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 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 worflow that leads to greater practice success. Enjoy every day. With Dentsply Sirona.

FASTER
EFFICIENT CLINICAL
WORKFLOW

SAFER
PREDICTABLE
DIAGNOSIS
AND TREATMENT
OPTIONS

**GREATER
ACCEPTANCE**
COMMUNICATE WITH
STUNNING IMAGES
TO YOUR PATIENTS

MORE INSIGHT. MORE POSSIBILITIES.

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 Sirona 3D, patients understand and accept treatment recommendations more readily, improving their overall experience. 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.

WHEN DOES 3D PROVIDE MORE CERTAINTY?

Areas	Cases
Implantology	eg, recognizing case risks and limitations before performing a surgical procedure, performing implants with minimal invasion, assessing the prosthetic and surgical conditions at the same time
Endodontics	eg, 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 (eg, before apicoectomy)
Oral and maxillofacial surgery	eg, displaced teeth, fracture diagnostics, sinus diagnostics, cysts, retained roots, orthognathic surgical procedures
Orthodontics	eg, displaced, impacted teeth, cephalometric analysis, root resorptions, cleft lips, jaws, and palates
TMD treatment	eg, functional diagnostics and therapy of the temporomandibular joint dysfunctions (TMD)
General dentistry	eg, 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
Airway analysis	3D visualization of the airways, while taking the position of the condyle into consideration can significantly help with appliance based therapy

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.
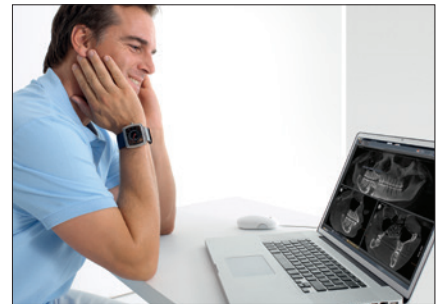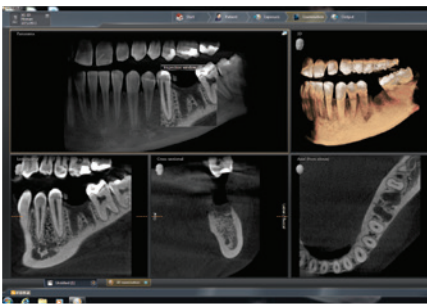
1 BEST IMAGE QUALITY

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.

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, Dentsply Sirona CBCT systems are also compatible with most third-party software for orthodontics, which makes processing 3D x-rays extremely simple.
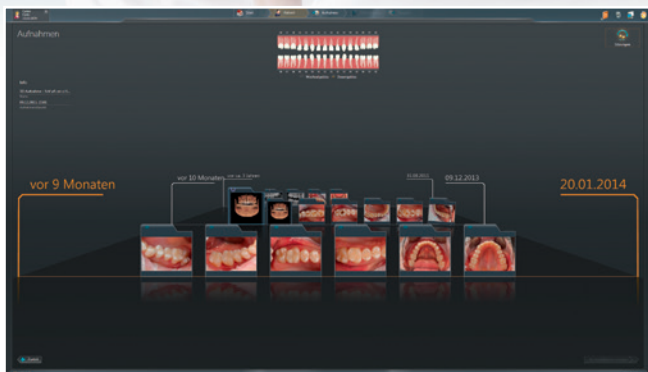
The timeline gives us a quick overview of the entire history of the patient. This allows you to add a time dimension to your diagnostic options in a very intuitive way.
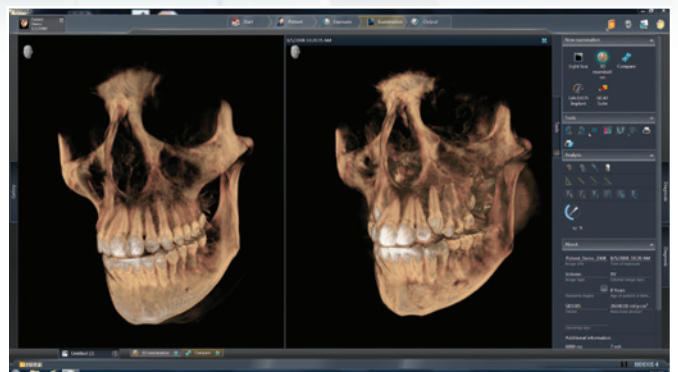

Side-by-side display of multiple images taken over time offers objective anatomical comparisons.

WORKING DIGITALLY IS NOW SO EASY.

SIDEXIS 4 – this is the core of the digital workflow with Dentsply Sirona.

The software with its intuitive user interface has a very simple structure: it follows the clear structure of your work processes and provides you at all times with all visual data of your patients seamlessly 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.

- Modern design

- Software platform for all Dentsply Sirona x-ray units

- Intuitive operation, optimally coordinated workflow

- Simple overview of the patient history thanks to the intuitive timeline

- Easy export of DICOM data sets

- Interface of the integrated solutions from Dentsply Sirona
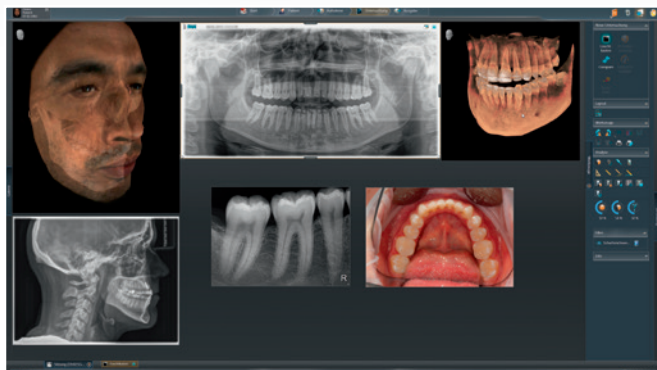
CLEAR AND UNDERSTANDABLE WORKFLOWS
The software structure with easy-to-understand symbols makes it simple to use. It is geared to your practice workflows and it helps the entire practice team to use the software intuitively.

"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.

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.
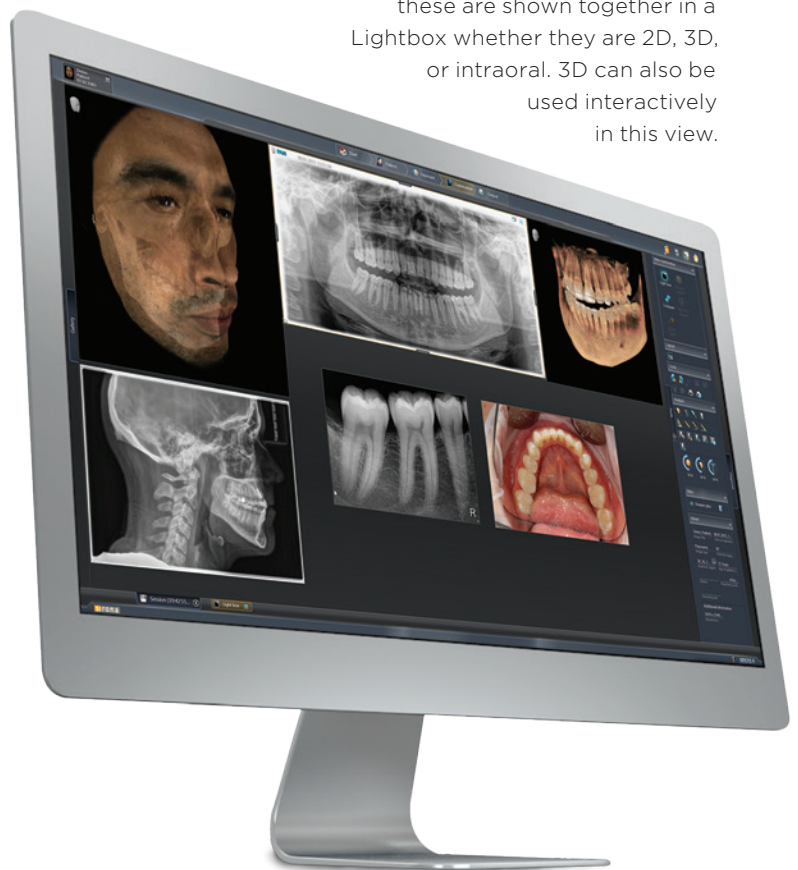
SCHICK 33

ORTHOPHOS SL 3D

GALILEOS

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.

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.
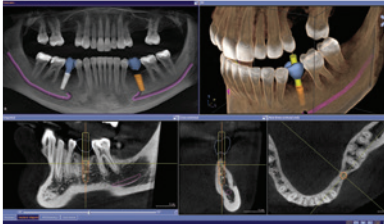
DIAGNOSIS

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.
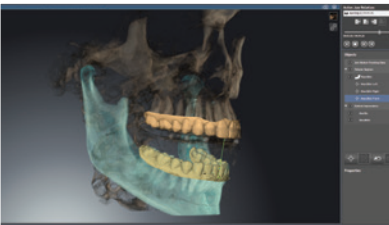
SCAN   DIAGNOSIS
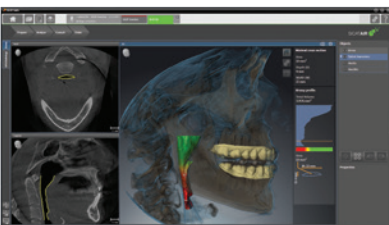
GALILEOS IMPLANT

SURGICAL GUIDE

SICAT FUNCTION

TMD APPLIANCE

SICAT AIR

SLEEP APPLIANCE

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.

PLANNING

TREATMENT

WORKING TOGETHER TO
REVOLUTIONARY APPROA

The patented Sirona 3D implant process allows for true digital dentistry. The results are enhanced patient communication, improved case acceptance, and superior final outcomes – ONLY FROM DENTSPLY SIRONA.

Integrated Implantology only with Dentsply Sirona.
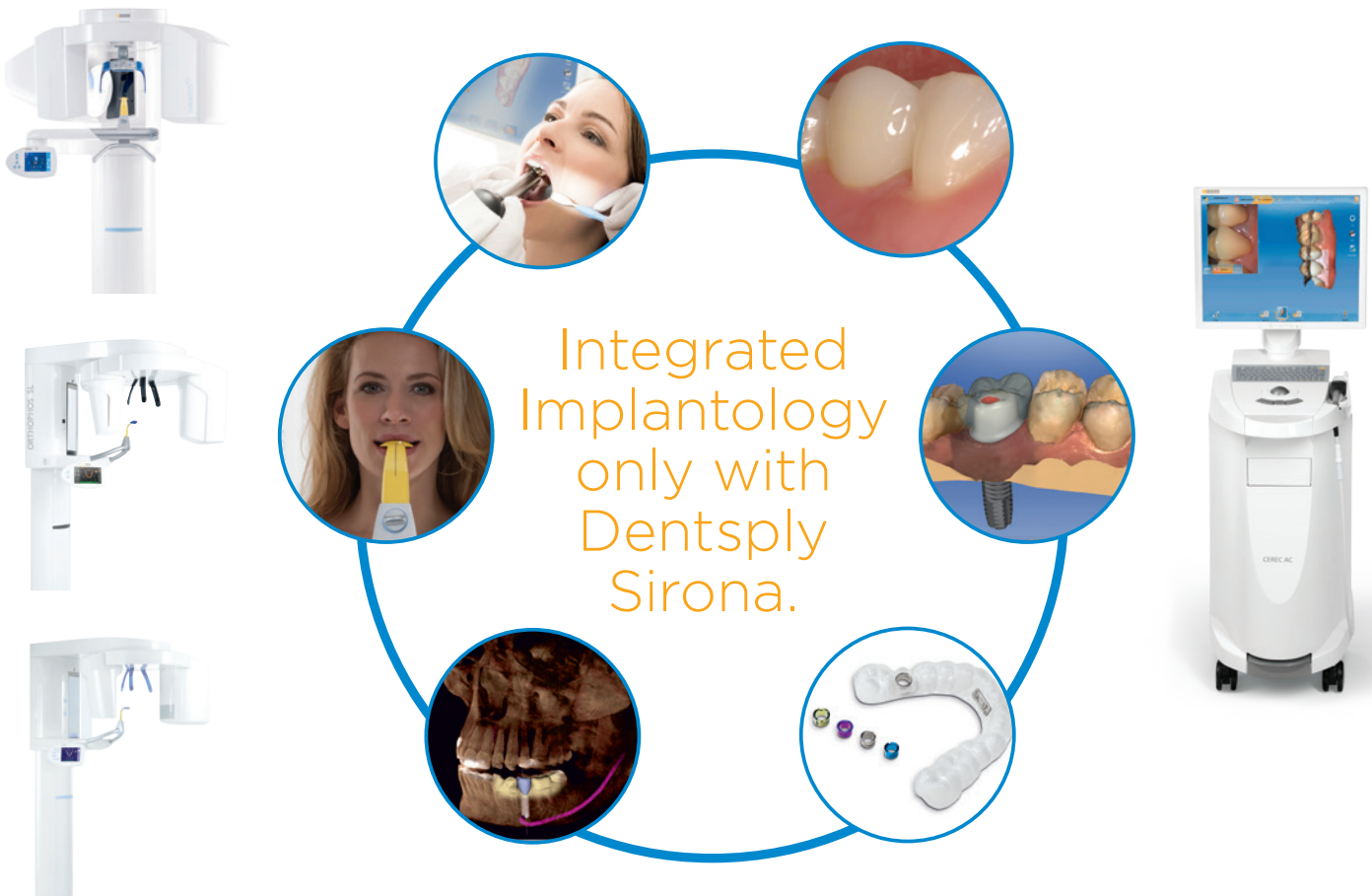
>112K
# of implants placed with surgical guides from Dentsply Sirona

>250
Scientific studies documenting clinical safety

>28 MILLION
Restorations placed

CREATE A
ACH TO IMPLANTOLOGY.

Advantages of Integrated Implantology.

1. SAFETY

2. TRUST

3. PROFITABILITY

4. EASE OF USE

5. PRACTICE MARKETING

Sirona 3D Imaging + 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

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: Intraoral impressions for the prosthesis–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.

1ST SESSION

WITH DENTSPLY SIRONA

CEREC AC with CEREC Omnicam and CEREC Bluecam

GALILEOS, ORTHOPHOS SL 3D, or ORTHOPHOS XG 3D

GALILEOS Implant software

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, Dentsply Sirona has the most convenient and quickest in-house surgical guide in the world.
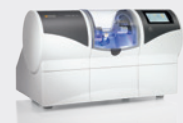
2ND SESSION

CEREC Guide 2

SICAT OPTIGUIDE

RESTORE

In the final step, you plan the abutment and crown with the CEREC 4.4 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 intraoral sensors.

3RD SESSION*

CEREC Software 4.4

CEREC MC X or CEREC MC XL PL milling unit

* Applies to immediately resilient implants

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.
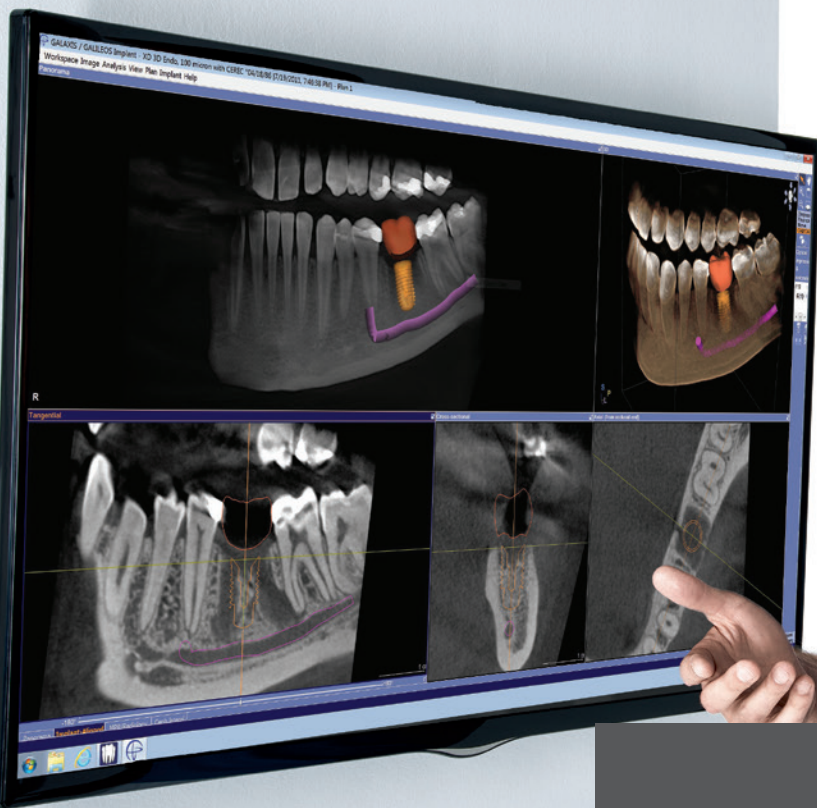
SICAT CLASSICGUIDE
Edentulous.

SICAT CLASSICGUIDE
Partially Edentulous.

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 12-13).

PRECISE PLANNING
Implant planning with 3D Imaging 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.

SICAT DIGITALGUIDE
The SICAT 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 and flexibility of over 500 implant lines to choose from by gaining faster turnaround to meet even the tightest deadline.
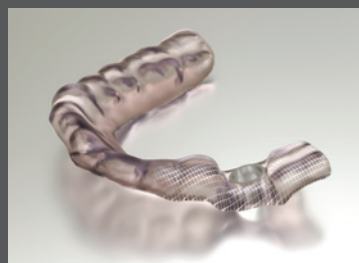
CEREC® GUIDE 2
You can fabricate a surgical guide in less than one hour with CEREC® using optical impressions and Sirona 3D x-ray scans. You no longer need to create a model and fabricate an x-ray template with reference bodies. Thus CEREC® Guide 2 is a fast and cost effective way to produce surgical guides.

SICAT OPTIGUIDE
Complete digital workflow.

SICAT DIGITALGUIDE
Fabricate locally through a SICAT Partner lab or laboratory of your choice.

CEREC® GUIDE 2
In-office fabrication in less than one hour.

UNIQUE POSSIBILITIES.

In addition to integrated implantology, SIDEXIS 4 integrates many other time-saving and convenient software solutions. For example, the SICAT Function offers a simple workflow for functional diagnosis and therapy. For the first time, a 3D solution is available that allows analysis and treatment of obstructive sleep apnea in a purely digital workflow thanks to the new SICAT Air software.

SICAT AIR

After analysis of the upper airway in 3D, SICAT Air gives a report on the effect of the planned protrusion degree and possible effects on the temporomandibular joint. Ordering an individual patient therapeutic appliance is done purely digitally.
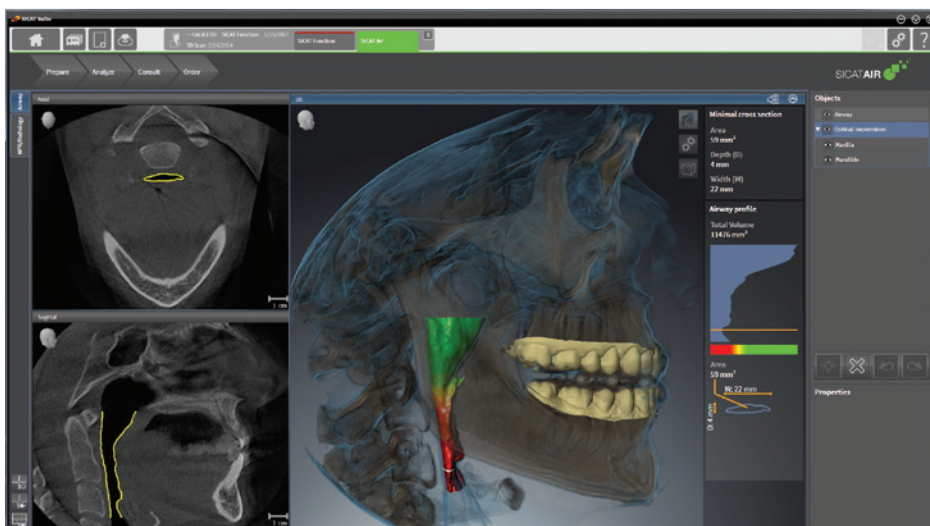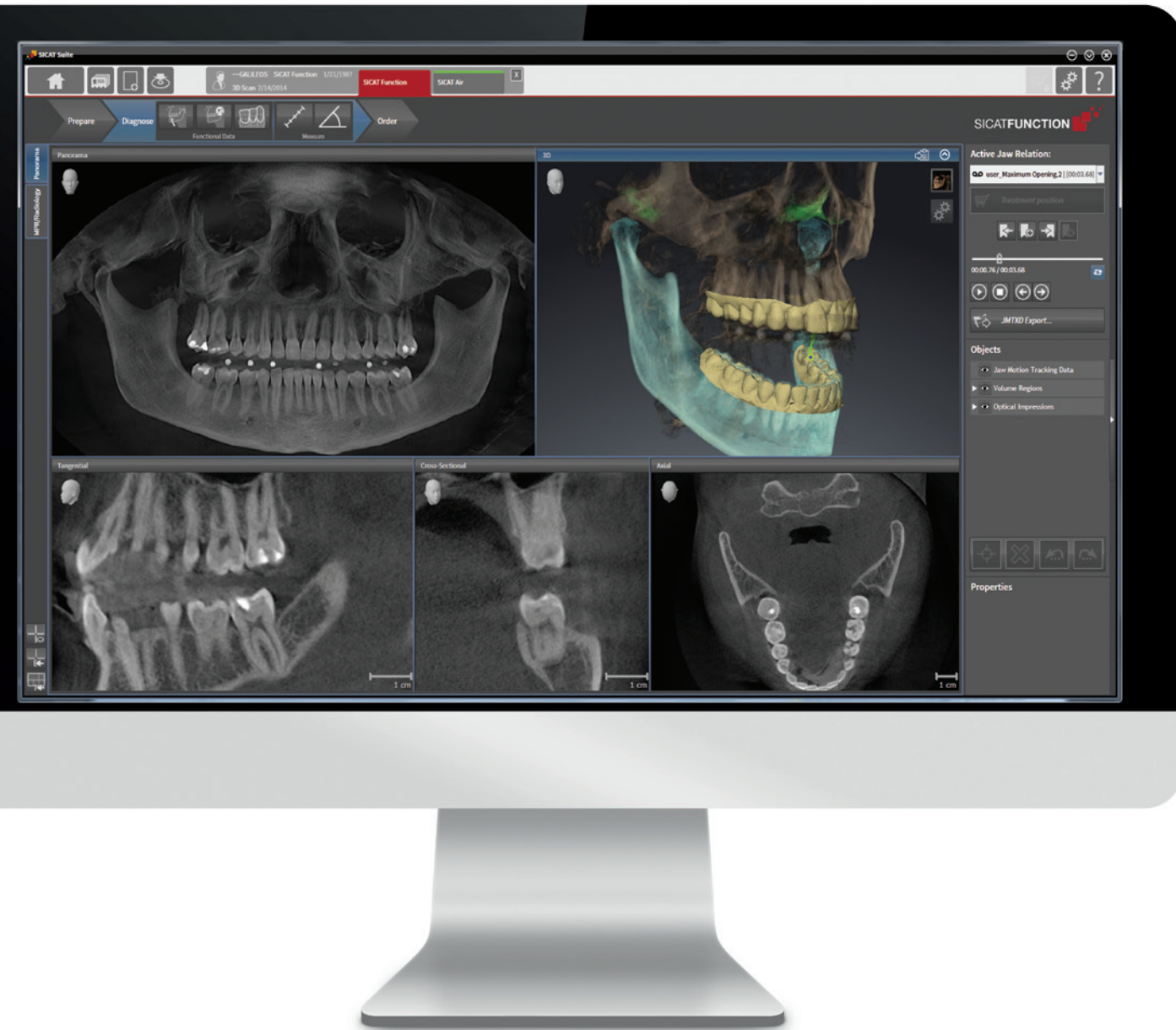
SICAT FUNCTION

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

SICAT FUNCTION WITH CEREC

In combination with CEREC, you receive the actual articulation in CAD/CAM. The advantages: functional prosthetics with reduced grinding effort and implementation of new treatments.

OPTIMOTION

OPTIMOTION is the world's first CMD therapeutic appliance that implements both the individual patient movements and the pure condyle-fossa relationship in the therapeutic appliance. Depending on the preference, the OPTIMOTION is completed purely digitally with SICAT.

FRONT CANINE GUIDANCE

FREEDOM IN CENTRIC

MICHIGAN PRINCIPLE

HD IMAGE QUALITY
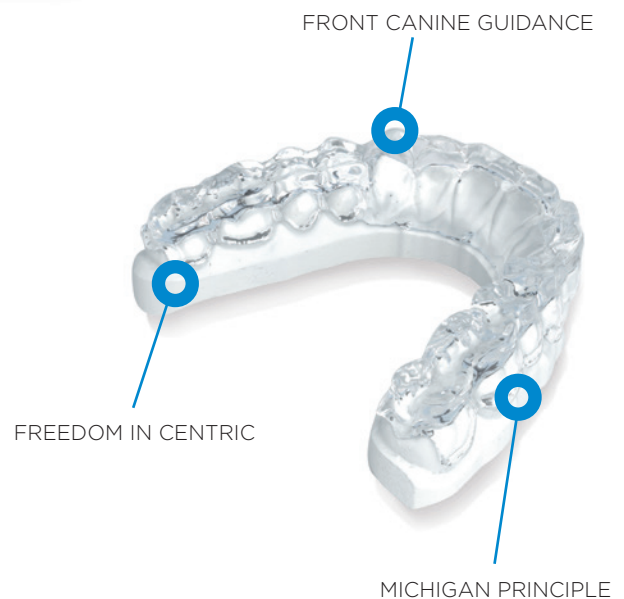
GALILEOS Comfort^{Plus}	Implant	Function	FaceScan
Elite Package: ○ GALILEOS FaceScan, SICAT Function, RCU, GALILEOS Implant	✓	✓	✓
Function Package: ○ SICAT Function, RCU, GALILEOS Implant	✓	✓	
Standard Package: ○ RCU, GALILEOS Implant	✓		

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
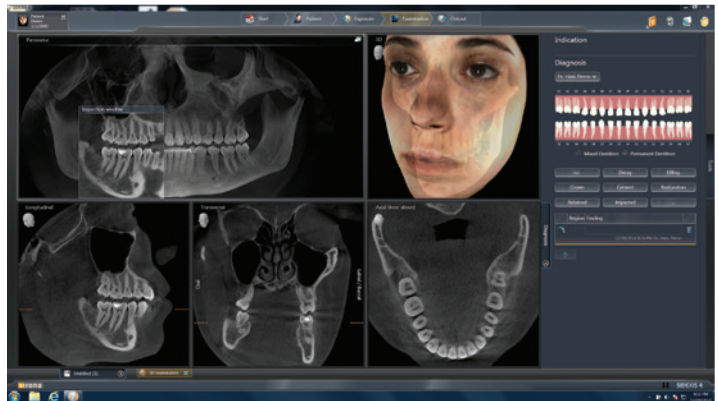
INTEGRATED FACESCAN

MORE ABOUT
GALILEOS® COMFORTPLUS.

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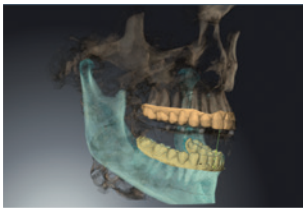
SICAT FUNCTION
The first integrated digital 3D solution to provide a simple workflow diagnosis and treatment of temporomandibular joint dysfunctions (TMD).

Dolphin
Imaging & Management Solutions
a Patterson Technology

DOLPHIN CEPHALOMETRIC

DOLPHIN INTEGRATION
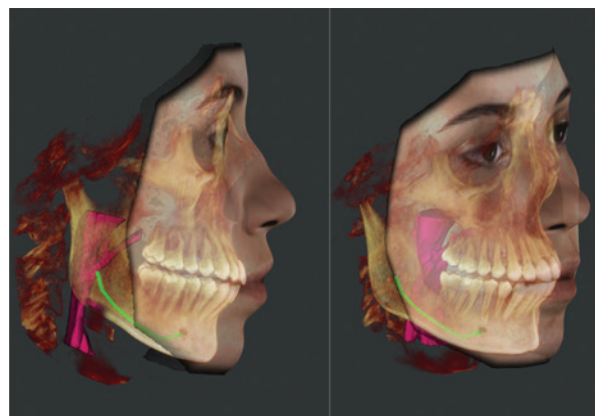
ORTHOPHOS SL

sirona

UNPARALLELED IMAGE QUALITY

MORE INFORMATION:
sirona3D.com

ORTHOPHOS® SL 3D.

A powerful performer for every practice.

From incredibly sharp 2D panoramic images, to full 3D volume flexibility due to its selectable fields of view, and easier, more secure patient positioning for the perfect x-ray image, the ORTHOPHOS SL 3D facilitates every workflow.

UNBEATABLE SHARPNESS: SHARP LAYER TECHNOLOGY

Sharp Layer (SL) technology allows you to generate several thousand images during a single rotation. The fragments with the best focus are automatically combined to form one x-ray image with incomparable sharpness.

Special cases such as displaced teeth, for example, are no problem because you can define an image detail of your choice for focusing on lingual/buccal objects after scanning thanks to the interactive SL–for determining position without corrective scans.

SMART SOLUTION:
DYNAMIC IMAGES THAT
YOU CAN ADJUST TO
THE SITUATION.

DCS

DIRECT CONVERSION SENSOR

WITHOUT DCS

X-RAY

LIGHT

ELECTRICAL SIGNAL

IMAGE

MORE DIRECT WITH DCS

X-RAY

ELECTRICAL SIGNAL
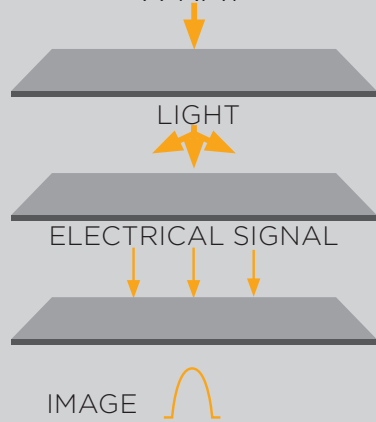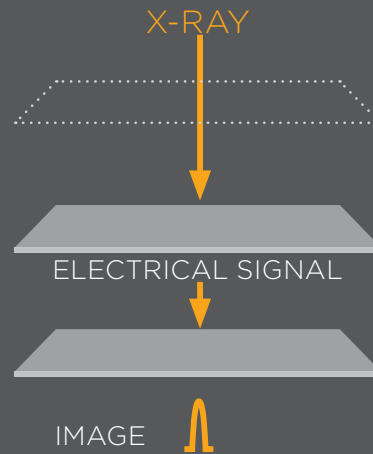
IMAGE

- Unparalleled definition
- Better image quality with the lowest dose

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.

EASY OPERATION, SAFE POSITIONING.

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.

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

OPTIMAL WORKFLOW

ORTHOPHOS SL
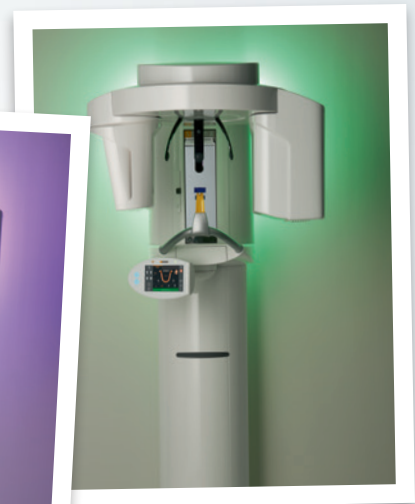
AMBIENT LIGHT
The soothing ambient light
with a range of over 30 colors
creates a pleasant atmosphere
for your patients and fits perfectly
into your modern practice look.

FLEXIBLE VOLUME SELECTION.

ORTHOPHOS SL 3D is available in the following package configurations

ORTHOPHOS SL 3D-i:
Implant Volume

ORTHOPHOS SL 3D-Ai:
Airway Volume   Implant

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 provides images perfectly suited for orthodontic analysis and tracings.

THE RIGHT VOLUME FOR ALL SITUATIONS

5 x 5.5   8 x 8   11 x 10

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

ORTHOPHOS XG

The ORTHOPHOS XG 3D can be upgraded to include the Implant software.

HD
IMAGE
QUALITY

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.

AUTOMATIC ADJUSTMENTS TO
THE JAW WIDTH
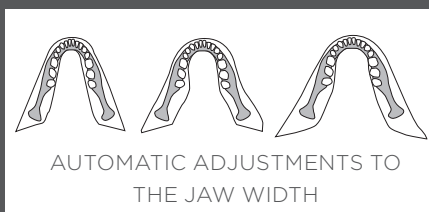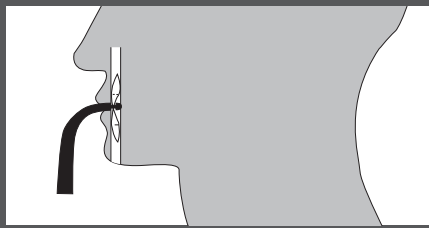
Precise positioning.

Comfortable stabilization.

Ease of operation.

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
- 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

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

WITHOUT MARS   WITH MARS
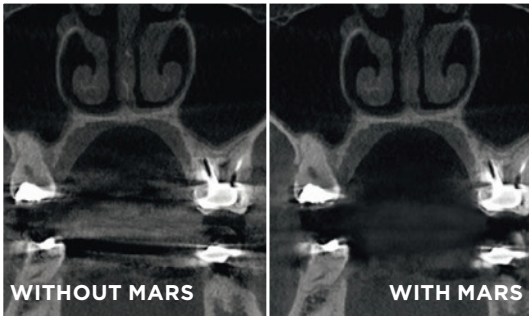
MARS
REDUCES METAL ARTIFACTS FOR A BETTER DIAGNOSIS

- Makes it possible to provide an improved diagnosis in areas where it was difficult before due to metal artifacts
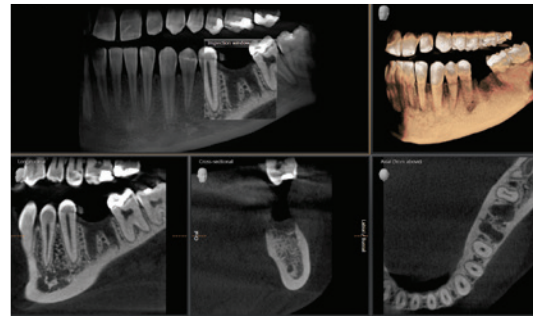
ENDO HD FOR ORTHOPHOS® XG 3D
HD VOLUMETRIC IMAGES FOR ACCURATE AND PRECISE ENDODONTIC TREATMENT

- 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
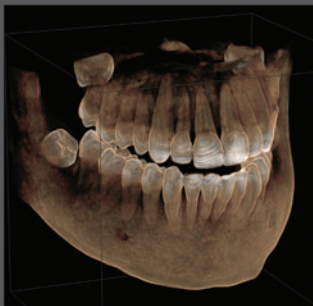
COMPARISON OF STANDARD AND HD MODE

Mode		VOL 1 (8 cm Ø x 8 cm height)	VOL 2 (5 cm Ø x 5.5 cm height)
Standard mode		■ 200 individual images ■ Pulsed radiation ■ Voxel size 160 μm	■ 200 individual images ■ Pulsed radiation ■ Voxel size 160 μm
HD mode		■ 500 individual images ■ Continuous radiation ■ Voxel size 160 μm	■ 500 individual images ■ Continuous radiation ■ Voxel size 100 μm

ASTRA FOR ORTHOP

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.

WITHOUT ASTRA

Scan with HiDef sensor.

HIGH CONTRAST AND IMPROVED VISUALIZATION OF DETAILS.
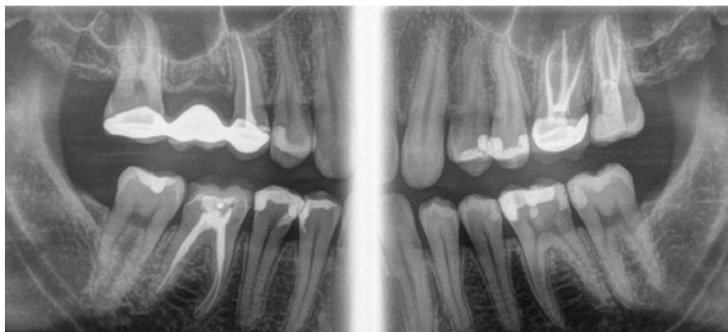
HOS® XG 3D.
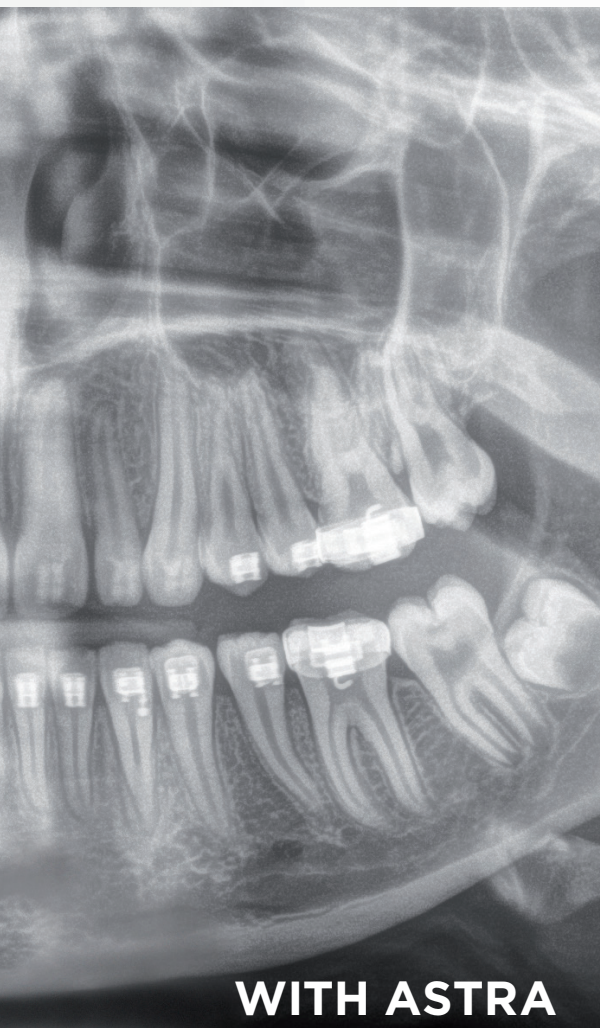
WITH ASTRA

Scan with HiDef sensor and
processing with ASTRA.
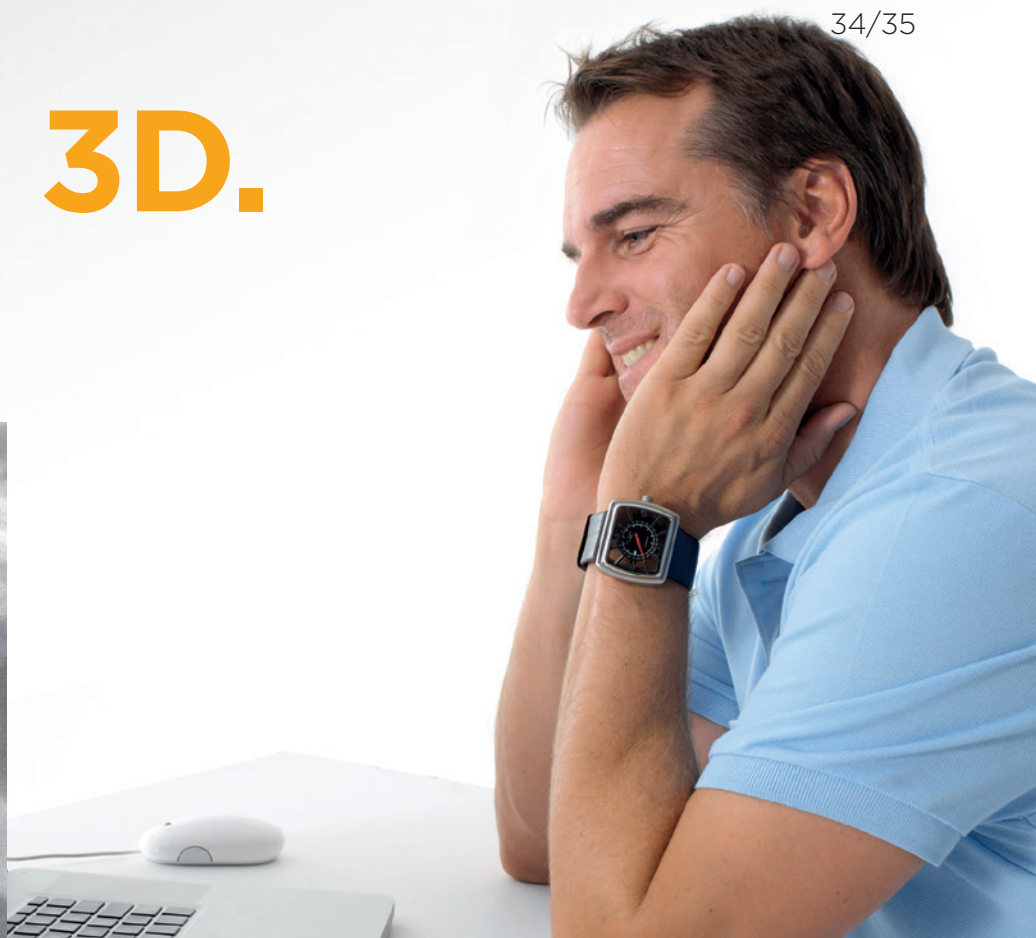
ASTRA

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.

HD IMAGING WITH THE HIDEF SENSOR.
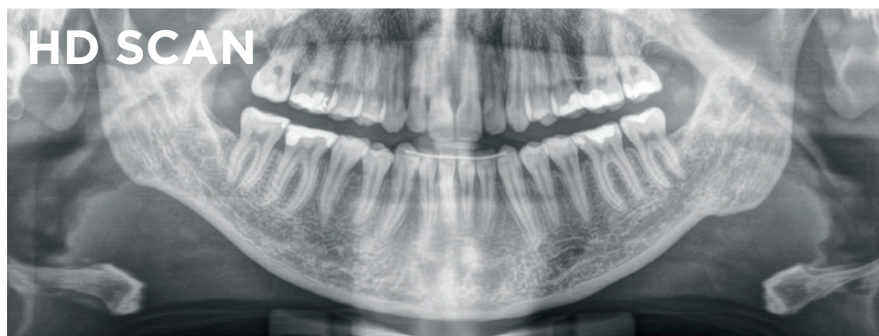
HD SCAN

ORTHOPHOS SL

AUTO POSITIONER FOR ORTHOPHOS®.

Automatic patient positioning for ORTHOPHOS SL 3D and XG 3D.

AUTO POSITIONER ENSURES OPTIMAL JAW ALIGNMENT WITHIN THE IMAGE LAYER

The auto positioner 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 Dentsply Sirona panoramic equipment, only two positioning points need to be adjusted. The mid-sagittal plane is aligned quickly using two positioning lines and the dark, scribed line on the auto positioner.
- The patient's front teeth are placed edge-on-edge in the grooved auto positioner, establishing the correct positioning point without the need of a third light line that is subjective to random operator interpretation.
- The ORTHOPHOS® SL 3D and XG 3D unit automatically adapt 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.

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 Sirona 3D x-ray unit is right for you.

WHICH UNIT IS THE ONE FOR YOU?

Unit	GALILEOS Comfort PLUS	ORTHOPHOS SL 3D	ORTHOPHOS XG 3D
General dentists	●	●	●
Orthodontic practice	●	●	–
Endodontist	●	●	●
Implantology practice	●	●	○
Oral and maxillofacial surgery	●	●	–
Radiology center	●	●	–
ENT practice	●	–	–
Functional Diagnosis/TMD	●	–	–
Sleep and Airway	●	●	–

● Suitable.
○ Optional.

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 daily basis.
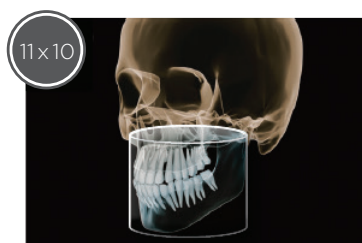
ORTHOPHOS® SL 3D

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.
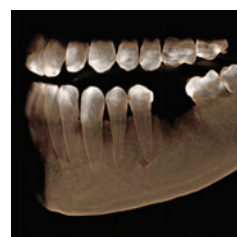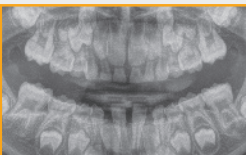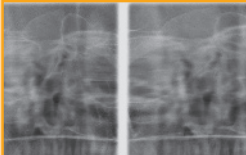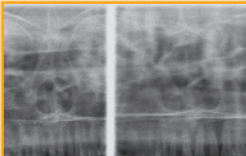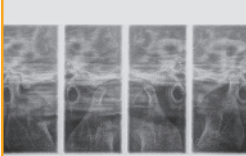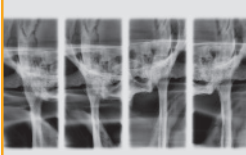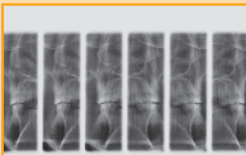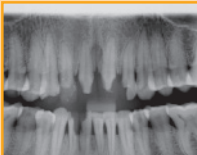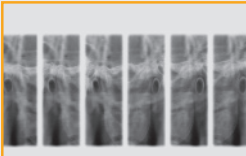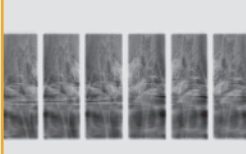
ORTHOPHOS® XG 3D

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	GALILEOS® Comfort PLUS	ORTHOPHOS® SL 3D	ORTHOPHOS® XG 3D
Field of view	15.4 cm spherical imaging volume collimated 15 x 8.5 cm (UJ/LJ)	11 cm Ø x 10 cm height 11 cm Ø x 8 cm height 11 cm Ø x 7.5 cm height 8 cm Ø x 8 cm height 8 cm Ø x 5.5 cm height 5 cm Ø x 5.5 cm height	8 cm Ø x 8 cm height 8 cm Ø x 5.5 cm height 5 cm Ø x 5.5 cm height
Resolution in 3D: isotropic voxel edge size	0.25/0.125 mm	0.16 mm; 0.08 mm in HD mode	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	2–5 s; 14 s in HD mode
X-ray generator kV mA	98 3–6	60–90 3–16	60–90 3–16
Effective dosage (ICRP 2007)	27–166 µSv (Ludlow)	15–273 µSv (Ludlow)	13–166 µSv (Ludlow)
Space requirements Min. space requirements (depth x width x height)	61"x 63"x 89" minimum values 58" x 53" x 89"	56"x 51"x 89" (PAN), 56"x 85"x 89" (CEPH) minimum values pan 55" x 48" x 89" minimum values ceph 55" x 78"x 89"	56"x 51"x 89" (PAN) minimum values pan 55" x 48" x 89"
Min. door width	At least 26" for installation	At least 26" for installation	At least 26" for installation
Weight	X-ray unit approx. 308 lbs	X-ray unit approx. 243 lbs	X-ray unit approx. 243 lbs
Technical specifications			
User interface	EasyPad	EasyPad	EasyPad
Patient positioning	Standing/seated, chin rest/bite block, forehead support and head fixation device	Standing/sitting, chin support/bite block, occlusal bite block with automatic patient positioning, universal bite block with colored stop positions	Standing/seated, chin rest/bite block, occlusal bite block for automatic patient positioning for 2D panoramic radiography
Wheelchair accessible	Yes	Yes	Yes
Software	■ SIDEXIS 4 – Image processing and management software ■ GALILEOS® Implant – Implant planning software ■ CEREC integration– Simultaneous prosthetic and surgical planning ■ SICAT Function (optional)	■ Implant ■ SIDEXIS 4 Image and management software ■ GALILEOS® Implant Software ■ CEREC Integration – Simultaneous prosthetic and surgical planning	■ SIDEXIS 4 – Image processing and management software ■ GALILEOS Implant – Implant planning software (optional) ■ 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	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	Implant Airway and Implant	—
Retrofit options	GALILEOS FaceScan SICAT Function	Airway Volume, Ceph	Implant
2 Day Clinical Training	2 Clinicians	1 Clinician	1 Clinician

2D PROGRAMS WITH ORTHOPHOS® XG 3D AND ORTHOPHOS® SL.*

PANORAMIC

P1 orthoradial radiation

P2 without ascending rami

P10 pediatric panorama, beam field reduced in height and length

- Standard exposure
- 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

Optional panning
UJ, LJ, right, left, individual quadrants

P12 thick slice in anterior tooth region

Optional panning
UJ, LJ

- Quickshot option for all PAN programs
- Automatic adjustment of the rotation curve to the jaw width
- Automatic positioning with occlusal bite block

SINUS

S1 maxillary sinuses in one image

S2 maxillary sinuses in two images

S3 maxillary sinuses in one image (linear)

S4 maxillary sinuses in two images (linear)

Multislice in posterior tooth region

MS1

Bitewing

BW1

BW2 anterior tooth region

Optional panning
right, left

TEMPOROMANDIBULAR JOINT

TM1 lateral

TM2 axial

Adjustable radiation angle
- with open and closed occlusion
- with a slice position

TM3

TM4

TM5

TM6

*In contrast to XG 3D, ORTHOPHOS SL does not have the following programs: TM2, TM4, TM5, TM6, MS1, S2, S3

SIDEXIS 4 SOFTWARE.

SYSTEM REQUIREMENTS

Server PC	Minimum requirements	Recommended requirements
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) 2012 (64 bit)
RAM	≥4GB	≥8GB
CPU	≥2 GHz DualCore	≥ 2.3 GHz QuadCore processor with 64 bit (x64)
Hard disk	>675GB	> 1TB
	During operation it must be ensured that there is always sufficient hard disk space available.	

Workstation PC**	Recommended for 2D	Recommended for 3D
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 7 Professional, Ultimate (64 bit), also under Bootcamp* • Windows 8 Pro (64 bit) • Windows 8.1 Pro (64 bit)
RAM	≥4GB	≥8GB
CPU	≥2 GHz DualCore	≥ 2.3 GHz QuadCore processor with 64 bit (x64)
Graphics card†	≥512MB	≥1GB
DirectX	DirectX 9.0c	DirectX 10 with WDDM 1.0 or higher driver
Hard disk	≥5GB	≥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.
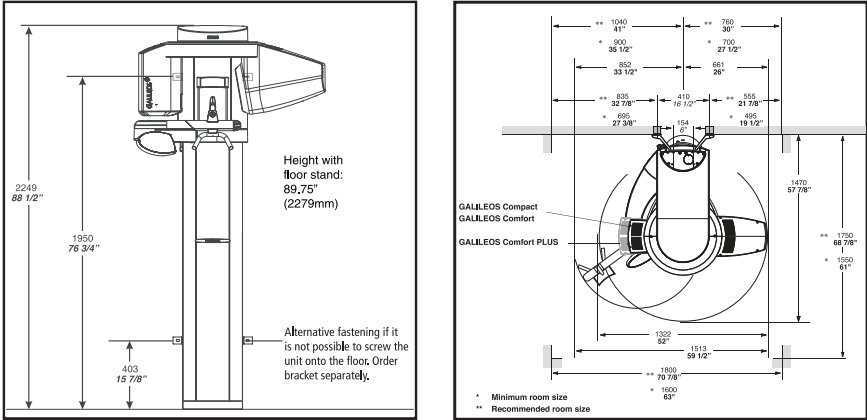
WHEELCHAIR ACCESSIBLE (Optional)
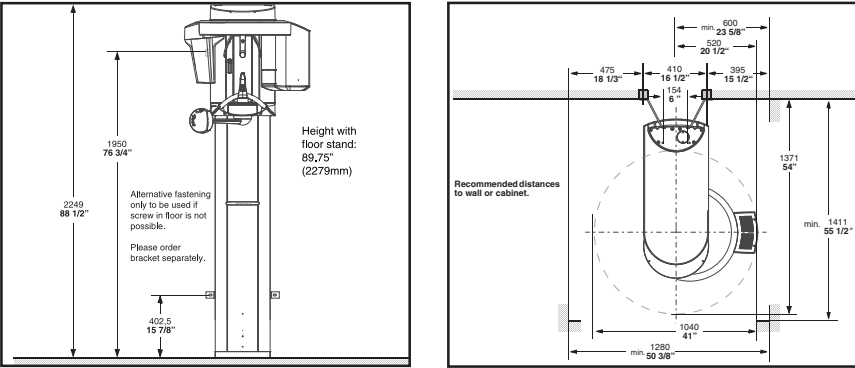Individual patient positioning even for wheelchair users.

DIMENSIONS FOR GALILEOS®.
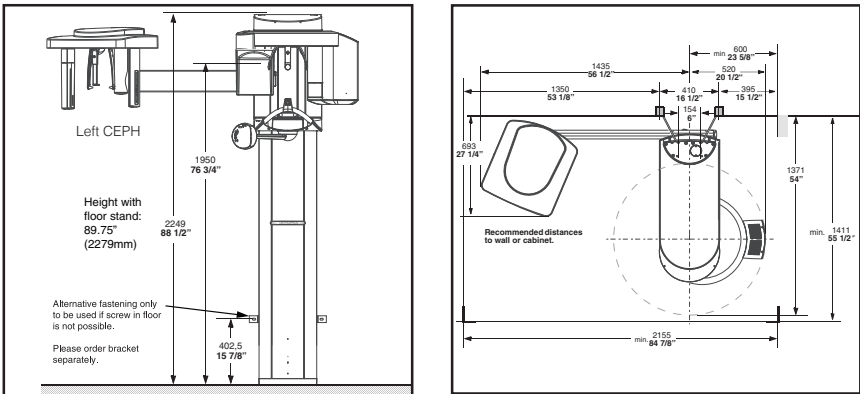
Designed to fit your workflow and your practice.

Height with floor stand: 89.75" (2279mm)

2249 *88 1/2"*

1950 *76 3/4"*

403 *15 7/8"*

Alternative fastening if it is not possible to screw the unit onto the floor. Order bracket separately.

** 1040 41"
* 900 35 1/2"
852 33 1/2"

** 760 30"
* 700 27 1/2"
661 26"

** 835 32 7/8"
* 695 27 3/8"
410 *16 1/2"*
154 *6"*

** 555 21 7/8"
* 495 19 1/2"

GALILEOS Compact
GALILEOS Comfort

GALILEOS Comfort PLUS

1470 57 7/8"

** 1750 68 7/8"
* 1550 61"

1322 52"
1513 59 1/2"

** 1800 70 7/8"
* 1600 63"

* Minimum room size
** Recommended room size

DIMENSIONS FOR ORTHOPHOS®.

Flexible x-ray imaging that accommodates any size practice.

1950 76 3/4"

2249 88 1/2"

Height with floor stand: 89.75" (2279mm)

Alternative fastening only to be used if screw in floor is not possible.

Please order bracket separately.

402,5 15 7/8"

min. 600 23 5/8"
520 20 1/2"

475 18 1/3"
410 16 1/2"
395 15 1/2"
154 6"

1371 54"

min. 1411 55 1/2"

Recommended distances to wall or cabinet.

1040 41"
min. 1280 50 3/8"

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

Left CEPH

1950 76 3/4"

Height with floor stand: 89.75" (2279mm)

2249 88 1/2"

Alternative fastening only to be used if screw in floor is not possible.

Please order bracket separately.

402,5 15 7/8"

1435 56 1/2"
1350 53 1/8"

min. 600 23 5/8"
520 20 1/2"
410 16 1/2"
395 15 1/2"
154 6"

693 27 1/4"

1371 54"

min. 1411 55 1/2"

Recommended distances to wall or cabinet.

min. 2155 84 7/8"

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".