Sirona – unique worldwide systems expertise in dental equipment products

Sirona develops and manufactures a comprehensive range of dental equipment, including CAD/CAM Systems for dental practices (CEREC) and laboratories (inLab), Instruments and Hygiene Systems, Treatment Centers and Imaging Systems. Sirona manufactures high technology products that guarantee ease of use and a high return on investment – for the good of your practice and for the benefit of your patients. In this way, you can approach every challenge you face with confidence.

Enjoy every day. With Sirona.

Individually adjustable for seated patients and wheelchairs

Stable base for freestanding mounting

Remote control with exposure parameter display

ORTHOPHOS XG 3D GALILEOS

ORTHOPHOS XG 3D Ceph

Digital volume tomography

For a new dimension of a practice’s success: The 3D unit family.

Sirona Dental Systems · E-mail: contact@sirona.com · www.sirona.com
The third dimension: “3D” visualization and treatment plan acceptance go hand-in-hand

Today’s patients demand the most advanced dental care. Three-dimensional images guide your patients to a better understanding of your diagnoses, increasing their trust in you and increasing treatment plan acceptance. With 3D from Sirona, you will also increase the clinical safety in the cases of difficult diagnoses and you will encounter new possibilities in implantology. Enjoy every day with Sirona.
The fourth dimension: The “4D” concept incorporates the value of time saved with workflow optimization.

Integrated solutions for the entire practice
SIDEXIS 3D software seamlessly integrates with practice management applications, DICOM environments, allowing access to your 3D images from any computer on your network.

GALAXIS then guide the user effectively through the 3D volume to expedite diagnoses even in difficult cases.

GALILEOS Implant allows you to achieve improved safety during implantation. Partner Galileos with CEREC, and the unique integrated Implantology procedure reduces appointments required, saving you and your patients money and time. Our strategically designed software solutions provide an efficient workflow and optimal support for all tasks associated with your daily practice routine. They also facilitate cooperation within the practice, as well as between radiological centers and the referring parties.

Work findings-oriented
From the GALAXIS 1.7 software version you can mark findings directly in the x-ray volume, save the screen contents with all settings and, if needed, call it up again. A very time and cost-effective solution for your practice!

Reporting without loss of time
With the REPORTER software you can quickly and easily create radiological reports that you can then print on film or paper, send as a digital viewer with findings or export in PDF or DICOM format.

Referrer concept
Do you want to build a dental radiology center with tools such as findings-oriented reports, DICOM volumes for various 3D software programs or the simple Wrap&Go Viewer, you will be able to meet different referrer requirements.
Sirona delivers excellence with every solution

Whether you are a specialist or a practice-based dentist, the Sirona 3D family offers a solution to meet your unique needs. Each option delivers the best image quality with the lowest dose, and an optimized workflow. As a premium provider with more than 100 years of x-ray experience, Sirona guarantees high-quality, long-lasting and reliable products.

Digital volume tomography

In a single scan, our 3D units capture 200 single exposures; our 3D software then reconstructs an x-ray volume in the best-possible ratio of dose and image quality.

Digital volume tomography

In a single scan, our 3D units capture 200 single exposures; our 3D software then reconstructs an x-ray volume in the best-possible ratio of dose and image quality.

Best image quality...

From the positioning of the patient to the completed image on screen, all phases of image capture are carefully synchronized to return the best possible result. Resolution and noise suppression ensure every detail is captured; and the metal artifact reduction captures interference-free images.

With the lowest dose...

Your patients can be assured they are receiving the lowest possible radiation dose, while still obtaining the best possible image for their dental health review and planning. Using state-of-the-art technology, Sirona’s image intensifier achieves this low dose even in large scan volumes. Dose can be reduced even further by using special programs in 2D, or reduction to a lower scan volume in 3D.

And an optimized workflow

The GALAXIS imaging software is specifically tailored to enhance the “4D” dental workflow. Time required to access information is reduced because findings are saved along with each panorama image (along with corresponding lateral, transversal and axial slices). Implant planning with GALILEOS Implant is so easy that you can perform the planning and consultation of the patient simultaneously. In connection with CEREC, you can plan prosthetically and surgically at the same time. Incorporate SICAT drilling templates, and your implant workflow is optimized, as well.
Many of your patients are candidates for 3D

More insight. More possibilities. 3D imaging reveals vital information such as bone structure and nerve canal location – enhancing clinical safety and enabling you to perform implants in your own practice.

<table>
<thead>
<tr>
<th>Indications</th>
<th>Implantology</th>
<th>Oral and maxillofacial surgery</th>
<th>Orthodontics</th>
<th>General dentistry</th>
</tr>
</thead>
<tbody>
<tr>
<td>Greater reliability with 3D in</td>
<td>3D visualization, bone scan</td>
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When does 3D pay off?

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<tr>
<th>Unit</th>
<th>3D APHOS 3D</th>
<th>ORTHOPHOS XG 3D</th>
<th>GALILEOS Compact</th>
<th>GALILEOS Universal hybrid unit for the general practice: with broad therapeutic approach, with the objective of implanting or broadening one implantological offer and with focus on endodontic treatment.</th>
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General dental practice ■ Implantological practice ■ Orthodontic practice ■ Oral and maxillofacial surgery ■ Surgery ■ Radiology center ■ ENT practice ■

■ highly recommended.  ■ well-suited.

Greater reliability with 3D in:

- Implantology: e.g. indicator for root augmentation, broken root canal
- Oral and maxillofacial surgery: e.g. displacement of teeth, trauma diagnostics, cysts, salivary ducts, orthodontic surgical procedures
- Orthodontics: e.g. displacement, impacted teeth, cephalometric analysis, root resorption, and stuff tips, jaws and palate
- General dentistry: e.g. orthodontic findings, as well as those that are difficult or impossible to have for X-rays, spiral tomography, pediatricstomatology, patients in orthodontics, endodontics, implantology, orthognathic surgery

Greater insight, more possibilities.

3D imaging reveals vital information such as bone structure and nerve canal location – enhancing clinical safety and enabling you to perform implants in your own practice.
Safe implants: a good diagnosis for your practice’s future!

For beginners and specialists.

With 3D from Sirona, implanting has become very easy. The GALILEOS Implant software guides even beginners efficiently through the planning process—in minutes. Thanks to the colored visualization of the nerve canal and the depiction of the bones in all dimensions, you can adapt the implant in an ideal manner to fit the patient’s anatomy. This ensures a high degree of safety and longevity of the implants, because unfavorable stress can be avoided by precise planning and implementation.

Precise planning
Implant planning with GALILEOS Implant is simple, accurate and saves time. Select the correct implant including standard abutment from the integrated implant database, and adjust it in all views to fit your needs.

Safe implementation
Easily obtain Sirona SICAT* drilling templates by sending the planning data, the scan guide and a model to SICAT*. You’ll receive an inexpensive and highly precise drilling template.

* www.SICAT.com, SICAT GmbH & Co. KG, Brunnenallee 6, 53177 Bonn, Tel.: +49 228 854697-0.
Maximum convenience: Only 3 sessions necessary for a perfect implant!

Sirona unites 3D imaging and CAD/CAM. Integrated Implantology with CEREC reduces the number of sessions necessary for the complete implant process, saving you and your patient time and money. When using CEREC in conjunction with GALILEOS or ORTHOPHOS XG 3D, the entire process, starting with the planning and ending with the manufacture of highly precise abutments and crowns, remains in your practice, ensuring highly precise, aesthetic and affordable results, quickly. Your patients will feel good about your practice and will recommend you to others. In the future you will even be able to design and mill drilling templates with CEREC.

Simultaneous prosthetic and surgical planning
The GALILEOS Implant software unites the prosthetic suggestion from the CEREC software with the 3D x-ray data. This way you will be able to take into consideration both, function as well as esthetics.

1st Session
- Using CEREC BlueCam, take a digital impression of the jaw and plan the prosthetics in the CEREC software.
- Using a GALILEOS or ORTHOPHOS XG 3D scan, diagnose the bones’ condition and integrate the prosthetic suggestion into the x-ray volume.
- Plan the implant and consult with the patient, send the optical impression and your plans to SICAT and order a drilling template*.

2nd Session
- During the second session, have already prepared and have readily available:
  - the drilling template (by SICAT)
  - the implant
  - if possible, the individual abutment created with CEREC and the provisional restoration made with CEREC
- The patient will come in for the implant procedure. With the help of the drilling template (in this example), insert an implant that is immediately loadable, screw in the abutment and cement the provisional restoration.

3rd Session
- The patient comes in for treatment. Create the final prosthesis.

With the help of the software imaging, your patients will understand the need for and the anticipated results of their proposed treatment, increasing the likelihood of treatment plan acceptance.

* shortened process possibly starting in the summer of 2011.
A point of view: What orthodontists need.

Displaced or impacted teeth? Root resorption? In the field of orthodontics, these and many more are cases in which you can see more and diagnose more quickly and precisely with 3D, and thus be more successful. As an orthodontist, you also need special 2D views, which two of our 3D units provide. Whether you decide on ORTHOPHOS XG 3D or GALILEOS Comfort is therefore not a question of opinion, but a question of your requirements. Either way, you will make a good choice when choosing one of these units.

ORTHOPHOS XG 3D: Diversity in 2D. More reliability with 3D.
The traditional cephalometric radiography function of the ORTHOPHOS XG 3D gives you lateral, symmetric (a. p. or a. p.) and cusp exposures for diagnosis. Expand these possibilities with the advantages of 3D x-ray imaging, in order to determine the exact spatial locations in cases, such as displaced teeth.

GALILEOS Comfort: New diagnostic dimensions with 3D.
For high-end orthodontics, GALILEOS Comfort is the unit of choice. The GALAXIS software displays various views simultaneously: classic panoramic/cephalometric views and diverse radiological views, greatly expanding your diagnostic capabilities.

SIDEXIS XG is compatible with common orthodontic analysis programs. With its optional cephal arm, ORTHOPHOS XG 3D provides all of the views important to an orthodontist.
ORTHOPHOS XG 3D: The most popular x-ray unit in the world. Now with 3D!

Optimized for everyday tasks in the dental practice.

With a perfectly adapted cylindrical 3D volume (8 cm diameter, 8 cm height), ORTHOPHOS XG 3D is perfectly adapted to fit typical practice needs. One scan captures the entire jaw, with a sufficient field-of-view, avoiding the increased radiation exposure caused by stitching several 3D x-ray images together. The captured volume is also small enough to diagnose time-efficiently. If an even smaller volume is sufficient, simply collimate the height and diameter to 5 cm*. In standard cases, the ORTHOPHOS XG 3D provides just the right x-ray image with comprehensive panoramic and cephalometric programs. Whenever you decide that you need to see more, the 3D module provides increased security.

2D programs

- Panoramic programs, optionally artifact-free
- Sinus programs
- Temporomandibular joint programs
- Thick-layer anterior tooth images
- Biting programs
- Multi-shot posterior tooth images

3D views

- Tiltable 2D slices
- Custom 3D slicing
- Pan, TSA, LSA, axial, sagittal, coronal, 3D-model
- Implant-oriented views, 1-Click OP reports

Ceph optional

- Symmetrical a.p., symmetrical a.p., lateral, coronal exposures
- Asymmetrical, image size adjustable 21 cm x 18 cm W or 23 cm x 28 cm W
- Special projections, e.g. half-axial, Clementschitsch
- Quickshot mode for shortened acquisition time
- Adjustable couch collimation for dose reduction
- Adjustable image size
- Orthodontic image series with reduced cooling periods

Optimized sensor change

Don’t risk dropping a 3D sensor during a manual change. Switch from 2D to 3D at the press of a button, thus saving time, preventing mistakes and eliminating repeat imaging.

Easy positioning

In 2D imaging, the occlusal bite block measures the inclination of the occlusal plane, and the unit automatically stops in the desired position, guaranteeing correct imaging.

Intuitive operation

Easy selection of the imaging region (central, posterior tooth or temporomandibular joint volume) and optional, collimation and dose level using the EasyPad.

*available at the end of 2011.
GALILEOS Compact: A tailored solution with more possibilities.

Not only suited for implantologists.

GALILEOS Compact's ellipsoid field of view (15 cm diameter by 12 cm height) includes the complete dentition, as well as the ascending rami and the sinus area. The unit is made to meet the requirements in the area of implantology. In addition, GALILEOS Compact is suited for general practices that already own a modern OPG unit, but would still like to benefit from the advantages of 3D diagnostics with low dose at great volume. GALILEOS Compact can be upgraded to a GALILEOS Comfort at any time.

If the large volume is not needed in some cases, simply collimate the field of view to the upper jaw or the lower jaw, a standard feature on all our 3D units. Cropped volumes save time during the diagnostic process and reduce the patient’s exposure to radiation.

Programs
- High contrast option for optimized hard tissue imaging
- VOI

3D views
- Tiltable 2D slices
- Custom 3D view
- TiO, USA, AASAL, SAGITTAL, CORONAL, 3D MODEL
- Implant-oriented view, 1-Click OP reports

Ellipsoid imaging volume (12 x 15 x 15) cm³

Field-of-view collimation on the upper jaw or lower jaw

Easy navigation through all 3D slices in GALAXIS

Perfect patient positioning with bite block, forehead support and laser light localizer.
GALILEOS Comfort: High-end imaging, down to the smallest detail.

Superior diagnostics for all indications. With just one scan.

With its large, 15 cm spherical volume, GALILEOS Comfort not only captures the entire jaw, including the temporomandibular joints, but also the entire craniofacial anatomy. GALILEOS Comfort is therefore perfectly suited for the practice specialized in oral surgery, practices with 3D-oriented orthodontics, ENT practices, as well as for radiologists. Compared to GALILEOS Compact, expand your imaging system with cephalometric programs, as well as high-resolution volume reconstructions. The optionally integrable FaceScanner also allows for precise analysis of the soft-tissue facial surface and provides new possibilities in consultation and patient-education.

Programs
- High contrast option for optimized hard tissue imaging
- VO1
- VO2

3D views
- Partially navigable 2D layers
- freely movable 3D slices
- Pan, T.A.I, L.A.I, axial, sagittal, coronal, 3D model
- 1-click implant reporting
- Detail volume with high resolution
- CEPH lat., CEPH a. p.

Spherical imaging volume (15 x 15 x 15) cm³

Integrated FaceScanner for soft-tissue analysis.

Ergonomic operation with the integrated touch panel.

Precise positioning with patient immobilization.
Integrated FaceScanner: Come face-to-face with perfect soft-tissue imaging!

With GALILEOS integrated FaceScanner you can now collect full-color 3D facial images during the x-ray exposure. In contrast to many other 3D facial imagers, GALILEOS FaceScanner operates without the use of lasers, eliminating patient risk. The simultaneous x-ray and soft-tissue imaging, allows extremally precise, fully automated image integration. Realistic texture, color and shading allow for an optimal soft-tissue depiction – an ideal tool for patient education!

Looking toward the future, further development could even include the ability to predict changes to the soft tissue structure during and following treatment – by means of surgical or orthodontic simulation. Seeing the possible course of treatment in 3D is the easiest way for the patient to understand the planned therapy.

First precision study worldwide
Scientists at the University of Cologne, Germany, have put the precision of the GALILEO FaceScanner to the test. The result: The hard and soft tissue images are fused with a deviation of less than one millimeter.

More trust from the patients’ side
The patient will have more faith and more trust in you thanks to FaceScanner imaging. Seeing one’s own face depicted realistically in 3D helps identify with the diagnosis when compared to 3D hard tissue imaging. This way they will be able to understand your suggested therapy faster and better.

Large field-of-view – true 180°: GALILEOS face scan includes all relevant structures.
Investment security

3D now or later: Great future prospects!

ORTHOPHOS XG 3Dready

3D x-ray doesn’t yet fit your current plans for your practice? Keep the option open for the future: Sirona also offers a 3D module, allowing the ORTHOPHOS XG ready to be upgraded to an XG 3D at any time. Benefit from the advantages of the tried-and-tested ORTHOPHOS XG family now – with perfect image quality and practice-adjusted workflow. Invest on the safe side, able to take the step into the 3D dimension at any time.

Sirona cares for its user base, with constant improvements to the software and hardware. We offer new updates in rough annual rhythms, so that our customers are always able to work with the newest technologies, comfortably and economically. If desired, you can also ensure your investment by taking advantage of an extended warranty.

The investment in 3D will pay off faster than you may think: thanks to 3D, your patients will have a better understanding of your suggested therapy. Increased case acceptance by one patient per month pays for the 3D module.

Flexibility for tomorrow
- Unit firmware can be updated at any time
- Customizable touchscreen interface
- Periodical software updates
- 3D module and cephal arm can be retrofitted at any time
- High-end technical specifications to accommodate future applications

Year future with 3D
- More security with difficult diagnoses
- Innovative, time-efficient workflow
- Increased patient trust
- Low-risk implant planning and surgery
- State-of-the-art Integrated Implantology

An investment that will pay off
- Reliable and durable technology provided by Sirona
- Tested in numerous clinical studies
- Extended warranty possible
- Fast amortization through expanded practice spectrum and increased case acceptance
- Integrated solutions for the entire practice
### Technical characteristics at a glance.

<table>
<thead>
<tr>
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<th><strong>ORTHOPHOS XG 3D:</strong> 2D programs at a glance</th>
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<tr>
<td><strong>S1 maxillary sinuses</strong></td>
<td>in one image</td>
</tr>
<tr>
<td><strong>S2 maxillary sinuses</strong></td>
<td>in two images</td>
</tr>
<tr>
<td><strong>S3 maxillary sinuses</strong></td>
<td>in one image (linear)</td>
</tr>
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<td><strong>Field of view</strong></td>
<td>15 cm x 15 cm x 15 cm</td>
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<tr>
<td><strong>Scan time</strong></td>
<td>15–20 s</td>
</tr>
<tr>
<td><strong>Resolution in 2D</strong></td>
<td>isotropic voxel edge size: 0.3 mm</td>
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<tr>
<td><strong>Effective dosage</strong></td>
<td>ICRP 2007: Schulze - 43–175 µSv</td>
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<td><strong>Effective radiation angle</strong></td>
<td>Adjustable</td>
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<td><strong>Min. door width</strong></td>
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<td><strong>Max. patient weight</strong></td>
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<td><strong>Patient positioning</strong></td>
<td>Standing/seated, chin rest/bite block</td>
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<td><strong>View</strong></td>
<td>Fully navigable 3D, partly navigable 2D,</td>
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<td></td>
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<tr>
<td></td>
<td>ortho, panoramic, anterior, posterior, lateral,</td>
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<tr>
<td></td>
<td>not limited, with high resolution,</td>
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<td></td>
<td>SL/PA, UL/PD, LLO/AO, RO/AO,</td>
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### Views

- **Partly navigable 3D:**
  - Fully navigable 3D, partly navigable 2D, cephalometric, skull, panoramic, ortho, ortho, panoramic, anterior, posterior, lateral, with high resolution, SL/PA, UL/PD, LLO/AO, RO/AO, Models 20–50 mm, Models with high resolution, 120, 150, 180, 240, 300, and 400 mm.
- **Max. patient weight:**
  - approx. 120 kg
- **Min. door width:**
  - 66 cm

### System Features

- **Retrofit options:**
  - Forescan® (optional)
  - Forescan® (optional), to Ceredent version
  - Spectral, with high-resolution 3D and 2D images, 120, 150, 180, 240, 300, and 400 mm.

### Optional Features

- **Quickshot option for all PAN programs**
- **Automatic adjustment of the rotation curve to the jaw width**
- **Automatic positioning with occlusal bite block**
- **Multiview in posterior tooth region**
- **Panorama options:**
  - Cephalometric views, with a constant magnification of 1:2
  - **TM1 lateral**
  - **TM2 axial**
  - **TM3**
  - **TM4**
  - **TM5**
  - **TM6**

### Software

- **SIDEXIS – Image processing and management software**
- **GALAXIS – Diagnosis-based work, clarification of diagnostic tasks**
- **GALILEOS Implant – Implant planning software**
- **CEREC meets GALILEOS – Simultaneous prosthetic and surgical planning**
- **REPORTER (optional)**
- **FaceScanner Viewer Software**

### Field of view

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<td><strong>Effective dosage</strong></td>
<td>ICRP 2007: Schulze - 43–175 µSv</td>
</tr>
<tr>
<td><strong>Effective radiation angle</strong></td>
<td>Adjustable</td>
</tr>
<tr>
<td><strong>Min. door width</strong></td>
<td>66 cm</td>
</tr>
<tr>
<td><strong>Max. patient weight</strong></td>
<td>approx. 120 kg</td>
</tr>
<tr>
<td><strong>Max. patient weight</strong></td>
<td>approx. 110 kg</td>
</tr>
<tr>
<td><strong>Max. patient weight</strong></td>
<td>approx. 110 kg</td>
</tr>
</tbody>
</table>

### System Features

- **Retrofit options:**
  - Forescan® (optional)
  - Forescan® (optional), to Ceredent version
  - Spectral, with high-resolution 3D and 2D images, 120, 150, 180, 240, 300, and 400 mm.

### Optional Features

- **Quickshot option for all PAN programs**
- **Automatic adjustment of the rotation curve to the jaw width**
- **Automatic positioning with occlusal bite block**
- **Multiview in posterior tooth region**
- **Panorama options:**
  - Cephalometric views, with a constant magnification of 1:2
  - **TM1 lateral**
  - **TM2 axial**
  - **TM3**
  - **TM4**
  - **TM5**
  - **TM6**

### Software

- **SIDEXIS – Image processing and management software**
- **GALAXIS – Diagnosis-based work, clarification of diagnostic tasks**
- **GALILEOS Implant – Implant planning software**
- **CEREC meets GALILEOS – Simultaneous prosthetic and surgical planning**
- **REPORTER (optional)**
- **FaceScanner Viewer Software**