3D Imaging Family
A new dimension of success in your practice
dentsplysirona.com
Good reasons for 3D

With 3D imaging, you have the ideal basis for a new dimension of success in your practice.

Best image quality at a low dose and shorter visits—that is what Dentsply Sirona 3D X-ray units provide for your practice. These benefits provide greater certainty to help make difficult diagnoses easier, while providing the opportunity to explore new options for implantology, endodontics, orthodontics, and more.

Thanks to the 3D Family, Galileos® Comfort Plus, Orthophos® SL 3D and Orthophos XG 3D, patients have a better understanding of the diagnosis and accept treatment more readily. It all adds up to efficient clinical workflow that leads to greater practice success. Enjoy every day. With Dentsply Sirona.

BETTER
Communicate with stunning images to your patients

SAFER
Predictable diagnosis and treatment options

FASTER
Efficient clinical workflow
Your patients are candidates for 3D more often than you think.

How severe is the bone atrophy or the periapical lesion? Is the tooth impacted? In all dental disciplines, there are numerous questions that can be answered far more easily using 3D imaging with CBCT.

3D CBCT from Dentsply Sirona offers clinicians and specialists numerous options for diagnosis, treatment plans, patient consultation—all with a seamless, efficient workflow. This is one way you can expand your range of services and treat more patients at your practice. With Dentsply Sirona 3D, patients understand and accept treatment recommendations more readily, improving their overall experience. Dentsply Sirona 3D allows a broadened range of procedures for your practice, from placing implants faster and with confidence to providing TMD and sleep apnea solutions.

### Areas and Cases

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<tr>
<td>Implantology</td>
<td>e.g., recognizing case risks and limitations before performing a surgical procedure, performing implants with minimal invasion, assessing the prosthesis and surgical conditions at the same time</td>
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<tr>
<td>Endodontics</td>
<td>e.g., detecting auxiliary and hard to find canals and traumas to the dentoalveolar complex, depicting internal and external root resorption, preoperative diagnostics in the case of periapical osseous lesions, preoperative endodontics planning (e.g., before apicoectomy)</td>
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<tr>
<td>Oral and maxillofacial surgery</td>
<td>e.g., displaced teeth, fracture diagnostics, sinus diagnostics, cysts, retained roots, orthognathic surgical procedures</td>
</tr>
<tr>
<td>Orthodontics</td>
<td>e.g., displaced, impacted teeth, cephalometric analysis, root resorptions, cleft lips, jaws, and palates</td>
</tr>
<tr>
<td>TMD treatment</td>
<td>e.g., functional diagnostics and therapy of the temporomandibular joint dysfunctions (TMD)</td>
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<tr>
<td>General dentistry</td>
<td>e.g., contradictory findings, as well as those that are difficult or impossible to view in the 2D panoramic image, apical radiolucency, periodontal indications and extent of lesions, patient consultation, implantology, and minor oral surgical procedures</td>
</tr>
<tr>
<td>Airway analysis</td>
<td>3D visualization of the airways, while taking the position of the condyle into consideration can significantly help with appliance based therapy</td>
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What does 3D from Dentsply Sirona offer?

Best image quality at a low dose and an efficient workflow: That is Dentsply Sirona’s basic principle for all of our dental X-ray tools and software.

Best image quality
From the positioning of the patient to the optimized image, all elements of the image process are carefully synchronized to complement each other. High resolution and noise reduction work together. The reduction of metal artifacts produces images with reduced scatter. And when it comes to the highest image quality, choose the HD mode with Galileos® Comfort Plus, Orthophos® SL 3D, and Orthophos XG 3D.

Low dose
For patients, the lowest possible exposure to radiation is crucial. This is why we use an image intensifier with state-of-the-art technology for the large scan volumes. You can lower the dose even further by choosing a smaller volume for the least exposure to radiation.

Perfect workflow
Intuitive handling, time-saving, findings-oriented work, individualized with just a few clicks: The Sidexis software package is tailored exactly to the needs of the practice. In addition, Dentsply Sirona CBCT systems are also compatible with most third-party software for orthodontics, which makes processing 3D X-rays extremely simple.
Working digitally is now so easy

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

With its intuitive user interface, Sidexis 4 software has a very simple structure: it follows the clear direction of your work processes and at a glance—whether 2D, 3D, or intraoral. This integrates your patients optimally and thus results in a high acceptance of your treatment proposal. Sidexis 4 stands for real imaging efficiency.

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

"Lightbox" feature allows the simultaneous display of multiple images obtained from a variety of sources, including FaceScan images, digital X-rays, pan-ceph images, CBCT scans, intraoral cameras, and more.

Clear and understandable workflows
With easy-to-understand symbols, the software is simple to use. It is geared to your practice workflows and it helps the entire practice team to use the software intuitively.
Sidexis 4

The new standard in clinical diagnosis and patient communication.

Sidexis 4 is the software for clear diagnoses. It efficiently structures your workflow in its modern and intuitive design and serves as a basis for further planning and diagnosis.

1 Scan
For intraoral, 2D or 3D scans, or intraoral camera images, with Sidexis 4 you are prepared for every situation. The software controls your X-ray unit within the Dentsply Sirona workflow and the images are assigned directly to the respective patient file. This speeds up your work in the practice.

2 Diagnosis
Once you have used the new, well-planned diagnosis functions of Sidexis 4, you won’t want to be without it. The timeline function shows you the visual patient history in chronological order, and using the Drag & Drop function, you can easily select the images that you require for your diagnosis.

For the most effective comparison, images are drawn together in a Lightbox whether they are 2D, 3D, or intraoral. 3D can also be used interactively in this view.

3 Planning
When you have finished making your diagnosis, Sidexis 4 offers you a variety of solutions that are directly linked with the software. Whether the treatment plan involves sleep apnea, implants, or TMD, the SICAT software package includes solutions for these problems and many others. Use these in Sidexis 4 and plan your treatment reliably and quickly.

4 Treatment
More work remains in your practice. The entire package of Sidexis 4 and SICAT allows you to offer your patients a wide range of solutions—without the need to refer your patients elsewhere. Your patients benefit from fewer visits and you benefit from doing more in your practice.

Scan
Diagnosis
Planning
Treatment

Surgical Guide
Sleep Appliance
Endo Guide
TMD Appliance

10/11
Place implants safely

Whether you are a first-time user or a specialist, Galileos® Implant software makes implant planning very easy and ensures highly accurate and predictable results.

Galileos Implant software efficiently guides clinicians through the planning process within minutes. Thanks to color visualization of the nerve canal and the depiction of the bone structure in all dimensions, the implant can be optimally positioned to fit the patient’s anatomy. This ensures a high degree of safety and longevity of the implants because negative effects can be avoided through precise planning and placement.

You can order the surgical guides directly in the software with a click of the mouse. Or, you can opt for an integrated implantology system and benefit from a unique workflow combined with CEREC®.
The simple way to a completed implant

Software and hardware perfectly coordinated—that is Dentsply Sirona quality in implantation.

With the support of the Galileos® implant software, prosthetic suggestions from the CEREC® software can be combined with your 3D X-ray data. In this way you can enjoy absolute certainty in an efficient, time-saving workflow. And your patients can look forward to perfect results with fewer treatment sessions.

Scan:
In the first step, all of the necessary images for planning are prepared: Digital impressions for the prosthesis and 3D X-ray images for surgical planning.

Plan:
The prosthetic suggestion and the X-ray data are combined in the software. On the basis of this combination, implant planning and the completion of the appropriate surgical guide follow.

With CEREC Guide 2, Dentsply Sirona has the most convenient and quickest in-house surgical guide in the world to start the placement of the implant in the 1st appointment.

Place:
Next, the implant is inserted securely and in an uncomplicated fashion using the surgical guide, which allows minimally invasive work.
With CEREC Guide 2, you now have the benefit of restoring the implant in the 2nd appointment.

Restore:
In the final step, you plan the abutment and crown with the CEREC software*, which you then produce quickly and very precisely in your own practice with CEREC MC X or the MC XL Premium package.
The crown is precisely fitted and this is monitored with either intraoral sensors or a 3D Low dose image.

* CEREC Software version 4.4 or later is required.
Precise planning

Implant planning with the Galileos implant is simple, accurate, and saves time. You select the appropriate implant from the integrated database, together with the standard abutment and position it in all views comfortably and optimally.

Safe implementation

Inexpensive, highly accurate surgical guides with which you can safely place the implant; this can be obtained in four ways.

SICAT CLASSICGUIDE

SICAT checks every implant planning data and the radiographic template before fabricating your SICAT CLASSICGUIDE to guarantee the ultimate precision of .5mm at the apical end. Assurance on precise surgical guides gives you the confidence you need for successful implant placements.

SICAT OPTIGUIDE

The SICAT OPTIGUIDE receives its name from the optimal clinical workflow including digital data only with highest precision guaranteed. After double checking your treatment plan SICAT fabricates the OPTIGUIDE on the basis of optical scans by CEREC®.

DIGITALGUIDE

The DIGITALGUIDE is your local SICAT surgical guide solution. It gives you the opportunity to print a surgical guide designed by SICAT at any local laboratory without losing confidence on double checked treatment plans. You also have the flexibility of over 500 implant lines to choose from by gaining faster turnaround to meet even the tightest deadline.

CEREC Guide 2

You can fabricate a surgical guide in less than one hour with CEREC using optical impressions and Dentsply Sirona 3D X-ray scans. You no longer need to create a model and fabricate an X-ray template with reference bodies. Thus CEREC Guide 2 is a fast and cost-effective way to produce surgical guides.
Unique possibilities

In addition to integrated implantology, Sidexis 4 integrates many other time-saving and convenient software solutions. SICAT Air is the first 3D solution to allow the analysis of the upper airway in 3D and also efficiently supports the practitioner with the planning of an appliance-based treatment of obstructive sleep apnea. SICAT Endo is the first and only 3D solution for the diagnosis and planning of root canal treatment. SICAT Function offers a simple workflow for functional diagnosis and therapy of temporomandibular joint dysfunctions.

SICAT Air

After analysis of the upper airways in 3D, SICAT Air allows the comparison of two segmented 3D scans of the patient’s airways. Possible changes in the airway become clearly visible. Once a patient is diagnosed with obstructive sleep apnea using 3D CBCT imaging and SICAT Air, the MATRx plus readily determines whether the patient can be treated with the OPTISLEEP appliance, which can be ordered in a fully digital workflow.

SICAT Endo

A dedicated guided endodontic diagnosis and treatment planning solution, SICAT Endo and ACCESSGUIDE is optimized for 3D CBCT X-ray as well as CEREC. With full Sidexis 4 integration, you can immediately start treatment planning without the need to export, convert, or import data. The easy-to-use software includes revolutionary tools to create endo-specific views allowing the visualization of curved structures and calcified canals.

SICAT Function

For the first time, SICAT Function gives an anatomically correct view of patient individual lower jaw movement in the 3D volume. Movement of the mandibular joint can be visualized for each point in the 3D volume.

SICAT Function with CEREC®

The combination of SICAT Function, SICAT JMT+, and CEREC allow for the first time the fabrication of prosthetic restorations based on the patient’s individual lower jaw movements.

Your benefit: Automatically adjusted restoration proposals lead to patient individual functional prosthetics.
The first fully digital workflow for a more restful sleep

MATRx plus™ with SICAT Air and OPTISLEEP is a complete 3D solution for the analysis and appliance-based treatment of Obstructive Sleep Apnea (OSA).

The Simple Sleep Solution integrates comparative airway images using a Dentsply Sirona 3D Imaging system and expands the SICAT Air and OPTISLEEP workflow by adding MATRx plus, making it the only solution offering a complete workflow from airway analysis, diagnostics of OSA, oral appliance study, to the treatment of OSA with a custom-fitted oral appliance.

SICAT Air and OPTISLEEP

The first effective 3D solution for appliance-based treatment of snoring and obstructive sleep apnea, SICAT Air and OPTISLEEP impressively improve your patients’ quality of sleep.

• Extremely slim design for enhanced patient comfort
• Fully digital process for accuracy and reproducibility
• Exchangeable connectors for easy and flexible adjustment
• Durable milled PMMA material for high quality and easy cleaning
• Appealing container for clean storage and easy transport
• Free patient marketing materials and integration into the practice locator on optisleep.com

OPTISLEEP appliance

OPTISLEEP is a two-piece appliance, offering patient comfort due to its slim design. The durable material and connector design are specifically stable and enable both complete sealing of the lips and normal breathing.

The exchangeable connectors come in 10 sizes that allow you to flexibly adjust the grade of protrusion. OPTISLEEP covers all teeth to avoid the elongation of individual teeth, and the continuous covering of the occlusal plane allows for a relaxed jaw position.

Better, safer, faster in 3 patient visits resulting in superior therapy and optimized clinical workflow.

MATRx plus™

An innovative, easy-to-use tablet-based and cloud-connected home sleep testing system, MATRx plus simplifies patient selection for oral appliance therapy by identifying responders and their effective target protrusive position in advance of appliance fitting. This position and the respective jaw relation are exactly transmitted into the final appliance with SICAT Air via a fully digital workflow.

• Cloud-based connectivity streamlines sleep physician study analysis, interpretation, and OSA diagnosis
• Knowing who to treat gives your patient confidence in therapy
• Accurate prediction of target protrusion eliminates guesswork and saves chairtime
• MATRx plus comes standard with Orthophos SL 3D-Ai

Digital workflow with MATRx plus, SICAT Air, and OPTISLEEP

1. Baseline 3D X-ray scan with a Dentsply Sirona 3D X-ray system for upper airway analysis.
2. OPTISLEEP delivery at MATRx plus target and presentation to patient including review of application and care.
3. 3D X-ray scan with the patient wearing the MATRx plus titration trays at target position and capturing of the optical surface scan data of the patient’s upper and lower jaw. Subsequent fusion with the 3D data within SICAT Air.

*MATRx plus and all claims are trademarks of Zephyr Sleep Technologies. MATRx plus is sold separately.
SICAT Endo and ACCESSGUIDE

More than 3D - the first dedicated guided endo solution.

SICAT ENDO is the first and only 3D solution for the diagnosis and planning of endodontic treatment, which can also support you in the realization of guided root canal treatment.

- Easily identify all canals in 3D
- Determine the exact working length and depth of cavity access including outstanding 360° view
- Integrated optical impressions provide a precise visualization of occlusal reference points

SICAT ACCESSGUIDE is a surgical guide specifically designed for guided root canal access. The SICAT ACCESSGUIDE enables more predictable treatment outcomes through its highly accurate surgical guide design, as well as minimally invasive and efficient preparation of the access cavity while reducing the risk of perforation.

1. Using Schick 33 intraoral sensors, in combination with the 3D data from your Dentsply Sirona Imaging System, you can start immediately with diagnostics and treatment planning in SICAT Endo thanks to the full integration with Sidexis 4.

2. Identify and diagnose all root canals easily and reliably. Use the cutting-edge visualization options for focused endodontic diagnostics and accurately determine your working length.

3. The ability to display the straight line access helps to create a strategic treatment plan and supports you during patient consultation.

4. ACCESSGUIDE is the first and only surgical guide designed specifically for orthograde or endodontic treatment for better predictability of treatment, highly accurate surgical guide design and minimally invasive and efficient cavity access.
SICAT Function

A simple workflow for diagnosis and treatment of TMD.

SICAT Function is the first integrated digital 3D solution to visualize real patient-individual movement of the lower jaw within the 3D volume. The anatomic traces of the temporomandibular joint can be displayed for every possible position in the volume.

Thanks to the highly precise recording of all degrees of freedom and movements of the mandible with the SICAT JMT+, you can now transfer, visualize, and diagnose anatomically correct jaw movement within the 3D volume.

SICAT Function and CEREC®

Functional prosthetics.

SICAT Function and CEREC® workflow

1. Diagnostic patient information from a 3D X-ray system, Jaw Motion Tracker (SICAT JMT+ / Facebow), and optical surface scan data obtained from CEREC, are merged in SICAT Function.

2. The integration of jaw movement data in CEREC allows a restoration design that takes the actual dynamic of the lower jaw into account, allowing for the first time the fabrication of prosthetic restorations based on the patient individual lower jaw movement for the highest level of articulation. Automatically adjusted restoration proposals lead to patient individual functional prosthetics.

SICAT Function and OPTIMOTION

Individual functional treatment for TMJ.

SICAT Function and OPTIMOTION workflow

1. Recording of the CEREC® optical surface scan data of the patient’s upper and lower jaw and subsequent fusion with the 3D data and SICAT JMT+ / Facebow within the SICAT Function software.

2. Patient consultation: Each patient is individual, and so is each SICAT OPTIMOTION appliance. Following diagnosis and planning in SICAT Function, a SICAT OPTIMOTION therapeutic appliance can be ordered according to the practitioner’s preference. The CEREC optical scan provides the occlusal surface data necessary to produce a precise-fitting, optimally functional OPTISLEEP appliance.

3. Deliver the OPTIMOTION fabricated appliance to the patient. The completely digital workflow saves time and ensures the exact fit of the therapeutic appliance.
Galileos® Comfort Plus
The complete X-ray solution for every practice.

Galileos Comfort Plus is the high-end CBCT unit with HD mode, large field-of-view, and packages that include Galileos FaceScan and SICAT Function, offering maxillofacial surgeons, orthodontists, radiologists, general dentists, and ENT doctors all the options they need for diagnosis, treatment, and patient consultation.

The optional HD mode of Galileos Comfort Plus ensures the highest image quality for a clear and quick diagnosis, even in difficult cases.

- 15.4 cm spherical volume with MARS
- Close-up feature with 125µ resolution for endodontic applications
- Lateral and AP/PA Cephalometric views
- One of the lowest diagnostic doses per volume size available
- Stable patient positioning, whether standing or sitting
- 14 second scan for minimized patient movement
- Seamless workflow integration
- Software with superior diagnostic features

### Integrated FaceScan

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<th>Galileos® Comfort Plus</th>
<th>Implant</th>
<th>Air</th>
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<td><strong>Function Package:</strong></td>
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</tr>
<tr>
<td>RCU, Galileos Implant, SICAT Air, SICAT Function</td>
<td>■</td>
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<tr>
<td><strong>Standard Package:</strong></td>
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</tr>
<tr>
<td>RCU, Galileos Implant, SICAT Air</td>
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</table>
More about

**Galileos® Comfort Plus**

**Galileos FaceScan**
The FaceScan plots the patient’s facial surfaces at the same time the X-ray image is taken. With a realistic image of their own face, patients understand and accept treatment recommendations more readily. And now, with Sidexis 4, FaceScan is integrated into one diagnostic software.

**Integrated implantology**
Implants with a final prosthesis in fewer visits. The prosthetic suggestion from the CEREC® software is united with the 3D X-ray data, helping to achieve the perfect final outcome.

**Compatible with third party software including Dolphin**
The Dolphin 3D imaging software is a powerful tool for orthodontists that makes processing 3D data from any Dentsply Sirona CBCT X-ray system extremely simple. Dolphin 3D features tools for on-screen manipulation and analysis of volumetric datasets. Images are easily oriented and rotated, and tissue density thresholds can be adjusted for detailed views of craniofacial anatomy. Measurements and digitization can be performed in both 3D and traditional 2D views. In addition to Dolphin integration, Sirona 3D CBCT systems are also compatible with other popular orthodontic software programs.

**SICAT Function**
The first integrated digital 3D solution to provide a simple workflow for diagnosis and treatment of temporomandibular joint dysfunctions (TMD).
Orthophos® SL 3D
A powerful performer for every practice.

A true all-in-one imaging unit that produces unbelievably sharp 2D panoramic images, offers full flexibility in 3D volumes, and provides simple, dependable positioning of the patient for perfect images and optimal reproducibility.

With the Orthophos SL 3D, your practice is well prepared for the various treatment situations you encounter every day. On the 2D side, the groundbreaking DCS sensor and SL technology satisfy the requirements of dentists with very high demands for panoramic imaging. In 3D, a variety of volumes allows you to adjust to the given indication with ease, whether it be 11 cm x 10 cm for the full dentition including wisdom teeth and upper airways, an 8 cm x 8 cm standard volume, or a 5 cm x 5 cm for a targeted area of interest—meaning your practice is well prepared for nearly all clinical situations.

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

Variety of volumes
Whether the analysis of the upper airways, extracting wisdom teeth, or the focused view of a specific area, Orthophos SL 3D has a number of volumes for a broad spectrum of applications.

Easy Volume Indicator (EVI) light localizer
In order to make best use of the volume sizes, the EVI light localizer automatically indicates the patient’s position in the volume.

MORE INFORMATION:
dentsplysirona.com

Smart solution:
Dynamic images that you can adjust to the situation.
Sharpness down to the smallest detail

Precise images, extremely low dose: Direct Conversion Sensor

The revolutionary DCS sensor converts X-rays directly into electrical signals without the conventional intermediate step of conversion into light. Thus, signal loss is minimized, resulting in images with unparalleled definition.

Direct Conversion Sensor (DCS)
Unparalleled image quality with the lowest dose: The Direct Conversion Sensor in Orthophos® SL directly converts X-rays into electrical signals. This leads to less signal loss and an improved yield of image information. The results produce high definition images—at an extremely low dose.
3D I-X adds a Low Dose mode to the Orthophos SL 3D imaging system.

Ideal for a large number of dental specialties
Intelligent filtering preserves the dense structures such as bones, so it can be used easily and efficiently in many specialists’ fields. The 3D I-X is suitable for checking implant positions, performing sinus analysis, and determining the position of teeth. This expands the application area of 3D imaging in the fields of implantology, orthodontics, and for dentists who treat a large number of children, as well as SICAT Air users who use 3D images to display the upper airways and treat obstructive sleep apnea.

Highest degree of safety
The Orthophos SL with 3D I-X is indication-based diagnostics using CBCT images in the same dose range as 2D images. This allows you to offer your patients the highest degree of safety with the lowest dose level.

Optimized radiation dose for every indication
With the three settings HD, SD and 3D I-X, the Orthophos SL can be ideally set to best suit the patient’s needs with the perfectly balanced image quality, volume and dose. While the HD mode provides images with maximum sharpness for visualizing fine structures, the 3D mode with an optimized radiation dose covers common indications. As a new addition, owners of this technology can clarify clinical issues for which a significantly reduced dose is sufficient with the 3D I-X function.
Minimum dose for maximum safety for your patients

**3D I-X for diagnostic optimization**

**Indication** based on the lowest dose

**Intuitive** selection for an efficient workflow

**Intelligent** technical realization for optimal results

- Locating displaced canine teeth
- Determining the position of teeth and reviewing courses of treatment in orthodontics
- Postoperative 3D check in implantology and surgery
- Analysis of the airways and paranasal sinuses

Orthophos® SL with **3D I-X**

Low dose for a wide range of clinical tasks

- Locating displaced canine teeth
- Determining the position of teeth
  - 5 cm x 5.5 cm at 3 µSv
  - 8 cm x 8 cm at 8 µSv

0
5
10
20
µSv

Orthophos® SL with 3D I-X

3D SD 8x8

Pan

Ceph

0
5
10
20
25
30
35
µSv

Orthophos® SL with 3D I-X

3µSv to 20µSv
Flexible volume selection

Orthophos® SL 3D is available in the following package configurations.

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<td>Orthophos SL 3D-Ai</td>
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<td>Orthophos SL 3D-11</td>
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<td>Orthophos SL 3D-i</td>
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<tr>
<td>Orthophos SL 3D-8</td>
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</table>

Everything in site: flexible volume selection

Orthophos SL 3D is available with your choice of 8 cm x 8 cm or 11 cm x 10 cm volume, both of which allow you to select the 5 cm x 5.5 cm volume for endodontic treatment and single implant planning. HD or SD mode and the possibility to select the volume size according to your diagnosis allow for excellent image quality by limiting radiation to the region of interest. The optional Ceph arm with Sidexis 4 and CephX integration provide accurate, on-point cephalometric trace and analysis perfectly suited for orthodontic treatment planning.

The right volume for all situations

Additional volumes available: 8 cm x 5.5 cm; 11 cm x 8 cm; 11 cm x 7.5 cm maxilla

Ambient light

The soothing ambient light with a range of over 30 colors creates a pleasant atmosphere for your patients and fits perfectly into your modern practice look.
The Orthophos® SL’s intuitive user interface and automatic positioning aids can be very easily operated by the practice team. This minimizes waiting times, avoids the need for corrections, and guarantees perfect results.

Using the patented auto positioner, the Orthophos SL automatically determines the correct head inclination—all you need to do is press the up and down arrows. The swiveling and tilting EasyPad guarantees optimal and simple operation with easily visible buttons and symbols.

**Easy operation, safe positioning**

The patented auto positioner
Position the patient with the patented auto positioner. 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.

Stable positioning for high-quality images
Stable patient positioning prevents motion blurring. The motorized 3-point head fixation and stable handles give your patients the necessary support. At the same time, the EVI* light localizers show you the patient’s position in the volume. The integrated temple width measurement ensures an orbit specific to each patient and thereby results in high image sharpness.

*Easy Volume Indicator
Whether implantology, endodontics, or orthodontics—Orthophos XG 3D provides the right X-ray image.

You will find a list of the 2D programs at the end of the brochure.

**Orthophos XG 3D**

Optimized for daily practice tasks: The hybrid Orthophos XG 3D unit combines 2D and 3D X-rays.

Orthophos XG 3D provides the clinical workflow advantages of 2D and 3D together while emitting the lowest possible effective dose for the patient.

The 3D function allows for increased diagnostic accuracy when it is needed most:
- Endodontic procedures
- Surgical procedures
- Orthodontic procedures with Cephal X and Sidexis 4 integration to provide accurate cephalometric trace and analysis
- Volumetric imaging of jaws, sinuses, and other dental anatomy
- 8 x 8 cm volumes (5.5 x 8 cm collimated volume) with MARS
- Automatic sensor rotation between 2D and 3D functions
- 5.5 x 5 cm HD module with MARS
- Optional Optiguide and CEREC® Guide for simplified integrated implantology

**MARS**

Reduces metal artifacts for a better diagnosis
- Makes it possible to provide an improved diagnosis in areas where it was difficult before due to metal artifacts

For standard 2D images, Orthophos XG 3D offers:
- The most comprehensive panoramic selections
- Automatic patient positioning using auto positioner
- HiDef sensor with ASTRA for 2D images with unprecedented clarity
- Sinus, TMJ, and extraoral bitewing options and many more

**Endo HD for Orthophos XG 3D**

HD volumetric images for accurate and precise endodontic treatment
- Increase diagnostic certainty and treatment planning: Utilizes a smaller volume (5 cm x 5.5 cm) specifically developed for the treatment of a highly focused region of interest

**Comparison of Standard and HD mode**

<table>
<thead>
<tr>
<th>Mode</th>
<th>VOL 1 (8 cm Ø x 8 cm height)</th>
<th>VOL 2 (5 cm Ø x 5.5 cm height)</th>
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<tr>
<td>Standard mode</td>
<td>200 individual images</td>
<td>Pulsed radiation</td>
</tr>
<tr>
<td>HD mode</td>
<td>500 individual images</td>
<td>Continuous radiation</td>
</tr>
</tbody>
</table>
ASTRA for Orthophos® XG 3D

For quick and reliable diagnoses in all cases, Orthophos XG 3D units offer three image options for 2D imaging:

- Standard view
- Artifact-reduced images with ASTRA
- Sharper, higher-contrast images for HD scans with the HiDef sensor

**Standard image quality**
Captured at 16 bits and automatically pre-processed, the standard image sensor generates images with an excellent standard resolution. The standard image provides the widest possible grayscale between black and white, ensuring easily recognizable details.

What is also crucial to the image quality is uniform irradiation by the high-frequency generator with simultaneous automatic adjustment to fluctuations in the object density in the spinal area. The kV level is raised in the spinal area so that the image shows no shadowing of the spine on the front teeth. Compared to an increase in tube current or reduction in circulation speed in the spinal area, this leads to a reduced patient dose.

**HD X-ray scans**
Together with the ASTRA, the HiDef sensor produces extremely high-contrast and detailed panoramic and cephalometric for easier diagnosis.

**ASTRA**
The ASTRA image-processing algorithm produces 2D panoramic and cephalometric images with unprecedented clarity and contrast:

- Highest 2D image quality at the touch of a button, for faster and better diagnoses thanks to clearer images
- Reduces false positive diagnoses of caries on metal margins
- Persuasive image impression, even for patients

ASTRA = Anatomically Structured Reconstruction Algorithm
Which unit is the one for you?

Frequency and type of use, specialization, price, and personal preferences—every dental practice has its own requirements for an X-ray unit. Here is a quick overview of which Dentsply Sirona 3D X-ray unit is right for you.

<table>
<thead>
<tr>
<th>Unit</th>
<th>Galileos® Comfort Plus</th>
<th>Orthophos® SL 3D</th>
<th>Orthophos® XG 3D</th>
</tr>
</thead>
<tbody>
<tr>
<td>General dentists</td>
<td>■</td>
<td>■</td>
<td>■</td>
</tr>
<tr>
<td>Orthodontist</td>
<td>■</td>
<td>■</td>
<td>■</td>
</tr>
<tr>
<td>Endodontist</td>
<td>■</td>
<td>■</td>
<td>■</td>
</tr>
<tr>
<td>Implantology practice</td>
<td>■</td>
<td>■</td>
<td>■</td>
</tr>
<tr>
<td>Oral and maxillofacial surgery</td>
<td>■</td>
<td>■</td>
<td>■</td>
</tr>
<tr>
<td>Radiology center</td>
<td>■</td>
<td>■</td>
<td>■</td>
</tr>
<tr>
<td>ENT practice</td>
<td>■</td>
<td>■</td>
<td>■</td>
</tr>
<tr>
<td>Functional Diagnosis/TMD</td>
<td>■</td>
<td>■</td>
<td>■</td>
</tr>
<tr>
<td>Sleep and Airway</td>
<td>■</td>
<td>■</td>
<td>■</td>
</tr>
<tr>
<td>Suitable</td>
<td>■</td>
<td>■</td>
<td>■</td>
</tr>
</tbody>
</table>

**Overview of 3D units**

**Galileos® Comfort Plus**

Our most comprehensive and capable 3D unit, ideal for full-service practices that routinely provide implantology, endodontics, oral and maxillofacial surgery, orthodontics, and general dentistry procedures. Galileos Comfort Plus meets the highest demands on a daily basis.

**Orthophos® SL 3D**

A genuine “all-around” X-ray unit. Orthophos SL 3D produces sharp 2D panoramic images with its DCS sensor and Sharp Layer Technology, as well as full 3D volume flexibility due to its selectable fields of view. Paired with Sidexis 4, it offers even more options for your practice, allowing you to be more efficient than ever before.

**Orthophos® XG 3D**

A proven hybrid 3D solution with a perfectly designed cylinder volume of 8 cm x 8 cm and a standard resolution of 160 µm. Orthophos XG 3D is precisely tailored to the everyday routines of private practices, such as capturing the patient’s whole jaw in a single span. The field of view is large enough to avoid stitching of several 3D images and negates the need for multiple X-ray exposures, yet it is small enough to be a time-saver in diagnosis.
## Technical data

### Technical Overview

<table>
<thead>
<tr>
<th>Technical Overview</th>
<th>Galileos® Comfort Plus</th>
<th>Orthophos® SL 3D</th>
<th>Orthophos® XG 3D</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Field of view</strong></td>
<td>15.4 cm spherical/imaging volume collimated 15 x 8.5 cm (UJ/LJ)</td>
<td>11 cm Ø x 10 cm height</td>
<td>8 cm Ø x 8 cm height</td>
</tr>
<tr>
<td></td>
<td></td>
<td>11 cm Ø x 7.5 cm height</td>
<td>8 cm Ø x 5.5 cm height</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5 cm Ø x 5.5 cm height</td>
<td>5 cm Ø x 5.5 cm height</td>
</tr>
<tr>
<td><strong>Resolution in 3D</strong></td>
<td>0.25/0.125 mm</td>
<td>0.16 mm; 0.08 mm in HD mode</td>
<td>0.16 mm; 0.1 mm in HD mode</td>
</tr>
<tr>
<td><strong>Scan time/exposure time</strong></td>
<td>14 s/2–5 s</td>
<td>2–5 s/14 s in HD mode</td>
<td>2–5 s/14 s in HD mode</td>
</tr>
<tr>
<td><strong>X-ray generator</strong></td>
<td>98 mA</td>
<td>60–90</td>
<td>60–90</td>
</tr>
<tr>
<td><strong>Effective dosage</strong></td>
<td>(ICRP 2007)</td>
<td>3–16</td>
<td>3–16</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>X-ray unit approx. 308 lbs</td>
<td>X-ray unit approx. 243 lbs</td>
<td>X-ray unit approx. 243 lbs</td>
</tr>
<tr>
<td><strong>Technical specifications</strong></td>
<td>EasyPad</td>
<td>EasyPad</td>
<td>EasyPad</td>
</tr>
<tr>
<td><strong>User interface</strong></td>
<td>Standing/seated, chin rest/bite block, forehead support and head fixation device</td>
<td>Standing/kneeling, chin support/bite block, occlusal bite block with automatic patient positioning, universal bite block with colored stop positions</td>
<td>Standing/seated, chin rest/bite block, occlusal bite block for automatic patient positioning for 2D panoramic radiography</td>
</tr>
<tr>
<td><strong>Wheelchair accessible</strong></td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Software</strong></td>
<td>Sidexis 4 – Image processing and management software</td>
<td>Sidexis 4 Image processing and management software</td>
<td>Galileo Implant Software</td>
</tr>
<tr>
<td></td>
<td>Galileo Implant – Implant planning software</td>
<td>Galileo Implant Software</td>
<td>Galileo Implant Software (optional)</td>
</tr>
<tr>
<td></td>
<td>CEREC® integration – Simultaneous prosthetic and surgical planning</td>
<td>CEREC Integration – Simultaneous prosthetic and surgical planning</td>
<td>CEREC integration – Simultaneous prosthetic and surgical planning (optional)</td>
</tr>
<tr>
<td><strong>Views</strong></td>
<td>Cephal, Cepho p. a., p., freely tiltable 2D slices, PAN with 3D slice navigation, TSA, LSA, axial, sagittal, coronal, 3D model, implant-oriented, high resolution detail volumes</td>
<td>Cephal, Cepho p. a., p., freely tiltable 2D slices, PAN with 3D slice navigation, TSA, LSA, axial, sagittal, coronal, 3D model, implant-oriented, high resolution detail volumes</td>
<td>Cephal, Cepho p. a., p., freely tiltable 2D slices, PAN with 3D slice navigation, TSA, LSA, axial, sagittal, coronal, 3D model, implant-oriented, high resolution detail volumes</td>
</tr>
<tr>
<td><strong>Packages</strong></td>
<td>Elite Function Standard</td>
<td>Implant Airway and Implant</td>
<td>—</td>
</tr>
<tr>
<td><strong>Retrofit options</strong></td>
<td>Galileo FaceScan SICAT Function</td>
<td>Airway Volume, Cepha Implant</td>
<td>—</td>
</tr>
<tr>
<td><strong>2 Day Clinical Training</strong></td>
<td>2 Clinicians</td>
<td>1 Clinician</td>
<td>1 Clinician</td>
</tr>
</tbody>
</table>

### 2D programs with Orthophos® XG 3D and Orthophos® SL*”

<table>
<thead>
<tr>
<th><strong>Function</strong></th>
<th><strong>Details</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Panoramic</strong></td>
<td>P1 orthoradial radiation</td>
</tr>
<tr>
<td></td>
<td>P2 without ascending ram</td>
</tr>
<tr>
<td></td>
<td>P3 without ascending ram</td>
</tr>
<tr>
<td><strong>Sinus</strong></td>
<td>S1 maxillary sinuses in one image</td>
</tr>
<tr>
<td></td>
<td>S2 maxillary sinuses in two images</td>
</tr>
<tr>
<td><strong>Multislice in posterior tooth region</strong></td>
<td>S3 maxillary sinuses in one image (linear)</td>
</tr>
<tr>
<td></td>
<td>S4 maxillary sinuses in two images (linear)</td>
</tr>
<tr>
<td><strong>Bitewing</strong></td>
<td>B1 anterior tooth region</td>
</tr>
<tr>
<td></td>
<td>B2 anterior tooth region</td>
</tr>
</tbody>
</table>

**3D programs**

- **Orthophos® XG 3D and Orthophos® SL**

- **Function**
  - Panoramic
  - Sinus
  - Multislice in posterior tooth region
  - Bitewing

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*In contrast to XG 3D, Orthophos SL does not have the following programs: TM2, TM4, TM5, TM6, MS1, S2, S3.
Dimensions for Orthophos®
Flexible X-ray imaging that accommodates any size practice.

Dimensions for Galileos®
Designed to fit your workflow and your practice.

**System Requirements**

<table>
<thead>
<tr>
<th>Server PC</th>
<th>Minimum requirements</th>
<th>Recommended requirements</th>
</tr>
</thead>
</table>
| Operating system | • Windows 7 Professional • Ultimate (64 bit)*  
• Windows 8 Pro (64 bit)*  
• Windows 8.1 Pro (64 bit)*  
• Windows Server 2008 (32 or 64 bit)  
• Windows Server 2008 R2 (64 bit)  
• Windows Server 2012 (64 bit)  
• Windows Server 2012 R2 (64 bit) | • Windows Server 2008 (64 bit)  
• Windows Server 2008 R2 (64 bit)  
• Windows Server 2012 (64 bit)  
• Windows Server 2012 R2 (64 bit) |

**RAM**
- ≥ 8GB: Galileos, Orthophos SL, Orthophos XG 3D
- ≥ 16GB: Orthophos SL Panoramic

**CPU**
- ≥ 2 GHz DualCore

**Hard disk**
- >675GB
  - During operation it must be ensured that there is always sufficient hard disk space available.

**Workstation PC**

<table>
<thead>
<tr>
<th>Recommended for 2D</th>
<th>Recommended for 3D</th>
</tr>
</thead>
</table>
| Operating system | • Windows 7 Professional, Ultimate (32 or 64 bit), also under Bootcamp*  
• Windows 8 Pro (64 bit)  
• Windows 8.1 Pro (64 bit)  
• Windows 8.1 Pro (64 bit)  
• Windows Server 2008 (64 bit)  
• Windows Server 2008 R2 (64 bit)  
• Windows Server 2012 (64 bit)  
• Windows Server 2012 R2 (64 bit) | • Windows 7 Professional, Ultimate (64 bit), also under Bootcamp*  
• Windows 8 Pro (64 bit)  
• Windows 8.1 Pro (64 bit)  
• Windows Server 2008 (64 bit)  
• Windows Server 2008 R2 (64 bit)  
• Windows Server 2012 (64 bit)  
• Windows Server 2012 R2 (64 bit) |

**RAM**
- ≥ 4GB

**CPU**
- ≥ 2 GHz DualCore

**Graphics card**
- ≥ 512MB

**DirectX**
- DirectX 9.0c

**Hard disk**
- ≥ 5GB

*System requirements of the hardware used may vary. More information at www.sirona.com/Sidexis4-system_requirements
**Certain requirements may change depending on the X-ray system used.
†The installation on a domain controller is not cleared.

**X-ray Cabinet (Optional)**
Organize bite blocks, hygiene covers, service kit, user manual, support rods, and more.

**PC Cabinet (Optional)**
Can be added to existing Orthophos® and Galileos® installations; No unit modifications necessary.

**Wheelchair Accessible**
Individual patient positioning even for wheelchair users.

**Space requirements**
The Orthophos SL 3D and XG 3D require a space of 50.4“ x 55.6“ (1280 x 1411 mm)

**Space requirements with cephalometric arm**
With the cephalometric arm (mounted on the left or right), the space requirement increases to 84.8“ x 55.6“.