans, design files and any other relevant case files.

- **Save time when sending files:**
  Send patient records, such as 2D and 3D X-rays, with the click of a button. Partners can view X-rays and intraoral scans, comment on patient files, download files, and send additional files back without a paid DS Core account.
- **Safe and inexpensive file transfer:**
  No more USBs or DVDs sent through the mail or delivered with a carrier service. Now you can make use of a dental file sharing platform that supports HIPAA/GDPR compliance.
- **View files from anywhere:**
  Access patient files through a web browser anywhere and at any time. An embedded 2D and 3D X-ray and intraoral scans viewer allows you and your partners to look at files directly on DS Core.

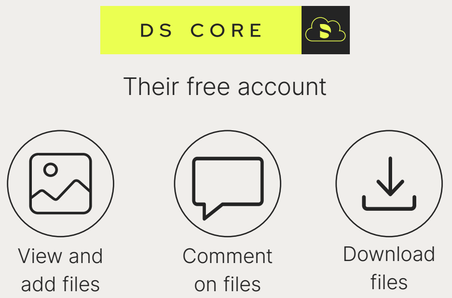
Share patient records with the simple click of a button

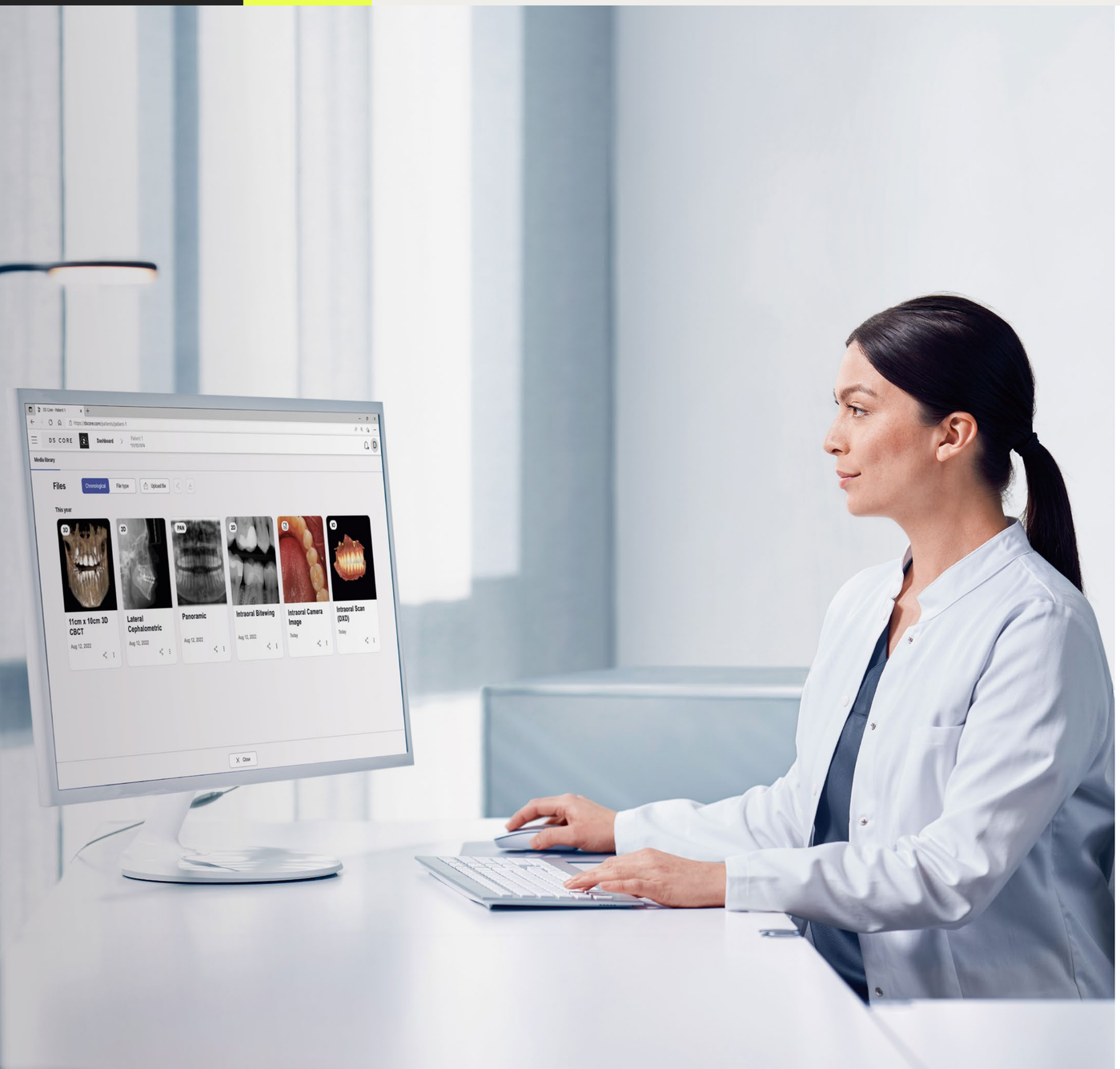
Your practice



Partners

Use DS X-ray Solutions with DS Core to collaborate seamlessly and securely with colleagues and partners, all while supporting HIPAA and GDPR compliance.





Empower your growth with Sidexis 4 and DS Core

Leverage the file storage capabilities of DS Core by consolidating all your Sidexis 4 files into one central location, saving you time and effort so you can focus on what matters most: treating your patients.

Complete Patient Record
Patient X-rays and intraoral scans from Sidexis 4, CEREC, and Connect software are automatically uploaded and stored in one location to enable efficient workflows in your practice. Integrated cloud storage means your patients' files are always available, wherever you are and whenever you need them.

Safe Patient Treatment Collaboration
DS Core supports GDPR/HIPAA compliant file-sharing all from one platform, you can seamlessly and securely collaborate with colleagues and external partners on patient treatment plans. Say goodbye to text messengers, emails, USB sticks or CDs.

Up to 15TB

of storage space, giving you the room to grow your practice

Delegate with confidence

While you save time to focus on your practice, your team can save time on the set-up and the appointment.

- **Automatic positioning features** in addition to the Autofocus technology can make it easy for you to delegate the preparation of the unit to your team and obtain a premium image with no manual steps.
- The chronological visualization of patient files in the **Sidexis 4 Timeline**, as well as other navigation features, can help your team quickly setup each appointment.
- For intraoral sensors, damaged cables can be **exchanged in-house**, avoiding the need for your team to organize and wait for repair, whilst limiting the cost.

Click on each feature to learn more

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Positioning features

- The patented **Auto-Positioner** with occlusal bite block* establish the inclination of the patient's head to position it in the occlusal plane, together with the 3-point head fixation and firm handles, leading to a stable, reproducible and comfortable position.
- **The motorized, adjustable headrest** automatically stops at the right pressure around your patient's head and opens once the image capture is complete.
- **Assisted 3D positioning** thanks to light lines for easy visibility of the volume.
- **Colored height adjustment buttons** intuitively guide the user in order to easily set the patient-specific device height.
- **The Smart Height Adjustment system** on Axeos will show you how to access the last settings used for each patient. This simplifies the preparation of the X-ray device before the patient arrives, saving time during set-up.

The advantage:
A low risk of needing retakes, thanks to reliable patient positioning

An X-ray must be able to be diagnosed immediately. With the **autofocus function,** you will automatically receive an in-focus image with the best possible sharpness. Our Dentsply Sirona extraoral X-ray devices take several thousand individual images in one cycle and automatically recognize the areas in which the jaw is optimally positioned. A sharp panoramic image is created from the individual projections, without any manual intermediate steps from you.

*EP1560520B1_2001_051_Aufbiss_Pan

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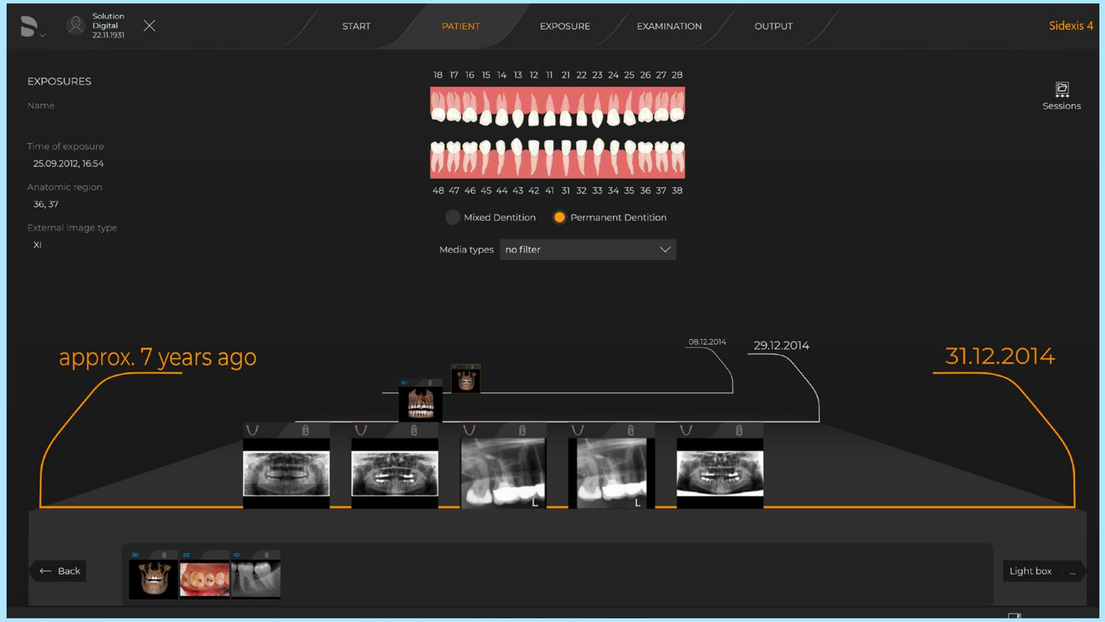
Timeline function

Your team can easily navigate the patient's files in chronological order thanks to the Sidexis 4 Timeline, leading to a fast set-up of your workspace.

Your team can also filter by file type or tooth number, which helps display the data you need quickly.



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Exchangeable cable for intraoral sensors

To avoid any down-time due to a broken cable, your team can easily change your sensor cable in the practice.

The ability to exchange the cable ensures no loss in productivity if unexpected damage occurs. For example, a chair may roll over the cable resulting in damage. In these cases, it is good to be prepared, and the exchangeable cable will ensure that you are fully supported and can continue working with minimal delay and minimal cost.

Learn more >

Encouraging treatment acceptance

DS X-ray Solutions help you communicate treatment plans to your patient, encouraging treatment acceptance.

With the Lightbox feature in Sidexis 4, you can conveniently arrange different image data such as 2D and 3D X-rays, intraoral scans or photographs for effective patient consultation.

With Sidexis 4, you can also leave your patients with a printed case overview.

Keeping your patients in-house

When you rely on DS X-ray Solutions, you can provide a wide range of treatments to keep your patients in-house.

- **Preselected fields of view** of Ø5x5.5cm–Ø17x13cm for Axeos and Ø5x5.5cm–Ø11x10cm for Orthophos S allow you to select the appropriate area of interest for accurate diagnostics and eliminate the need to refer the patient to a radiologist.
- **HD Mode for endodontics** highlights small details, so you can diagnose and treat effectively.
- **Intelligent Low Dose** creates 3D images at a 2D dose range, allowing you to obtain valuable data, even on your most X-ray-sensitive patients, such as children.
- Sidexis 4 connects with **Simplant Planning Services** to efficiently outsource your implant planning and surgical guide, so you can focus on the implant placement.
- Sicat Implant 2.0 in combination with CEREC and Sidexis 4 provides you with a **simple crown-down implant workflow**, helping you access more workflows in-house without the need to send your patient to a specialist.

Click on the feature to learn more

Field of View

Capture a precise area with volume sizes ranging from Ø5x5.5cm for a single tooth up to Ø17x13cm for capturing the entire maxillofacial area, including the TMJ.

For local findings, e.g. for endodontic issues or single implants.

Captures the lower and upper jaw, e.g. for planning multiple implants.

Shows the complete dentition for implant planning, 3rd molar extractions or sinus diagnostics.

Captures the complete dentition for TMJ diagnostics, orthodontic treatment planning, orthognathic surgery planning or upper airway segmentation considering TMJ position.

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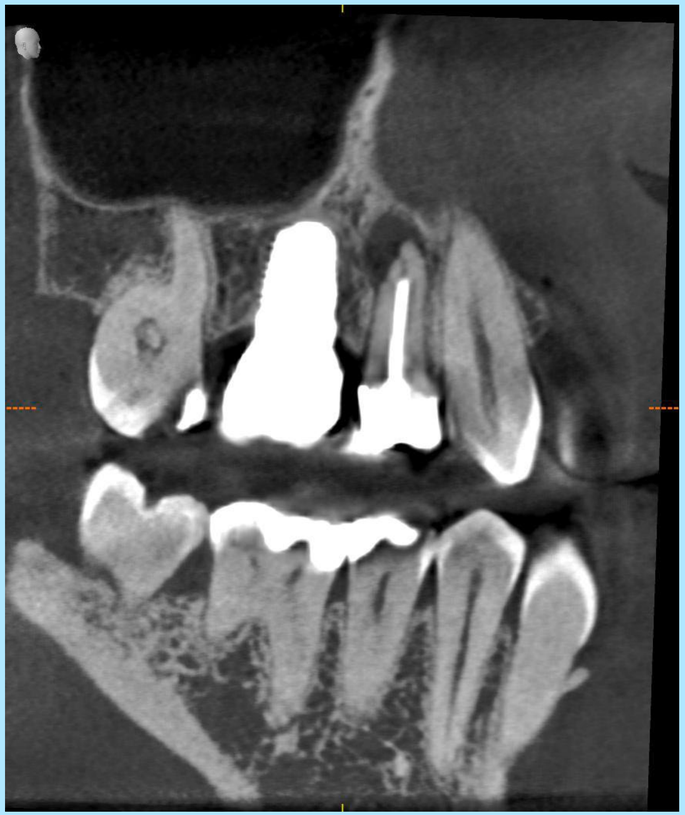
HD Mode

In HD mode, hundreds of individual images are captured during a single rotation and converted into a 3D volume with up to 80µm resolution.

The advantage: low-noise X-rays with high image quality.

The HD mode is very useful in endodontics to visualize and measure all canals for accurate treatment planning. This can avoid the need for additional patient visits due to an overlooked canal.



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Intelligent Low Dose

The Dentsply Sirona Intelligent Low Dose offers high image quality at a low radiation dose for a wide range of indications like implant validation or tooth position.

- **Indication based**
  The 3D Low Dose is suitable for a variety of clinical situations: implant osseointegration control in 3D in the dose range of a 2D X-ray, or orthodontic treatment planning, or tooth position evaluation, especially for young, radiation-sensitive patients.

- **Dedicated copper filter**
  In contrast to conventional low dose approaches, the Dentsply Sirona Intelligent Low Dose not only lowers the mA but also applies a dedicated copper filter. This enables good visibility of dense structures such as bone, despite the low dose.

- **Intuitive**
  With Dentsply Sirona X-ray Solutions, you can be sure to obtain 3D information in the dose range of a 2D X-ray with just a single click.

	Patient µSv			
Protocol				
HD 17x13 center	98	122	147	171
SD 17x13 center	39	51	73	95
Low 17x13 center	13	15	21	28

J. Waschkewitz and C. Buss et al., University Medical Center Hamburg-Eppendorf, measurement method according to Ludlow

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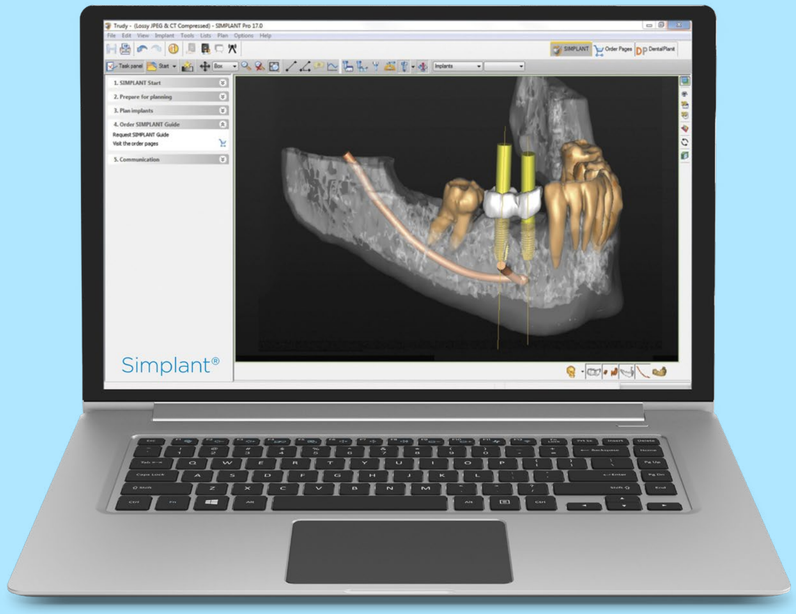
Simplant Planning Services

With Simplant Planning Services you can collaborate with implantology experts to accurately plan your implant treatment so you can confidently place implants with a patient-specific surgical guide – designed by us, approved by you. This comprehensive solution aids you throughout the process and supports you in achieving successful results.

Empowering you with the tools needed to easily plan and safely execute a surgery, Simplant Planning Services offers a smooth entry into the world of implant treatment and helps you take on more complex cases. As an integral part of Dentsply Sirona's digital implant workflow, you can rely on an experienced partner to build your dental business.

Receive behind-the-scenes support, while staying in control of your implant planning cases.



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Sicat Implant 2.0

Modern and intuitive implantology

Whether you are just getting started or are already an experienced implantologist, Sicat Implant 2.0 effectively guides you through the implantology workflow with ease and efficiency.

Featuring seamless integration between diagnosis and planning, you get a truly unique user experience and an effective partner for your implant workflow.

Sicat Implant 2.0 supports precision and accuracy during the implant planning process. This helps the clinician to foresee any unfavorable complications prior to treatment, and helps to promote clinical confidence during surgery. In combination with the numerous surgical guide options, which can be ordered directly in the software, sent out to a local lab, or milled directly in-house with your CEREC milling unit, you are supported until the final placement of the implant.

Learn more >

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DS X-ray Solutions: patient care empowered by collaboration

Treat more patients in-house to empower the growth of your practice while benefiting from improved diagnostics and treatment planning. DS X-ray Solutions, powered by DS Core, can help you make it possible.

Optimize your diagnostics:

Obtain high-quality images to make a more informed diagnosis, using expertly engineered features such as the Metal Artifacts Reduction Software, a standard in all our CBCTs. Take a comprehensive approach to case assessment using Sidexis 4 and its ability to view patient files in multiple presentations.

Collaborate seamlessly:

DS X-ray Solutions, powered by DS Core, make collaboration on patient cases easy and efficient. Send X-ray files and patient records to your partners with the click of a button, all while supporting GDPR/HIPAA regulations.

Grow your practice with confidence:

Easy to use and versatile in its offering, DS X-ray Solutions allow to you to delegate responsibilities and treat more cases in-house. Use Sidexis 4 for clear visualizations to help encourage more treatment acceptance from your patients while maintaining one comprehensive patient media library through synchronizations with DS Core.

Technical properties overview

	Axeos	Orthophos S 3D 11	Orthophos S 3D 8	Orthophos S 2D	Orthophos E
3D Fields of View	Ø5x5.5cm, Ø8x8cm, Ø11x10cm, Ø17x13cm	Ø5x5.5cm, Ø8x8cm, Ø11x10cm	Ø5x5.5cm, Ø8x8cm	3D Upgradeable	2D only
Patient Positioning	Automatic	Automatic	Automatic	Automatic	Manual
Intelligent Low Dose	Standard	Standard	Standard	–	–
MARS (Metal Artifacts Reduction Software)	Standard	Standard	Standard	–	–
HD Mode (Up to 80µm)	Standard	Standard	Standard	–	–
3D scan time[1]	2.2–16.7s	2.2–14.4s	2.2–14.4s	–	–
2D scan time panoramic image[2]	8.0–14.1s	8.0–14.1s	8.0–14.1s	8.0–14.1s	max 14.2s
Extraoral Bitewings	Standard	Standard	Standard	Standard	Standard
Pan sensor technology	DCS	CsI Plus	CsI Plus	CsI Plus	CsI
Autofocus	Standard	Standard	Standard	Standard	–
Ceph Arm L or R (optional)	Left or Right	Left or Right	Left or Right	Left or Right	Left
User interface	EasyPad +	Easy Pad	Easy Pad	Easy Pad	Multipad
Image Specs 3D (voxel)	0.08–0.22mm	0.08–0.22mm	0.08–0.22mm	–	–
Ambient Light	Standard	–	–	–	–
X-ray generator	60–90kV, 3–16mA	60–90kV, 3–16mA	60–90kV, 3–16mA	60–90kV, 3–16mA	60–90kV, 3–16mA

1. Only radiation, not program duration, over all modes (SD, HD, Low).
2. Only radiation, not program duration. Quickshot not considered.

Programs

Programs	Orthophos E	Axeos and Orthophos S
Standard panoramic image	P1, P10	P1, P2, P10
Image detail left side or right side	P1L, P1R	P1, P1A, P1C P2, P2A, P2C P10, P10A, P10C BW1
Image detail individual quadrants	–	P1, P1A, P1C P2, P2A, P2C P10, P10A, P10C
Image detail upper or lower jaw	–	P1, P1A, P1C P2, P2A, P2C P10, P10A, P10C, P12
Constant magnification	P1C	P1C, P2C, P10C
Artifact-reduced	P1A	P1A, P2A, P10A
Thick layer front	P12	P12
Sinus	S1	S1, S3
Multislice of premolars	MS1	–
Temporomandibular joint	TM1.1, TM1.2	TM1.1, TM1.2, TM3
Bitewing image	BW1	BW1, BW2
Ceph (optional)	C1, C2, C3, C3F, C4	C1, C2, C3, C3F, C4

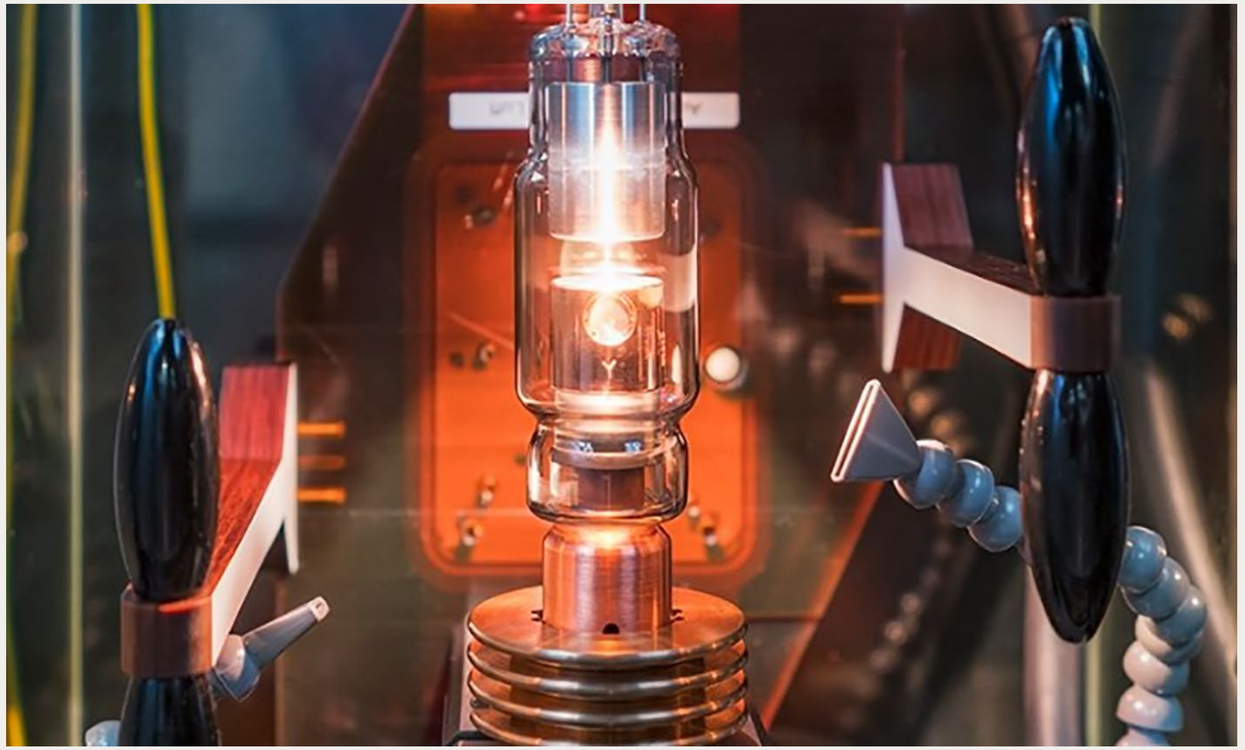
Technical properties overview

Click on each product group to learn more

Extraoral units

Software

Intraoral units



X-ray Tube

Technical properties

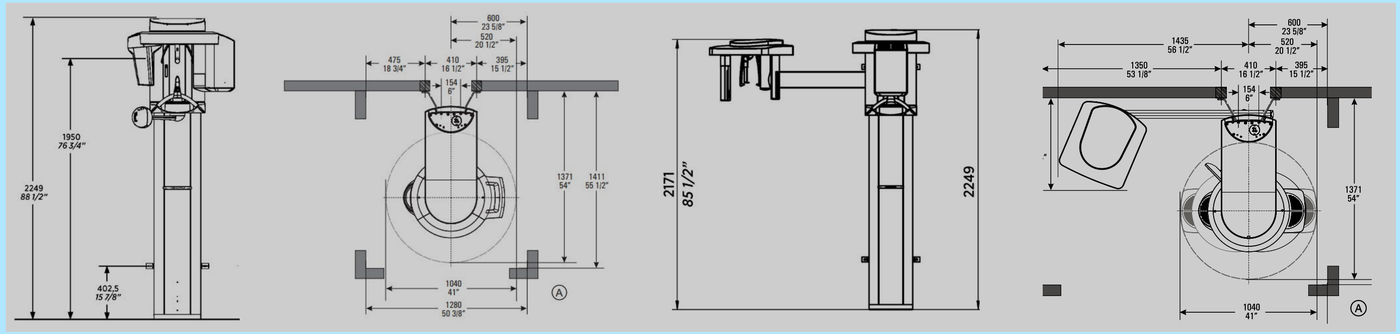
Click on each product group to learn more

Extraoral units

Software

Intraoral units

Technical Dimensions



Recommended room dimensions:
- Orthophos/Axeos: space required 1.280mm x 1.411mm.
- Orthophos/Axeos with ceph side arm: space required 2.155mm x 1.411mm.

Minimum room dimensions:
- Orthophos/Axeos: space required 1.040mm x 1.371mm.
- Orthophos/Axeos with ceph side arm: space required 1.955mm x 1.371mm.

PC Requirements

Requirements for one image acquisition computer

Specification for only one computer needed to allow device integration in your practice.

	Axeos	Orthophos S 3D	Orthophos S 2D	Orthophos E
Operating system	Windows 10 Enterprise (64-bit) Windows 10 Pro (64-bit) Windows 11 Pro (64-bit)	Windows 10 Enterprise (64-bit) Windows 10 Pro (64-bit) Windows 11 Pro (64-bit)	Windows 10 Enterprise (64-bit) Windows 10 Pro (64-bit) Windows 11 Pro (64-bit)	Windows 10 Pro (64-bit) Windows 10 Enterprise (64-bit) Windows 11 Pro (64-bit) Windows 11 Enterprise (64-bit)
RAM	16GB	16GB	16GB	4GB
CPU	≥2.3GHz QuadCore Processor 64-bit with SSE3 support (Intel i73xx or comparable)	≥2.3GHz QuadCore Processor 64-bit with SSE3 support (Intel i73xx or comparable)	≥ Intel i3 3rd Generation or comparable RAM 16GB	2GHz/2-core processor
Hard drive	≥2TB	≥1TB	≥1TB	At least 5 GB of free space
Graphic	DirectX 11-graphic adapter (min. 4GB RAM)	DirectX 11-graphic adapter (2GB RAM dedicated) with latest graphic card driver	DirectX 9.0 graphic card (512MB RAM dedicated) or Intel Onboard Graphics with the latest graphic card driver	512MB, DirectX 9.0c compatible or Intel onboard graphics
Screen resolution	Minimum 1280×1024 pixels Recommended 1600×1200 pixels			

Technical properties

Click on each product group to learn more

Extraoral units

Software

Intraoral units

PC Requirements

To meet the different requirements depending on the size of the practice or clinic, the recommended hardware requirements for the server PC are differentiated according to the number of workstations. This allows a better working speed (performance) to be achieved depending on the size of the practice. The hardware requirements for the workstations are independent of the size of the practice.

Server PC

Click on each feature to learn more

	Minimum requirements	Recommended for up to 20 workstations	Recommended for up to 50 workstations	Recommended for more than 50 workstations
Operating system	Windows 10 Pro (64-bit)[1,2] Windows 10 Enterprise (64-bit)[1,2] Windows 11 Pro (64-bit)[1,3] Windows 11 Enterprise (64-bit)[1,3] Windows Server 2016[4] Windows Server 2019[4] Windows Server 2022[4]	Windows Server 2016[4] Windows Server 2019[4] Windows Server 2022[4]	Windows Server 2016[4] Windows Server 2019[4] Windows Server 2022[4]	Windows Server 2016[4] Windows Server 2019[4] Windows Server 2022[4]
MS SQL server	MS SQL Server 2017 Express (included in the Sidexis 4 setup)	MS SQL Server 2017 Express (included in the Sidexis 4 setup) or higher version	MS SQL Server 2017, 2019 or 2022 (not included in the scope of delivery)	MS SQL Server 2017, 2019 or 2022 (not included in the scope of delivery)
CPU	2GHz/2-core processor	2.3GHz/4-core processor	2.3GHz/4-core processor	2.4GHz/12-core processor (e.g. XEON E5- 2673v3
RAM	4GB	8GB	16GB	32GB
Hard disk	>1TB	>1TB	>1TB free space	>1TB
	Sufficient disk space must be ensured even during operation			
Graphics card	Any	Any	Any	Any
Network	1 Gbps Ethernet with DNS	1 Gbps Ethernet with DNS	1 Gbps Ethernet with DNS	5-10 Gbps Ethernet with DNS

1. Using these systems for server operation is not recommended, as they are not designed by Microsoft for this purpose. Slower performance compared to a server operating system is to be expected.
2. Tested with: Version 21H2
3. Tested with: Version 21H2
4. With desktop display, Windows Server Core is not supported.

Workstation PC

	Minimum for 2D stations	Minimum for 3D stations
Operating system[1]	Windows 10 Pro (64-bit)[5,6]; Windows 10 Enterprise (64-bit)[5,6]; Windows 11 Pro (64-bit)[7]; Windows 11 Enterprise (64-bit)[7]	
CPU	2GHz/2-core processor	2.3GHz/4-core processor
RAM	4GB	8GB
Graphics card	512MB, DirectX 9.0c compatible or Intel onboard graphics[8]	2GB, DirectX 10 compatible or Intel onboard graphics[8]
Hard disk	At least 5 GB of free space	
Network	1 Gbps Ethernet with DNS	
Screen resolution	At least 1280×1024 pixels, recommended: 1920×1080 pixels	
Optical drive	DVD ROM; DVD RAM (for use with wrap & go)	

5. For 64-bit operating systems, installation using Boot Camp (Apple IOS) is also approved.
6. Tested with: Version 21H2
7. Tested with: Version 21H2
8. To ensure that the interaction with the 3D rendered volume is reliably “judder-free”, graphics cards are recommended with at least the following Passmark GPU benchmark values:
   NVIDIA: Passmark >1000
   AMD: Passmark >1500
   Intel Onboard: Passmark >540

   The Passmark values can be found at www.videocardbenchmark.net if the name of the graphics card is known.

Technical properties

Click on each product group to learn more

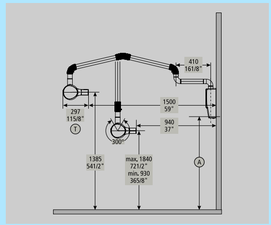
Extraoral units

Software

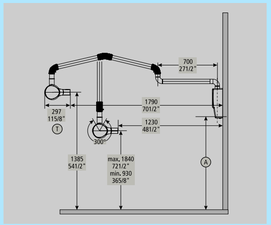
Intraoral units

Xios XG Supreme	
Sensors	
Active area sensor 0	18 mm x 24 mm
Outer dimensions sensor 0	23.6 mm x 32 mm x 7.5 mm
Active area sensor 1	20 mm x 30 mm
Outer dimensions sensor 1	25.4 mm x 38.3 mm x 7.5 mm
Active area sensor 2	25.6 mm x 36 mm
Outer dimensions sensor 2	31.2 mm x 43 mm x 7.5 mm
Physical pixel size	15 µm
Visible resolution	28 lp/mm
Theoretical resolution	33 lp/mm
Cable length	Up to max. 2.7 m
USB module	
USB port of USB interface	USB 3
Power supply	USB port

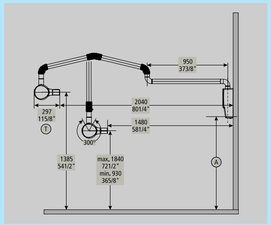
Heliodent Plus	
Generator type	High-frequency generator for constant high voltage
Tube voltage	Adjustable between 60 kV and 70 kV
Tube current	7 mA
Focal spot	0.4 (IEC 336)
Line voltage	120–240 V ±10% without switching, 50/60 Hz
Exposure time	Incrementally adjustable from 0.01 to 3.2 s
Detector media	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 LED view, mobile model



Heliodent Plus, medium support arm*



Heliodent Plus, long support arm*



Heliodent Plus, extra long support arm*

*Exact dimensions of installation in the installation requirements

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