Extraoral imaging

The Orthophos family

dentsplysirona.com/orthophos
The Orthophos family for extraoral imaging

As versatile as life in your practice, the Orthophos family ensures that you can work quickly, accurately and safely. Get to know our X-ray units. Each of the three models offers you the full expertise of Dentsply Sirona, the best image quality and programs to support your needs. From entry level digital radiography to the highest level of specialization, you’re provided with optimal support in a variety of clinical tasks.

Orthophos SL: The high-end 2D/3D X-ray unit with the best image quality for practices who want more
Orthophos S: The high-performance 2D/3D X-ray unit with a comprehensive range of capabilities for every practice
Orthophos E: The solid entry-level 2D unit for price-conscious practices and digitizer

Here’s what makes our family so unique:

- **Outstanding image quality**: Thanks to innovative technologies, the devices of the Orthophos family impress with sharp images all along.

- **The Direct Conversion Sensor**: Our unique DCS sensor with its autofocus function for images with outstanding sharpness.

- **Our unique autofocus**: The autofocus function for sharp, autofocus images even in anatomically difficult cases.

- **The patented occlusal bite block**: Maximum consistency and reproducibility in patient positioning.

- **Our 3D offer**: The right volume, upgradability and program for every indication (from Ø 5 cm x 5.5 cm to Ø 11 cm x 10 cm).

- **Fully flexible with Low Dose and HD**: From 3D exposures in the dose range of a 2D X-ray to high-definition images with a resolution of up to 80 μm.
Orthodontics for all cases

Versatility, well thought-out programs and outstanding image quality are just a few of the characteristics that make each member of the Orthophos family a perfect partner in your practice. In the field of orthodontics, they offer safe and efficient treatment using the ALARA principle - and support you in reaching an accurate diagnosis efficiently and with optimal clinical support. Clear case presentation helps improve overall patient communication and treatment acceptance.

3D endodontics

Does your practice offer endodontic treatments? This can offer many challenges. Emergency patients needing treatment, anatomically difficult canals, and a number of other unpredictable obstacles that you may be faced with. You also work closely with the referring dentists. 3D imaging visualizes hidden structures, reveals clinical issues and makes it possible to address each one individually.

SICAT Endo is a CBCT-based software providing you the ability to create a clear map detailing the route you will take into the canal, preparing you for any difficult anatomical structures that exist through realistic and detailed information.
Implantology made easy

A securely placed and prosthetically optimally aligned implant, thanks to perfectly coordinated software and hardware – that’s Dentsply Sirona implant quality. With the help of the implant-planning software Galileos Implant, you have the option of combining prosthetic suggestions from the CEREC software with your Orthophos 3D image data and adjusting the implant planning accordingly. So you can enjoy absolute safety with an efficiently navigated workflow.

Your extended practice services with sleep apnea treatment

SICAT Air is the first all-digital 3D software solution for upper airway analysis and splint therapy of obstructive sleep apnea. Offer upper airway analysis, treatment planning and the possibility of an OPTISLEEP protrusion guide all in a single session:

1. **Scan:** Intraoral impression for prosthetics – 3D radiography for surgical planning

2. **Plan:** Implant planning and the in-house or external production of the appropriate surgical guide

3. **Place:** Minimally invasive implant placement using the surgical guide – safe and uncomplicated

4. **Restore:** Planning, fabrication and insertion of the abutment and crown as well as control images

- **Direct visualization of constrictions** due to automatic segmentation of the upper airway in SICAT Air
- **Colored visualization of the upper airway** facilitates patient education and as a result, increases the acceptance of therapy
- **Ordering the patient-specific OPTISLEEP protrusion guide** With the help of the CEREC surface scan data in a purely digital workflow
Digital images in 2D

Digital imaging offers unbeatable benefits for every dental practice, creating a new standard for quality dental care. Lower radiation exposure and excellent images are associated with more efficient data management. When working digitally you have the ability to discuss your diagnosis, treatment methods and the services provided by your practice all completely chairside, allowing for a more attentive patient experience.

Your advantages at a glance:

- Outstanding image quality at the lowest dose
- Work more efficiently through optimal workflow
- Simplified findings through a variety of analysis tools
- By eliminating the need for a darkroom you free up valuable office space
- No toxic chemicals for developing images
- Better patient involvement
- Professional marketing of the practice services
DCS – Sharpness for fine details

The Direct Conversion Sensor (DCS) has redefined the standard of panoramic imaging. X-rays are converted directly into electrical signals – unlike conventional systems, there are no signal losses due to light conversion. This means an improved image information output for you. The result is images with a uniquely high level of sharpness – even at an extremely low dose.

Extraoral Bitewing

With all Orthophos models, you can use the bitewing function to create extraoral bitewing images with a lower dose and optimized curve for the posterior tooth region. With the image field selection you can focus on the area of interest.
**Autofocus – Automatically the best image**

In order to get a sharp panoramic X-ray image with high definition, the right focus is essential. The jaw must be in the sharp image layer of the device. For this, the Orthophos creates several thousand individual images in one rotation and automatically recognizes the areas in which the jaw is optimally positioned. These are displayed in an overall sharp image – without any manual intermediate steps.

---

**All 2D programs at a glance**

The digital image offers you the full range of applications. Here you will find an overview of all 2D programs:

<table>
<thead>
<tr>
<th>Programs*</th>
<th>Orthophos E</th>
<th>Orthophos S</th>
<th>Orthophos SL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard panorama image</td>
<td>P1, P10</td>
<td>P1, P2, P10</td>
<td>P1, P2, P10</td>
</tr>
<tr>
<td>Image detail left side or right side</td>
<td>P1L, P1R</td>
<td>P1, P1A, P1C, P2, P2A, P2C, P10, P10A, P10C, BW1</td>
<td>P1, P1A, P1C, P2, P2A, P2C, P10, P10A, P10C, BW1</td>
</tr>
<tr>
<td>Image detail individual quadrants</td>
<td>-</td>
<td>P1, P1A, P1C, P2, P2A, P2C, P10, P10A, P10C</td>
<td>P1, P1A, P1C, P2, P2A, P2C, P10, P10A, P10C</td>
</tr>
<tr>
<td>Image detail upper or lower jaw</td>
<td>-</td>
<td>P1, P1A, P1C, P2, P2A, P2C, P10, P10A, P10C, P12</td>
<td>P1, P1A, P1C, P2, P2A, P2C, P10, P10A, P10C, P12</td>
</tr>
<tr>
<td>Constant magnification</td>
<td>PIC</td>
<td>PIC, P2C, P10C</td>
<td>PIC, P2C, P10C</td>
</tr>
<tr>
<td>Artifact-reduced</td>
<td>P1A</td>
<td>P1A, P2A, P10A</td>
<td>P1A, P2A, P10A</td>
</tr>
<tr>
<td>Thick layer front</td>
<td>P12</td>
<td>P12</td>
<td>P12</td>
</tr>
<tr>
<td>Sinus</td>
<td>S1, S3</td>
<td>S1, S3</td>
<td>S1, S3</td>
</tr>
<tr>
<td>Multislice of premolars</td>
<td>MS1</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Temporomandibular Joint</td>
<td>TM1.1, TM1.2</td>
<td>TM1.1, TM1.2, TM3</td>
<td>TM1.1, TM1.2, TM3</td>
</tr>
<tr>
<td>Bitewing image</td>
<td>BW1</td>
<td>BW1, BW2</td>
<td>BW1, BW2</td>
</tr>
<tr>
<td>Ceph (optional)</td>
<td>C1, C2, C3, C3F, C4</td>
<td>C1, C2, C3, C3F, C4</td>
<td>C1, C2, C3, C3F, C4</td>
</tr>
</tbody>
</table>

* For image samples see page 38-39

---
Custom 3D image

Whether overlaid teeth, unexpected canals, hidden roots or in the case of orthodontic surgery, 3D images are invaluable in a variety of clinical tasks. In addition, they simplify patient communication for greater acceptance of your treatment proposal.

Your advantages at a glance:

- 3D visualizes hidden structures
- Increased diagnostic confidence
- Better integration of patients into planning
- Improvement of your practice offering and as such your success
- Eliminates the need to refer your patient out for a CBCT scan
The available volumes of our 3D models at a glance:

- Ø 5 cm x 5.5 cm
- Ø 8 cm x 8 cm
- Ø 11 cm x 10 cm

Additional available volumes (varies by model): Ø 8cm x 5.5cm, Ø 11cm x 8cm, Ø 11cm x 7.5cm

Precisely your volume – More possibilities for your practice

When it comes to volume size, dose and image quality, every clinical case brings with it individual requirements. The Orthophos family combines image quality and versatility. Choose the appropriate volume for your needs. From the focused Ø 5 cm x 5.5 cm volume to the Ø 11 cm x 10 cm volume, which displays the wisdom teeth and upper respiratory tract.

MARS – Metal Artifact Reduction Software

Metal artifacts are a challenge in 3D imaging. Radiopaque objects create shadowing and streaking effects during the three-dimensional reconstruction and as such interfere with the findings. MARS automatically reduces metal artifacts and facilitates the diagnosis.

MARS keeps anatomically relevant structures as free of artifacts as possible.

High Definition Mode (HD) – Fine details for safe diagnostics

Standard Definition mode (SD) provides all of your basic clinical information needed for a diagnosis, however in some cases it’s better to further increase the quality of the X-ray image. In endodontics, for example, you need better visibility of fine structures for treatment planning and implementation. For this purpose, the Orthophos offers you High Definition mode (HD), in which up to 800 individual images are recorded during one rotation and merged into a low-noise 3D volume with high resolution of up to 80 μm. This mode guarantees a faster and safer diagnosis within the recorded volume.  

Each volume can be adjusted accordingly in three different modes to adapt to each patient’s unique situation:

- High Definition (HD)
- Standard Definition (SD)
- Low Dose (Low)
Low Dose – CBCT in the dose range of a 2D image

The optimized Low Dose mode with a dedicated filter allows for the imaging of dense structures, like bone, at a greatly reduced dose. This makes Low Dose an efficient option for many clinical tasks – especially for those in orthodontics or implantology. With the two 3D models in the Orthophos family, you’re choosing on a case-by-case basis whether you use high-resolution volumes for fine structures (HD) or a low-dose image with a minimal dose.

Low Dose for a variety of clinical tasks

- Localization of displaced incisor Ø 5 cm x 5.5 cm at 3 μSv
- Tooth position determination Ø 8 cm x 8 cm at 8 μSv
- Tooth position determination in 3D at low dose, especially for young, radiation-sensitive patients
- Implant control in 3D in the dose range of an intraoral X-ray
- Sleep apnea therapy with SICAT Air and OPTISLEEP
- Program selection for the case-based application using the ALARA (As Low As Reasonable Achievable) principle

“With the new Low Dose mode, I can now optimally control the success of my work postoperatively in three dimensions, without exposing the patient to unnecessary radiation.”

Dr. med. dent Gerd Frahsek, Velbert
For you, choosing the Orthophos family is about two things: getting the best possible image to support your diagnosis and having your patient feel comfortable. For both, our models offer unique, patented solutions. Optimize your practice’s workflow with intuitive user interfaces and automatic positioning aids to avoid unnecessary secondary exposures.

**Easy to operate, secure positioning**

The Orthophos intuitively determines the correct tilt of the head for optimal positioning and informs you through correlating symbols and colors how to adjust accordingly with just the press of the up or down arrow. The EasyPad, which can be swiveled and tilted to your desired position, offers you absolute flexibility and optimal use. In addition to clear user options on the innovative touchpad your workflow is supported, no matter how your X-ray room is set up.

1. **Patented occlusal bite block**
   Position the patient with the patented occlusal bite block. The Orthophos intuitively determines the correct tilt of the head for optimal positioning and informs you through correlating symbols and colors how to adjust accordingly with just the press of the up or down arrow.

2. **Stable patient positioning**
   Stable patient positioning prevents motion blur. The motorized 3-point head fixation and sturdy handles give your patient the necessary support. The integrated temple width measurement automatically ensures a patient-specific orbit. Unnecessary downtime can be reduced by the automatic opening of the temple support for a successful X-ray outcome.

3. **Intuitive use**
   The EasyPad, which can be swiveled and tilted to your desired position, offers you absolute flexibility and optimal use. In addition to clear user options on the innovative touchpad your workflow is supported, no matter how your X-ray room is set up.
With a selection of over 30 colors, the Ambient Light of the Orthophos SL creates a pleasant atmosphere for your patient and blends in perfectly with your modern practice look.

Everything for your patient

The Orthophos family is designed according to the ALARA principle to allow the best image at the lowest necessary dose. All programs and capture parameters are tailored to the specific diagnostic tasks and offer you more diagnostic options and a particularly fast capture procedure.

On the Orthophos positioning tools:

“Our whole team gets along very well with the positioning. The many useful features such as automatic light localizers, luminous height adjustment buttons and the intuitive program selection allow us to work efficiently – and with very good image quality. Combined with the Sidexis 4 software, the Orthophos gives us absolute confidence in the findings.”

PD Dr. Dr. Lutz Ritter, Maxillofacial Surgery, Hennef
Modern, intuitive design
Sidexis 4 offers a completely new, updated look. Beyond the impressive esthetics, the new software also boasts an intuitive operating approach and clear design. The new timeline function also offers you a clear diagnosis and treatment history of your patients.

Integrated Workflows
Sidexis 4 can be easily integrated into your practice and intuitively operated without a lot of training. Beyond that, you’re prepared for the future: Sidexis 4 also offers expansion possibilities beyond the image field.

Seamless 2D/3D
With Sidexis 4, you can view 2D and 3D data simultaneously and side by side without switching between programs. This saves you valuable time and cross-comparisons giving you confidence in the diagnosis and treatment.

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 and make the iPad a comfortable advisory tool.

Sidexis 4 software
Whether 2D or 3D - brilliant images are only visible in the corresponding software. The modern and highly intuitive imaging software, Sidexis 4, supports clear diagnoses. With its award-winning user interface, it promotes an accessible workspace and clear navigation, saving valuable practice time. The clear platform also creates a basis for optimal patient communication, increasing comfort and understanding – a strong foundation for trust.

Integrated Workflows
Sidexis 4 can be easily integrated into your practice and intuitively operated without a lot of training. Beyond that, you’re prepared for the future: Sidexis 4 also offers expansion possibilities beyond the image field.

Seamless 2D/3D
With Sidexis 4, you can view 2D and 3D data simultaneously and side by side without switching between programs. This saves you valuable time and cross-comparisons giving you confidence in the diagnosis and treatment.

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 and make the iPad a comfortable advisory tool.
Which Orthophos is best for you?

Frequency and method of application, specialization, price and personal preferences – every dental practice has different requirements when it comes to choosing an X-ray unit. Here is a quick overview of the new Orthophos family.

Orthophos E

- **Unit variants**
  - Orthophos E 2D
  - Optional Ceph, left

- **Patient positioning**
  - Manual

- **Panoramic technology**
  - CsI sensor

The solid entry-level unit for price-conscious practices – and a smooth entrance into the world of digital imaging.

Orthophos S

- **Unit variants**
  - Orthophos S 2D
  - Orthophos S 3D
  - Optional Ceph, left or right
  - 3D-FoV ø 5x5,5 - ø 11x10

- **Patient positioning**
  - Automatic

- **Panoramic technology**
  - CsI Plus sensor
  - Autofocus

The reliable all-rounder with a comprehensive performance spectrum in 2D and 3D – optimized for everyday tasks in the field.

Orthophos SL

- **Unit variants**
  - Orthophos SL 2D
  - Orthophos SL 3D
  - Optional Ceph, left or right
  - 3D-FoV ø 5x5,5 - ø 11x10

- **Patient positioning**
  - Automatic

- **Panoramic technology**
  - DCS sensor
  - Autofocus
  - + DCS
  - + Ambient Light

The high-end model with the best image quality for practices with a grasp of the latest technologies – and for those who simply want more.

Which Orthophos is best for you?

Frequency and method of application, specialization, price and personal preferences – every dental practice has different requirements when it comes to choosing an X-ray unit. Here is a quick overview of the new Orthophos family.
Orthophos SL
2D/3D imaging system

The premium 2D/3D high-end unit for practices with a keen understanding of the latest technologies and for those who simply want more. The integrated Direct Conversion Sensor (DCS) completely redefines the standard of panoramic imaging – delivering unique sharpness. The namesake, the Sharp Layer technology, provides autofocused panoramic images, even in difficult cases. The Orthophos SL guarantees maximum ease of use through automatic positioning, intuitive operation with the EasyPad and an individually adjustable ambient light for an exclusive look and feel.

For all those who want even more

Services and Functions

1. Unique DCS sensor
   - For outstanding images with the highest quality

2. Sharp layer technology
   - For presentation in reliable sharpness, and the possibility for subsequent object focusing

3. Low Dose and HD function
   - 3D imaging in the dose range of 2D X-ray, HD images with up to 80 μm resolution

4. Autopositioning with occlusal bite block and EasyPad
   - For optimally positioned images and easy reproducibility at any time

5. Comprehensive panoramic and cephalometric programs
   - For bitewing, sinus or cephal images, left or right cephal arms are optional and can be retrofitted at any time

6. Safe and proven patient positioning
   - With motorized temple and forehead support, automatic temple width measurement, light localizers and sturdy handles

7. Coordinated volume sizes
   - From ø 5 cm x 5.5 cm to ø 11 cm x 10 cm

8. Ambient Light
   - Over 30 colors options a pleasant atmosphere

Outstanding image quality thanks to the DCS sensor and Sharp Layer technology.
Orthophos S
2D/3D imaging system

The high-quality 2D/3D X-ray unit with a comprehensive range of services for every practice. Whether as a pure 2D device or including a 3D module – the Orthophos S is a reliable partner and optimized for daily practice tasks. Thanks to the CsI Plus sensor with autofocus function, you are assured sharp images every time, even in anatomically difficult cases and the patented occlusal bite block positions patients automatically. For use in orthodontics, the Orthophos S is also available with an optional ceph arm. And because future-proofing is a priority at Dentsply Sirona, ceph arm and 3D can be retrofitted at any time.

Optimized for everyday tasks in the practice

Services and Functions

1. **2D CsI Plus sensor with autofocus function**
   For sharp, autofocused images even in anatomically difficult cases

2. **Coordinated volume sizes**
   From a 5 cm x 5.5 cm to a 11 cm x 10 cm

3. **Low Dose and HD function**
   3D imaging in the dose range of a 2D X-ray, HD images with up to 80 µm resolution

4. **Patented occlusal bite block for automatic positioning**
   Maximum consistency and reproducibility, thanks to automatic patient positioning

5. **Ceph arm on the left or right**
   For ceph images, can be ordered as an option or can be retrofitted at any time

6. **Safe and proven patient positioning**
   With motorized temple and forehead support, automatic temple width measurement, light localizers and sturdy handles

Sharp images thanks to the CsI Plus sensor and autofocus
Orthophos E
2D imaging system

The solid 2D x-ray unit for cost-conscious practices. The entry-level device provides a smooth entrance into the world of digital imaging through reliable diagnostics, thanks to CsI sensor technology and straightforward use. The cephalometric option also makes the Orthophos E a reliable partner for orthodontics. Enrich your practice with a wide range of services that are only possible through digital imaging.

For a smooth entrance into digital imaging

Services and Functions

1. 2D CsI sensor
   For an accurate diagnosis, thanks to reliable image quality

2. Important 2D programs
   For basic diagnostics in 2D

3. Safe and proven patient positioning
   With motorized temple and forehead support, automatic temple width measurement, light localisers and sturdy handles

4. Ceph arm (left)
   For ceph images, can be ordered or retrofitted at any time

5. MultiPad control panel
   For clear and thoughtful operation

Reliable image quality thanks to the CsI sensor
Experience makes it clear: Thousands of Orthophas units and software solutions have already been installed in practices around the world. They convince their users with good, German quality standards, their proverbial reliability and their ease of use.

The good feeling of having made the right decision: The well thought-out combination of the highest quality, innovation and genuine pioneering spirit noticeably improves the reliability of diagnosis – and offers solutions that are also able to cope with the demands of tomorrow with certainty.
## The Orthophos family: Technical properties overview

<table>
<thead>
<tr>
<th>Performance features</th>
<th>Orthophos E 2D</th>
<th>Orthophos S 2D</th>
<th>Orthophos SL 2D</th>
<th>Orthophos S 3D</th>
<th>Orthophos SL 3D</th>
</tr>
</thead>
<tbody>
<tr>
<td>X-ray generator</td>
<td>60-90 kV, 3-16 mA</td>
<td>60-90 kV, 3-16 mA</td>
<td>60-90 kV, 3-16 mA</td>
<td>60-90 kV, 3-16 mA</td>
<td>60-90 kV, 3-16 mA</td>
</tr>
<tr>
<td>Panoramic exposure time</td>
<td>P1 14.2 s max.</td>
<td>P1: max 14.2 s Quickshot: max 9.1 s</td>
<td>P1: max 14.2 s Quickshot: max 9.1 s</td>
<td>P1: max 14.2 s Quickshot: max 9.1 s</td>
<td>P1: max 14.2 s Quickshot: max 9.1 s</td>
</tr>
<tr>
<td>Radiation time Ceph</td>
<td>Standard 9.4 s Quickshot 4.7 s</td>
<td>Standard 9.4 s Quickshot 4.7 s</td>
<td>Standard 9.4 s Quickshot 4.7 s</td>
<td>Standard 9.4 s Quickshot 4.7 s</td>
<td>Standard 9.4 s Quickshot 4.7 s</td>
</tr>
<tr>
<td>User interface</td>
<td>MultiPad</td>
<td>EasyPad</td>
<td>EasyPad</td>
<td>EasyPad</td>
<td>EasyPad</td>
</tr>
<tr>
<td>Patient positioning</td>
<td>manual</td>
<td>automatic (occlusal bite block)</td>
<td>automatic (occlusal bite block)</td>
<td>automatic (occlusal bite block)</td>
<td>automatic (occlusal bite block)</td>
</tr>
<tr>
<td>Panorama technology</td>
<td>Csi</td>
<td>Csi Plus</td>
<td>DCS</td>
<td>Csi Plus</td>
<td>DCS</td>
</tr>
<tr>
<td>Autofocus</td>
<td>-</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>Ceph arm (optional)</td>
<td>left</td>
<td>left or right</td>
<td>left or right</td>
<td>left or right</td>
<td>left or right</td>
</tr>
<tr>
<td>Ceph unit with 2 sensors</td>
<td>optional</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>Quickshot</td>
<td>-</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>Fields of View</td>
<td>-</td>
<td>upgradeable</td>
<td>upgradeable</td>
<td>upgradeable</td>
<td>upgradeable</td>
</tr>
<tr>
<td>3D Low Dose</td>
<td>-</td>
<td>upgradeable</td>
<td>upgradeable</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>HD mode</td>
<td>-</td>
<td>upgradeable</td>
<td>upgradeable</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>Base</td>
<td>optional</td>
<td>optional</td>
<td>optional</td>
<td>optional</td>
<td>optional</td>
</tr>
<tr>
<td>Wheelchair accessible</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>Remote control</td>
<td>optional</td>
<td>optional</td>
<td>optional</td>
<td>optional</td>
<td>optional</td>
</tr>
<tr>
<td>Ambient Light</td>
<td>-</td>
<td>yes</td>
<td>-</td>
<td>yes</td>
<td>-</td>
</tr>
</tbody>
</table>

### Recommended room dimensions:
- Orthophos: space required 1,280 mm x 1,411 mm
- Orthophos with cephalometric side arm: space required 2,155 mm x 1,411 mm

All further measurements you will find in the according installation requirements.
The image spectrum of the Orthophos family

Panorama

- P1 orthoradial radiation
- P2 orthoradial radiation
- P3 orthopantomography, beam field reduced in height and length

TMJ

- Standard exposure
- With magnification 1.25
- With artifact reduction

Sinus

- With open and closed occlusion, with a slice position

Examples of possible applications in your practice

- Upper jaw, lower jaw, Left, Right, Individual quadrants
- Optimal panning:
  - Standard exposure
  - Constant magnification 1.25
  - With artifact reduction

Requirements for image acquisition computer

<table>
<thead>
<tr>
<th>Orthophos</th>
<th>S 3D / SL 3D</th>
<th>S 2D / SL 2D</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating System</td>
<td>Windows 7 Professional (32 bit)</td>
<td>Windows 8 Professional (64 bit)</td>
<td>Windows 10 Professional (64 bit)</td>
</tr>
<tr>
<td>CPU</td>
<td>≥ 2.3 GHz QuadCore with SSE3 support (Intel &gt; i7-3xxx or similar)</td>
<td>≥ 2.3 GHz QuadCore with SSE3 support (Intel &gt; i7-3xxx or similar)</td>
<td>1.6 GHz QuadCore with SSE3 support (Intel &gt; i7-3xxx or similar)</td>
</tr>
<tr>
<td>RAM</td>
<td>≥ 16 GB</td>
<td>≥ 8 GB</td>
<td>≥ 4 GB</td>
</tr>
<tr>
<td>Hard drive</td>
<td>&gt; 1 TB of free hard drive capacity</td>
<td>≥ 8 GB</td>
<td>≥ 4 GB</td>
</tr>
<tr>
<td>Graphics card</td>
<td>DirectX 11 graphics card (2 GB of dedicated RAM) or the current graphic card drivers (a list of tested graphic adaptors can be found in the Dentsply Sirona retailer section)</td>
<td>DirectX 10 graphics card (1 GB of dedicated RAM or Intel Onboard graphic with current graphics driver)</td>
<td>DirectX 9.0c graphic card (512 MB of dedicated RAM or Intel Onboard Graphics with current graphic card drivers)</td>
</tr>
<tr>
<td>Screen resolution</td>
<td>Minimum 1280 x 1024 pixels</td>
<td>1600 x 1200 pixels recommended</td>
<td></td>
</tr>
</tbody>
</table>

Further information at www.sidexis.com/systemrequirements

System requirements for the used hardware may vary.

PC Requirements

Requirements for the Sidexis 4

<table>
<thead>
<tr>
<th>PC Workstation</th>
<th>Version-Date</th>
<th>Min. for 2D Station</th>
<th>Min. for 3D Station</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sidexis Server</td>
<td>30.2006.02 / Windows Server 2008 R2</td>
<td>Windows 7 SP1 (64bit) / Windows 10 Pro (64bit)</td>
<td>Windows 7 SP1 (64bit) / Windows 10 Pro (64bit)</td>
</tr>
<tr>
<td>Sidexis Server</td>
<td>30.2012.02 / Windows Server 2008 R2</td>
<td>Windows 7 SP1 (64bit) / Windows 10 Pro (64bit)</td>
<td>Windows 7 SP1 (64bit) / Windows 10 Pro (64bit)</td>
</tr>
<tr>
<td>Sidexis Server</td>
<td>30.2016.02 / Windows Server 2012 R2</td>
<td>Windows 7 SP1 (64bit) / Windows 10 Pro (64bit)</td>
<td>Windows 7 SP1 (64bit) / Windows 10 Pro (64bit)</td>
</tr>
<tr>
<td>CPU</td>
<td>≥ 2 GHz Processor with 64 bit (x64)</td>
<td>≥ 2 GHz DualCore</td>
<td>≥ 2.3 GHz QuadCore Processor with 64 bit (x64)</td>
</tr>
<tr>
<td>RAM</td>
<td>≥ 4 GB</td>
<td>≥ 4 GB</td>
<td>≥ 4 GB</td>
</tr>
<tr>
<td>Hard drive</td>
<td>&gt; 1 TB</td>
<td>≥ 1 TB</td>
<td>≥ 8 GB</td>
</tr>
<tr>
<td>Graphics memory**</td>
<td>≥ 1 GB</td>
<td>≥ 1 GB</td>
<td>≥ 1 GB</td>
</tr>
<tr>
<td>Driver</td>
<td>Direct 3D with WDDM 1.0 or higher driver</td>
<td>Direct 3D</td>
<td>Direct 3D with WDDM 1.0 or higher driver</td>
</tr>
<tr>
<td>Head drive</td>
<td>&gt; 1 TB</td>
<td>≥ 512 GB</td>
<td>≥ 512 GB</td>
</tr>
</tbody>
</table>

* Installation for 4 bit - reporting systems is only approved using Brückner.
** In that case the option box in the mouse parameters is 32 bit, in case of a Windows installation only "stable" graphic cards with a supported driver are approved. For more detailed information please check the readme-file for WDDM 1.0.

Further information at www.sidexis.com/systemrequirements