THE SIRONA 3D X-RAY FAMILY

FOR A NEW DIMENSION OF SUCCESS IN YOUR PRACTICE
GOOD REASONS FOR 3D.

With 3D x-rays, 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 Sirona 3D x-ray units provide for your practice. These benefits provide greater certainty when making difficult diagnoses and while exploring new options for implantology, endodontics, and orthodontics.

Thanks to the FaceScan on the GALILEOS® Comfort, 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 Sirona.
MORE INSIGHT. MORE POSSIBILITIES.

Your patients are candidates for 3D more often than you think.

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

3D CBCT from Sirona also helps you gain the confidence to place implants faster and more predictably. This is one way you can expand your range of services, enhance patient loyalty and satisfaction, and treat more patients in your own office with a broadened range of procedures.

WHEN DOES 3D PROVIDE MORE CERTAINTY?

<table>
<thead>
<tr>
<th>Areas</th>
<th>Cases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Implantology</td>
<td>e.g., recognizing case risks and limitations before performing a surgical procedure, performing implants with minimal invasive surgical conditions at the same time</td>
</tr>
<tr>
<td>Endodontics</td>
<td>e.g., detecting auxiliary and hard to find canals and tumors to the dentobuolar complex; depicting internal and external root resorption, preoperative diagnostics in the case of periradicular lesions, preoperative endodontic planning (e.g., before apicectomy)</td>
</tr>
<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, cheek 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>
</tr>
<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, special radioseoanatomical periradicular indications and extent of lesions, patient consultation, implantology, and minor oral surgical procedures</td>
</tr>
</tbody>
</table>

WHICH UNIT IS THE ONE FOR YOU?

<table>
<thead>
<tr>
<th>Unit</th>
<th>ORTHOPHOS® XG 3D</th>
<th>GALILEOS Comfort®</th>
</tr>
</thead>
<tbody>
<tr>
<td>General dentistry</td>
<td>✗</td>
<td>✗</td>
</tr>
<tr>
<td>Orthodontics</td>
<td>✗</td>
<td>✗</td>
</tr>
<tr>
<td>Endodontics</td>
<td>✗</td>
<td>✗</td>
</tr>
<tr>
<td>Implantology</td>
<td>✗</td>
<td>✗</td>
</tr>
<tr>
<td>Surgery</td>
<td>✗</td>
<td>✗</td>
</tr>
<tr>
<td>Radiology center</td>
<td>–</td>
<td>✗</td>
</tr>
<tr>
<td>ENT practice</td>
<td>–</td>
<td>✗</td>
</tr>
<tr>
<td>Airway/TMD</td>
<td>–</td>
<td>✗</td>
</tr>
</tbody>
</table>

● Available
WHAT DOES 3D FROM SIRONA OFFER?

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

1. BEST IMAGE QUALITY
   From the positioning of the patient to the completed 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 ORTHOPHOS® XG 3D and GALILEOS® Comfort PLUS.

2. 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.

3. 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, Sirona CRIT systems are also compatible with most third-party software for orthodontics, which makes processing 3D x-rays extremely simple.

OVERVIEW OF 3D UNITS

GALILEOS® Comfort PLUS
   Spherical volume of 15.4 cm, can be collimated to the upper jaw/lower jaw. Extended options via Ceph views, integrated FaceScan selectable HD mode option for the best image quality with GALILEOS Comfort PLUS.

ORTHOPHOS® XG 3D
   VOL 1: Cylindrical imaging volume of 8 cm Ø x 8 cm (height), can be collimated to the upper jaw/lower jaw, HD mode option with a voxel size of 160 µm.
   VOL 2: Cylindrical imaging volume of 5 cm Ø x 5.5 cm (height), can be collimated to the upper jaw/lower jaw, selectable HD mode option with a voxel size of 100 µm, ideal for endodontics.
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. (See pages 10-11).

MORE INFORMATION: sirona3D.com

PRECISE PLANNING
Implant planning with 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 three ways:

1. SICAT CLASSICGUIDE, SICAT OPTIGUIDE and CEREC® GUIDE
   - SICAT, a Sirona company, makes CLASSICGUIDE surgical guides for you based on radiographic templates and 3D x-ray data for standard and mucosal supported edentulous guides
   - To produce SICAT OPTIGUIDE surgical guides, SICAT requires an ORTHOPHOS® XG 3D or GALILEOS® CBCT scan and an optical impression with CEREC®—no additional expense with models and radiographic guides for your practice due to the completely digital workflow
   - Alternatively, you can create CEREC® GUIDE surgical guides economically and quickly directly in your practice with CEREC®

SICAT CLASSICGUIDE, SICAT OPTIGUIDE and CEREC® GUIDE
   - SICAT CLASSICGUIDE Edentulous
   - SICAT CLASSICGUIDE Partially Edentulous
   - CEREC® GUIDE Immediate Placement Option
   - CEREC® GUIDE Complete Digital Workflow

CLASSICGUIDE
   - Edentulous
   - Partially Edentulous

OPTIGUIDE
   - Complete Digital Workflow

CEREC® GUIDE
   - Immediate Placement Option
WORKING TOGETHER TO CREATE A REVOLUTIONARY APPROACH TO IMPLANTOLOGY

The patented GCI process allows for true digital dentistry. The results are enhanced patient communication, improved case acceptance, and superior final outcomes – ONLY FROM SIRONA.

GALILEOS® + CEREC®

ADVANTAGES OF INTEGRATED IMPLANTOLOGY

1. SAFETY
2. TRUST
3. PROFITABILITY
4. EASE OF USE
5. PRACTICE MARKETING

GALILEOS® + CEREC®
SYNCHRONIZED PROSTHETIC AND IMPLANT PLANNING MEETS OPTIMUM DIAGNOSTICS AND CERTAINTY

- INCREASED PATIENT UNDERSTANDING AND TREATMENT ACCEPTANCE
- IMPROVED DIAGNOSTICS WITH CLEAR 3D X-RAY AND INTRA-ORAL SURFACE IMAGES
- SIMULTANEOUS PROSTHETIC AND SURGICAL PLANNING
- IMPROVED IMPLANT ACCURACY WITH CEREC AND SICAT SURGICAL GUIDES
- ENHANCED SURGICAL EASE, SPEED, AND OUTCOMES
- CEREC DIGITAL IMPRESSION CREATES A COMPREHENSIVE PATIENT RECORD
- MAXIMUM PATIENT CONVENIENCE WITH MINIMAL OFFICE VISITS
- THE ONLY CBCT COMPANY TO MANUFACTURE SURGICAL GUIDES

>112K
# of implants placed with surgical guides from Sirona

>250
Scientific studies documenting clinical safety

>28 MILLION
Restorations placed

Scientific studies documenting clinical safety

The patented GCI process allows for true digital dentistry. The results are enhanced patient communication, improved case acceptance, and superior final outcomes – ONLY FROM SIRONA.
CEREC® INTEGRATION

X-ray and CAD/CAM combined: With the unique process of integrated implantology, the necessary appointments for placing the implant and the final restoration are reduced.

Thanks to the CEREC Integration, the entire implant process, starting with the planning and ending with the manufacture of highly precise abutments and crowns, will remain in your practice. This gives you complete control over the process from start to finish, providing you with highly precise and esthetic results that save time and money. Your patients will appreciate the time savings and recommend your practice to others. And now, you can order surgical guides from SICAT with the click of the mouse, or create them yourself with CEREC.

CEREC® GUIDE

Single-visit implantology is now a reality with CEREC® GUIDE and Sirona 3D technology.
- Makes implantology quick, precise, and possible in a single visit.

FIRST SESSION
SCAN/PLAN
- Take an optical impression of the bite with CEREC® and plan the prosthetic restoration using the CEREC® software.
- With a GALILEOS® or ORTHOPHOS® XS 3D scan, you diagnose the bone structure and integrate the prosthetic recommendation into the x-ray volume and plan the implant simultaneously according to the surgical and prosthetic conditions.
- Order the surgical guide in the software and transmit the planning data to SICAT (in the case of the SICAT OPTIGUIDE process).

SECOND SESSION
PLACE
- In the second session, you place the implant using the surgical guide.
- In the case of immediate loading, restore it directly with a CEREC® temporary prosthesis.
- If necessary, you can also create a patient-specific, customized abutment with CEREC® in this session and incorporate it.

THIRD SESSION
RESTORE
- With immediately loaded implants, the temporary prosthesis is replaced by the final prosthesis.
- With traditionally placed implants—after completion of the healing phase—you provide the implant with a temporary or final prosthesis (with CEREC) in this session.

Simultaneous prosthetic and surgical planning
The GALILEOS Implant software unites the prosthetic proposal from the CEREC software with the 3D x-ray data. This way you will be able to take into consideration both function and esthetics during implant planning.
The high-end CBCT unit with HD mode, large field-of-view and packages that include GALILEOS FaceScan and SICAT Function, offers 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.

**INTEGRATED FACESCAN**

GALILEOS® COMFORT PLUS HD

**IMAGE QUALITY**

The first integrated digital 3D solution to provide a simple workflow diagnosis and treatment of temporomandibular joint dysfunctions (TMD).

**SICAT FUNCTION**

The first integrated digital 3D solution to provide a simple workflow diagnosis and treatment of temporomandibular joint dysfunctions (TMD).

**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 DOLPHIN SOFTWARE**

The Dolphin 3D imaging software is a powerful tool for orthodontists that makes processing 3D data from any 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.

**SLEEP APNEA**

GALILEOS 3D scans can also be used for visualization of the airways. With Dolphin 3D, you can analyze the airway by drawing a border around your selected portion of the volumetric scan, the program will automatically fill in and display all the airway space within that border, then report back telling you the volume of airway space in cubic millimeters. It will also locate, display, and measure, in square millimeters, the most constricted spot of that airway. A fast 14 second 3D scan from GALILEOS provides 3D data for your diagnostic needs.

**GALILEOS COMFORT PLUS**

<table>
<thead>
<tr>
<th>GALILEOS Comfort Plus</th>
<th>Implant</th>
<th>Function</th>
<th>FaceScan</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elite Package:</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>GALILEOS FaceScan, SICAT Function, RCU, GALILEOS Implant</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Function Package:</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>SICAT Function, RCU, GALILEOS Implant</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Standard Package:</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RCU, GALILEOS Implant</td>
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</tr>
</tbody>
</table>

With its large, spherical volume of 16.4 cm in diameter, GALILEOS Comfort Plus captures the entire jaw, including the jaw joints, and all important anatomical structures of the craniofacial region.

**INTEGRATED DOLPHIN CEPHALOMETRIC**

With its large, spherical volume of 16.4 cm in diameter, GALILEOS Comfort Plus captures the entire jaw, including the jaw joints, and all important anatomical structures of the craniofacial region.

**DOLPHIN INTEGRATION**

With its large, spherical volume of 16.4 cm in diameter, GALILEOS Comfort Plus captures the entire jaw, including the jaw joints, and all important anatomical structures of the craniofacial region.

**INTEGRATED CEPHALOMETRIC**

With its large, spherical volume of 16.4 cm in diameter, GALILEOS Comfort Plus captures the entire jaw, including the jaw joints, and all important anatomical structures of the craniofacial region.
For the first time GALILEOS provides true motion in Cone Beam with SICAT Function – only from Sirona 3D.

SICAT Function is a revolutionary software solution with an integrated 3D workflow. With GALILEOS and SICAT Function, you can use the patient’s 3D Cone Beam scan with their actual recorded jaw motion. This allows for the visualization and a movement-oriented treatment plan. The recorded jaw movement can be visualized and reproduced at any location in the dentition or mandible.

- Real condyle-fossa relationship during jaw movement
- Anatomically correct trajectory
- Visualize the specific positioning of the trajectory in 3D, as well as a comparison to conventionally used axial points
- Evaluate the occlusion based on the integrated optical surface scans

NEW PERSPECTIVES FOR TMD DIAGNOSTICS

Thanks to the highly precise recording of all degrees of freedom and movements of the mandible with the SICAT JMT+ (Jaw Motion Tracker), you can transfer, visualize, and diagnose anatomically correct jaw movement within the 3D space.

The data merged in SICAT Function enables patient-specific three-dimensional presentation of the jaw in motion. Depending on the practitioner’s preference, recorded traces of movement can be visualized at any specific point of the mandible.

The subsequent treatment plan can be implemented with a Michigan treatment appliance made by SICAT. The appliance is fabricated according to the 3D JMT+ and optical data and for the first time considers the patient’s individual jaw movement.

SICAT JMT+:
Supported by the highly precise acquisition of all degrees of freedom and movements of the lower jaw with the SICAT JMT+, the path is clear for the transfer, visualization, and diagnosis of real patient movement within the 3D volume.

SICAT JMT+ includes a facebow with integrated receiver modules as well as a perfectly balanced mandibular sensor. The mandibular sensor is extremely lightweight for enhanced patient comfort.

TRUE MOTION IN CONE BEAM – ONLY FROM SIRONA 3D

The data merged in SICAT Function enables patient-specific three-dimensional presentation of the jaw in motion. Depending on the practitioner’s preference, recorded traces of movement can be visualized at any specific point of the mandible.

The subsequent treatment plan can be implemented with a Michigan treatment appliance made by SICAT. The appliance is fabricated according to the 3D JMT+ and optical data and for the first time considers the patient’s individual jaw movement.
SIDEXIS 4
SOFTWARE
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.

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 Sirona workflow and the images are assigned directly to the respective patient file. This speeds up your work in the practice.

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, these are shown together in a lightbox whether they are 2D, 3D, or intraoral. 3D can also be used interactively in this view.

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.

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.

SIDEXIS 4: THE IDEAL SOLUTION

The principle of SIDEXIS 4 is to make all visual data available at a glance. Switching to other programs is minimized so you have the optimum basis for diagnosis.

3D Examination: easy diagnosis of 3D scans in SIDEXIS 4
Timeline: entire treatment history of a patient at one glance
SIDEXIS 4 SOFTWARE: OPTIMUM WORKFLOW WITH A CLEAR STRUCTURE

Fully integrated treatment planning

SIDEXIS 4 is the integrated solution that offers efficient clinical workflow and enhanced patient communication for better treatment acceptance and outcome. The modern and intuitive design offers elegant functionality and allows you to implement your clinical workflow with an easy-to-use interface.

BETTER DIAGNOSIS
SIDEXIS 4 allows you to access and display all of your patient images on a single screen for a faster and easier diagnosis. All diagnostic imaging tools are also directly accessible via SIDEXIS 4, utilizing an intuitive, icon-driven menu system. The software follows a logical workflow pattern to efficiently and effectively guide the clinician through each step in the treatment process.

UNIVERSAL IMAGE COMPATIBILITY
SIDEXIS 4 functions as a central hub for the integration of any and all diagnostic imaging data obtained by the dental team. The software is open to all major image formats, readily accepting images obtained by intraoral, panoramic and cephalometric x-rays, 2D and 3D CBCT systems, intraoral cameras, FaceScanner, and more.

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

Acquisition even of complete intra-oral series becomes very intuitive due to the workflow guidance provided by SIDEXIS 4.

Utility of system requirements

Server PC

<table>
<thead>
<tr>
<th>Minimum requirements</th>
<th>Recommended requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating system</td>
<td></td>
</tr>
<tr>
<td>Windows 7 Professional • Ultimate [64 bit]*</td>
<td>Windows Server 2008 [64 bit]</td>
</tr>
<tr>
<td>Windows 8 Pro [64 bit]*</td>
<td>Windows Server 2008 R2 [64 bit]</td>
</tr>
<tr>
<td>Windows 8.1 Pro [64 bit]*</td>
<td>Windows Server 2012 [64 bit]</td>
</tr>
<tr>
<td></td>
<td>Windows Server 2012 R2 [64 bit]</td>
</tr>
<tr>
<td>RAM ≥4GB</td>
<td>≥8GB</td>
</tr>
<tr>
<td>CPU ≥2 GHz DualCore</td>
<td>≥ 2.3 GHz QuadCore processor with 64 bit (x64)</td>
</tr>
<tr>
<td>Hard disk &gt;65GB</td>
<td>&gt;1TB</td>
</tr>
</tbody>
</table>

Workstation PC

<table>
<thead>
<tr>
<th>Recommended for 2D</th>
<th>Recommended for 3D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating system</td>
<td></td>
</tr>
<tr>
<td>Windows 7 Professional, Ultimate [32 or 64 bit], also under Bootcamp</td>
<td>Windows 7 Professional, Ultimate [64 bit], also under Bootcamp</td>
</tr>
<tr>
<td>Windows 8 Pro [64 bit] • Windows 8.1 Pro [64 bit]</td>
<td>Windows 8 Pro [64 bit]</td>
</tr>
<tr>
<td>Windows 8.1 Pro [64 bit]</td>
<td>Windows 8.1 Pro [64 bit]</td>
</tr>
<tr>
<td>RAM ≥4GB</td>
<td>≥8GB</td>
</tr>
<tr>
<td>CPU ≥2 GHz DualCore</td>
<td>≥ 2.3 GHz QuadCore processor with 64 bit (x64)</td>
</tr>
<tr>
<td>Graphics card** ≥512MB</td>
<td>≥ 1GB</td>
</tr>
<tr>
<td>DirectX DirectX 9.0c</td>
<td>DirectX 10 with WDDM 1.0 or higher driver</td>
</tr>
<tr>
<td>Hard disk ≥5GB</td>
<td>≥8GB</td>
</tr>
</tbody>
</table>

*System requirements of the hardware used may vary. More information at www.sirona.com/SIDEXIS4-system_requirements
**The installation on a domain controller is not cleared.

Side-by-side display of multiple images taken over time offers objective anatomical comparisons.
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:

- Implants
- Surgical procedures
- 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
- OPTIGUIDE and CEREC® Guide for simplified integrated implantology

FOR STANDARD 2D IMAGES, ORTHOPHOS® XG 3D OFFERS:

- The most comprehensive panoramic and cephalometric 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
- Ceph option can be added to left or right side of the unit

HD IMAGE QUALITY

COMPARISON OF STANDARD AND HD MODE

<table>
<thead>
<tr>
<th>Mode</th>
<th>VOL 1 (8 cm x 8 cm height)</th>
<th>VOL 2 (5 cm x 5.5 cm height)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard mode</td>
<td>200 individual images</td>
<td>200 individual images</td>
</tr>
<tr>
<td></td>
<td>Pulsed radiation</td>
<td>Pulsed radiation</td>
</tr>
<tr>
<td></td>
<td>Voxel size 160 µm</td>
<td>Voxel size 160 µm</td>
</tr>
<tr>
<td>HD mode</td>
<td>500 individual images</td>
<td>500 individual images</td>
</tr>
<tr>
<td></td>
<td>Continuous radiation</td>
<td>Continuous radiation</td>
</tr>
<tr>
<td></td>
<td>Voxel size 160 µm</td>
<td>Voxel size 100 µm</td>
</tr>
</tbody>
</table>

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

ENDO HD FOR ORTHOPHOS® XG 3D HD VOLUMETRIC IMAGES FOR ACCURATE AND PRECISE ENDOODONTIC 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
AUTOMATIC PATIENT POSITIONING FOR ORTHOPHOS XG 3D

AUTO POSITIONER ENSURES OPTIMAL JAW ALIGNMENT WITHIN THE IMAGE LAYER
The occlusal bite block measures the inclination of the occlusal plane. The direction of travel is displayed and the unit stops automatically at the desired position, thus preventing incorrect positioning and reducing possible, unnecessary retakes.

- As with all Sirona panoramic equipment, only two positioning points need to be adjusted. The mid-sagittal plane is aligned quickly using two laser positioning lines and the dark, scribed line on the bite block.
- The patient’s front teeth are placed edge-on-edge in the grooved bite block, establishing the correct positioning point without the need of a third light line that is subjective to random operator interpretation.
- The ORTHOPHOS® XG 3D unit automatically adapts the orbital curve to the patient’s jaw size via the temple support so the molars and the anterior teeth are in the range of optimal focus.
- In special cases, one-step fine-tuning of the anterior jaw shape is possible.

Lowest dose  Automatic patient positioning  Automatic sensor change  Precise positioning  Comfortable stabilization  Ease of operation

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

- **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.*

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

**HDX-Ray Scans**
- Scan with HiDef sensor
- Scan with HiDef sensor and processing with ASTRA

**ASTRA**
- Scan with HiDef sensor and processing with ASTRA
- Detailed view with ASTRA

**High contrast and improved visualization of details**
- High edge sharpness without black margins around metal fillings
- High contrast and improved visualization of details

**HD Scan**
- HD imaging with the HiDef sensor
- Detailed view with ASTRA
**Technical Data**

| Field of view | 15.4 cm Spherical imaging volume | 8 cm x 8 cm height | 5 cm x 5 cm height |
| Resolution in 3D: isotropic voxel edge size | 0.25/0.125 mm | 0.16 mm; 0.1 mm in HD mode |
| Scan time/exposure time | 14 s/2–5 s | 2–5 s; 14 s in HD mode |
| X-ray generator | 98 kV | 60–90 kV |
| Effective dosage (ICRP 2007) | 27–166 μSv (Ludlow) | 13–166 μSv (Ludlow) |
| Space requirements (depth x width x height) | 61” x 63” x 89” | 58” x 53” x 89” |
| Min. door width | At least 26” for installation | At least 26” for installation |
| Technical specifications | X-ray unit approx. 308 lbs | X-ray unit approx. 243 lbs |
| User interface | EasyPad | EasyPad |
| Patient positioning | Standing/seated, chin rest/bite block, forehead support and head fixation device | Standing/seated, chin rest/bite block, occlusal bite block for automatic patient positioning for 2D panoramic radiography |
| Wheelchair accessible | Yes | Yes |
| Software | SIDERIS 4 – Image processing and management software | SIDERIS 4 – Image processing and management software |
| | GALILEOS® Implant – implant planning software | GALILEOS® Implant – implant planning software (optional) |
| | CEREC integration – Simultaneous prosthetic and surgical planning | CEREC integration – Simultaneous prosthetic and surgical planning (optional) |
| Views | Ceph lat., Ceph p.a./a.p., freely tiltable 2D slices, PAN with 3D slice navigation, TSA, LSA, axial, sagittal, coronal, 3D model, implant-oriented, high resolution detail volumes | Ceph lat., Ceph p.a./a.p., freely tiltable 2D slices, PAN with 3D slice navigation, TSA, LSA, axial, sagittal, coronal, 3D model, implant-oriented, high resolution detail volumes |
| Packages | Elite Function Standard | Pan Pan/Ceph |
| Retrofit options | GALILEOS FaceScan SICAT Function | Cephalometric x-ray (optional), also available as a pure 2D unit with 3D upgrade option |
| Service Agreement | 3 Years | 2 Years |
| 2 Day Clinical Training | 2 Clinicians | 1 Clinician |

**2D Programs with Orthophos® XG 3D**

- **Panoramic**
  - P1 orthoradial radiation
  - P40 pediatric panorama, beam field reduced in height and length
  - With a constant magnification of 1.25
  - Modified focal path for the constant magnification program (PIC) is also ideal for large patients
  - With artifact reduction

- **Sinus**
  - S1 maxillary sinuses in one image
  - S2 maxillary sinuses in two images

- **Temporomandibular joint**
  - TM1 lateral
  - TM2 axial
  - Adjustable radiation angle
  - With open and closed occlusion
  - With a slice position

- **Multislice in posterior tooth region**
  - P12 thick slice in anterior tooth region
  - Optional panning U1, L1

- **Bitewing**
  - BW1
  - Optional panning right, left
  - Quickshot option for all PAN programs
  - Automatic adjustment of the rotation curve to the jaw width
  - Automatic positioning with occlusal bite block

- **Technical Overview**

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  - User interface: EasyPad
  - Patient positioning: Standing/seated, chin rest/bite block, forehead support and head fixation device
  - Wheelchair accessible: Yes
  - Software: SIDERIS 4 – Image processing and management software
  - Views: Ceph lat., Ceph p.a./a.p., freely tiltable 2D slices, PAN with 3D slice navigation, TSA, LSA, axial, sagittal, coronal, 3D model, implant-oriented, high resolution detail volumes
  - Packages: Elite Function Standard
  - Retrofit options: GALILEOS FaceScan SICAT Function
  - Service Agreement: 3 Years

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DIMENSIONS FOR GALILEOS® 3D

Designed to fit your workflow and your practice.

DIMENSIONS FOR ORTHOPHOS® XG 3D

Flexible x-ray imaging that accommodates any size practice.

SPACE REQUIREMENTS
The ORTHOPHOS® XG 3D requires a space of 50.4" x 55.6" (1280 x 1411 mm).

SPACE REQUIREMENTS WITH CEPH ARM
With the Ceph arm (mounted on the left or right), the space requirement increases to 84.8" x 55.6" (2155 x 1411 mm).

DIMENSIONS

PC CABINET (Optional)
Can be added to existing ORTHOPHOS® and GALILEOS® installations; No unit modifications necessary.

X-RAY CABINET (Optional)
Organize bite blocks, hygiene covers, service kit, user manual, support rods, and more.
SIRONA: THE DENTAL TECHNOLOGY LEADER

Sirona, the technology and innovation leader in dentistry, has served dentists worldwide for more than 130 years. Sirona develops, manufactures, and markets a complete line of dental products, including CAD/CAM restoration systems [CEREC], CBCT imaging systems [GALILEOS], extraoral imaging systems, digital intraoral imaging technology [SCHICK], dental treatment centers, and hand instruments.

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