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Hyperion X5
3D/2D Ceph suspended imaging system



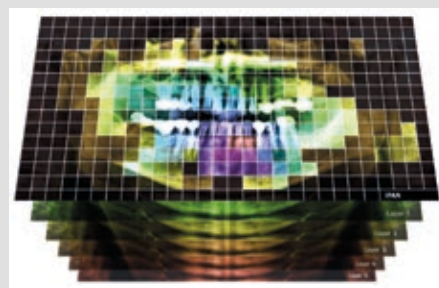
Hyperion X5. Continuous innovation.

The smallest 3D/2D suspended system in the world evolves to integrate teleradiographic examinations as an extra option. Innovative design, flexibility and user-friendliness. Out of our experience comes the best solution for every dentist.

Hyperion X5 evolves to let the dentist choose a Ceph application, which can also be retrofitted. Quick and easy to use throughout the examination, this system ensures high resolution 3D and 2D images and low emission times plus fast data processing for real time diagnosis and improved patient communication. The new virtual console streamlines capturing procedures and introduces new protocols for volumetric examination of maxillary sinuses and orthogonal panoramic images. Thanks to the automatic servo-controlled movements of the 3D sensor block, short examination times ensure a consistently positive experience.

A new opportunity for 3D/2D and Ceph.

- Ceph-Ready
- iPAN (DoseSaver 80)
- Full 3D: dentition and maxillary sinuses
- Intuitive virtual console - Guided workflow
- Servo-controlled movements



iPAN (DoseSaver 80) & MRT

The PAN examination uses MRT (Morphology Recognition Technology) and the latest iPAN protocol to automatically generate a single high-quality panoramic image. Image resolution is optimized thanks to an algorithm that selects the best, sharpest focus.



Cephalometric examination

The new Hyperion X5 teleradiographic system features programs for every diagnostic need. Ultra-high quality images, extremely short scan times and low irradiation doses: the very best cephalometric technology, all in the most compact unit the market has to offer.



Cone Beam 3D in HD

3D images with ultra-fast scans at low doses and very high resolution (Voxel **80 µm**) over the complete dentition, combined with dedicated FOVs developed to obtain consistently excellent results. Complete dental diagnosis, including assessment of maxillary sinuses.

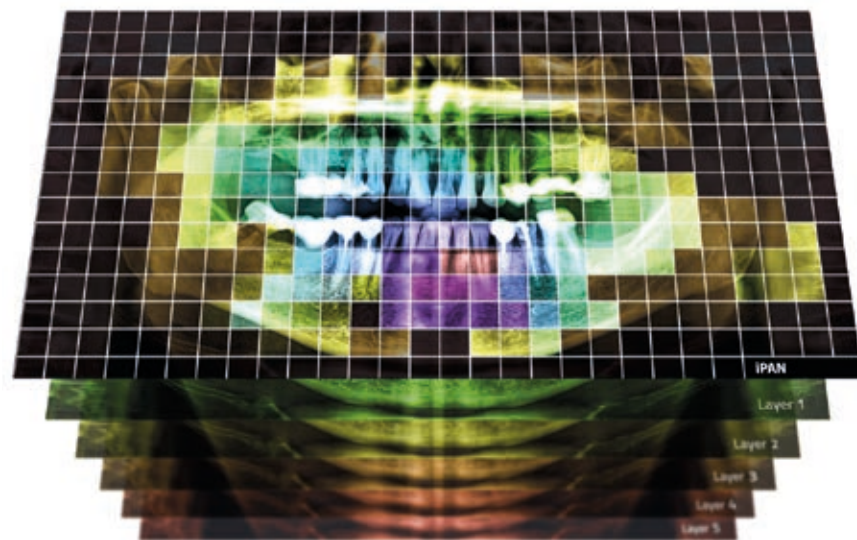
iPAN. Lower doses, greater comfort.

Hyperion X5 takes performance to the next level by simplifying workflows, safeguarding patient health and delivering cutting-edge image quality.

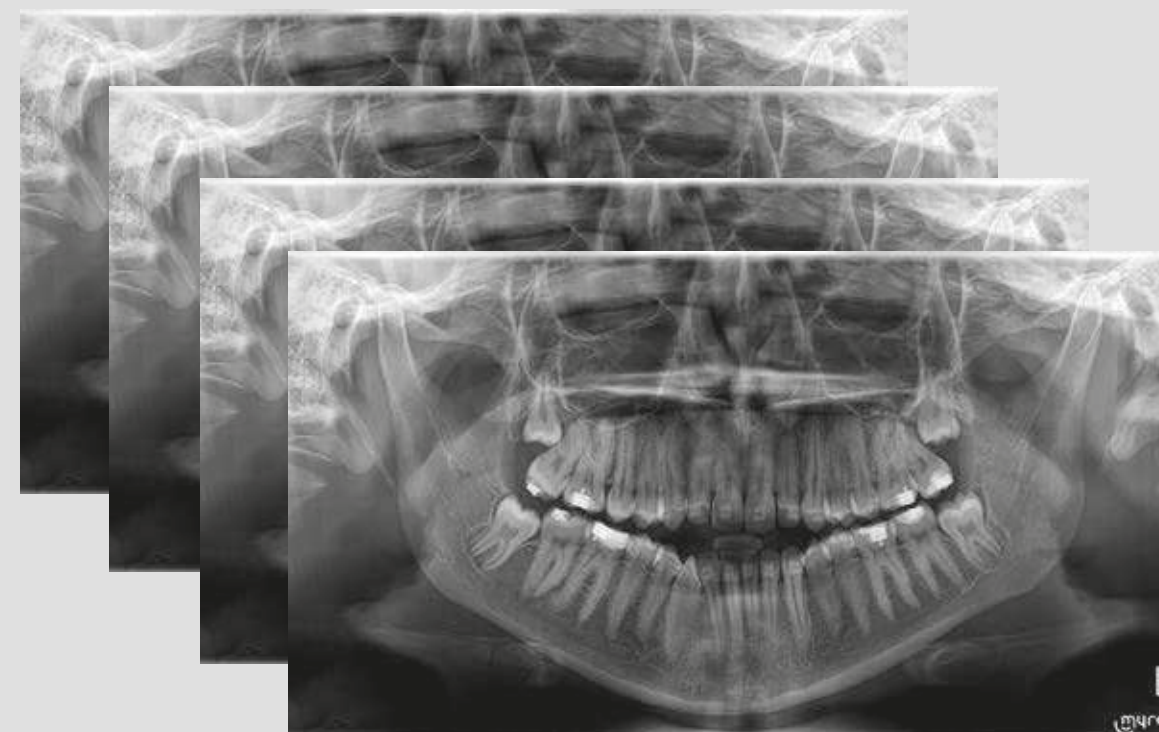
MyRay merges MRT technology with the new intelligent iPAN function - together with the DoseSaver 80 configuration - to provide a single image with a focus that's optimized according to the patient's specific morphology. All with an extremely low dose. The end result: a single panoramic image created automatically by the device, which selects the anatomical areas of each layer to be shown in the sharpest focus.

Always in Focus.

- Dose reduced by 20%
- Better contrast on dental structures
- Adaptable to patient's anatomy
- Quick and simple workflow
- Efficient communication



MultiPAN (DoseSaver 100)



New iPAN (DoseSaver 80)



Designed to satisfy your every need.

Hyperion X5 is the cutting-edge imaging system that covers your every need. A compact, complete solution that boosts your surgery's diagnostic potential.

A complete family of dental imaging solutions for all dental surgeries.

Designed for surgeries that require three-dimensional diagnostic potential, the 3D/2D-configuration Hyperion X5 offers just the right solution and simultaneously provides excellent 2D performance.

The optional integration of the teleradiographic arm further boosts the diagnostic capacity.

MyRay, Just right for you.

- Compact&Light
- Capacità diagnostiche superiori
- Plug&Play
- Patient comfort
- Accessible technology



Hyperion X5 2D PAN*

Focus-Free digital panoramic system suitable for all users, equipped with MultiPAN function and orthogonal projection. Designed to ensure accessible, accurate 2D study of the complete dentition, maxillary sinuses and temporo-mandibular joints.

*Not available for USA/Canada



Hyperion X5 2D PAN "Ceph Ready"

Focus-Free MultiPAN 2D imaging system designed for all users, with variable collimator to limit exposure to the region of interest only. Designed to be upgradeable at any time with a teleradiographic arm.



Hyperion X5 2D PAN CEPH

Full CEPH digital teleradiographic imaging system with Focus-Free orthogonal panoramic imaging suitable for all users. Designed to simplify dental diagnostics with real-time images, which can also be viewed on iPad.



Hyperion X5 3D PAN "Ceph Ready"

3D Multi FOV imaging system with Focus-Free PAN designed for all users and factory-set for upgrading at any time with a teleradiographic application. Designed to simplify dental diagnostics with 3D and 2D images that can be viewed in real time.



Hyperion X5 3D PAN CEPH

3D Multi FOV imaging system with Focus-Free PAN and Full CEPH accessible for all users, suitable for wall mounting. Designed to make complete dental diagnostics accessible in real time.



Light and compact like an intraoral X-ray unit, offering an extensive range of options. All you need is a wall.



3D TECHNOLOGY

Diagnostic flexibility.

Flexible, efficient, fast. Hyperion X5 - designed to deliver the best results in minimum time with limited doses. It displays 2D and 3D images packed full of details to produce effective and safe diagnoses.

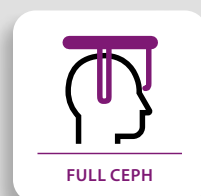
Hyperion X5 is a complete, user-friendly X-ray device, equipped with smart automatisms to help doctors to immediately obtain the desired results. The innovative 3D Cone Beam technology of Hyperion X5 generates a multitude of high definition data (80 μm) in a single scan. MultiFOV adapts the field of view to patient builds and diagnostic requirements. Ultra-fast scans and short emission times ensure that patients receive low X-ray doses. Hyperion X5 offers a range of settings, such as the MultiPAN function which lets users choose the most suitable panoramic image for every detail of clinical interest.

Versatile and patient-friendly.

- MultiPAN system
- Extremely high definition 3D (80 μm)
- Clever collimation
- Real-time diagnostics
- Secure & Safe



FULL CEPH



The updated Hyperion X5 Ceph teleradiographic system features programs for every diagnostic need. Ultra-high quality images, extremely short scan times and low irradiation doses: the very best cephalometric technology, all in the most compact unit the market has to offer.

MAXI FLEX



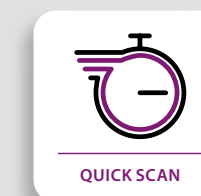
From 2D to 3D, all the diagnostic potential you need. From adults to children, in just a few simple steps. Adapts field of view and doses to actual diagnostic requirements. Intelligent MultiFOV collimation, from the entire dentition (10x10 cm) to just a small portion (6x6 cm). Users can select, according to diagnostic requirements, between HD (80 μm) or low-dose QuickScan (160 μm) protocols.

MULTI VISION



Advanced 2D image processing system, equipped with a MultiPAN feature able to generate in a single scan, with the same exposure levels as in traditional panoramic imaging, 5 different focussing layers from which to select the most appropriate one for your diagnostic needs. Highly useful for analysing patients with complex anatomies and/or correcting post-capture patient positioning virtually.

QUICK SCAN



Available for both 2D and 3D scans, QuickScan protocols minimise scan times and protect patient health by reducing X-ray doses.

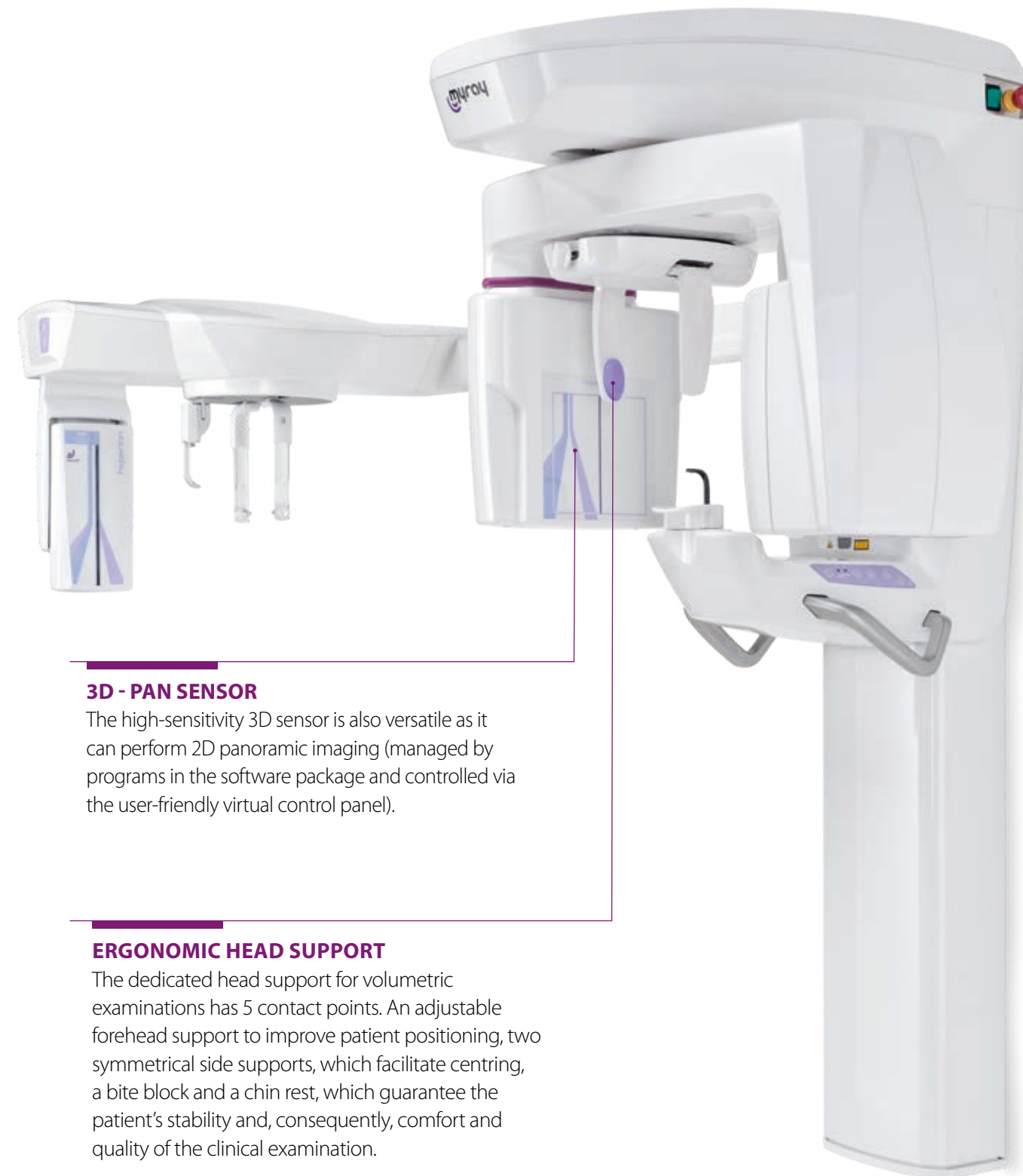
All the potential of 3D.

Achieving the full potential of 3D examinations has never been easier or more effective. Thanks to dedicated mechanisms, patient positioning solutions and exclusive automatisms that help ensure a positive outcome at every examination, dentists can make the most of 3D potential.

Hyperion X5 has a powerful X-ray generator to maximise performance and minimise scan times. It also features a highly sensitive 3D-PAN sensor to produce images of exceptional quality with a minimal irradiated dose. Combined with optimised scan protocols, this latest-generation technology offers a resolution of up to 80 µm.

3D made simple.

- Automatic sensor and collimator alignment
- Ultra-high sensitivity 3D-PAN sensor
- Adjustable and ergonomic head support
- 3D MultiFOV, from 6x6 to 10x10 cm
- Fast, safe CB3D scan (only 6.4 s)



3D - PAN SENSOR

The high-sensitivity 3D sensor is also versatile as it can perform 2D panoramic imaging (managed by programs in the software package and controlled via the user-friendly virtual control panel).

ERGONOMIC HEAD SUPPORT

The dedicated head support for volumetric examinations has 5 contact points. An adjustable forehead support to improve patient positioning, two symmetrical side supports, which facilitate centring, a bite block and a chin rest, which guarantee the patient's stability and, consequently, comfort and quality of the clinical examination.

AUTOMATIC CEPH COLLIMATION

In the event of cephalometric examinations the turret containing the 3D sensor is automatically rotated and lowered, aligning the opening integrated in the structure so as to create suitable collimation for the examination. Moreover, the sensor is positioned so as to make more space available for the patient and ensuring a more comfortable experience.



Expand the diagnostic field.

Capture every detail with 3D technology and expand your view into the third dimension. With 3D you can assess all points of diagnostic interest in their anatomic setting far more effectively than with traditional panoramic images. Ensure maximised practicality and working benefits with Hyperion X5.

A wide range of FOVs available for your clinical needs: from implantology to the measurement of maxillary sinus volumes, from endodontics to oral surgery. Each FOV is available in three versions to adapt to all clinical needs. It takes just a few simple steps to identify the most suitable set-up based on the anatomical region of interest. The innovative selection from three dedicated modes allows the examination to be carried out consistently with the actual diagnostic needs and in a highly user-friendly manner:

QuickScan Faster and ultra-low dose scans for post-surgery follow-up and macro-structure analysis.

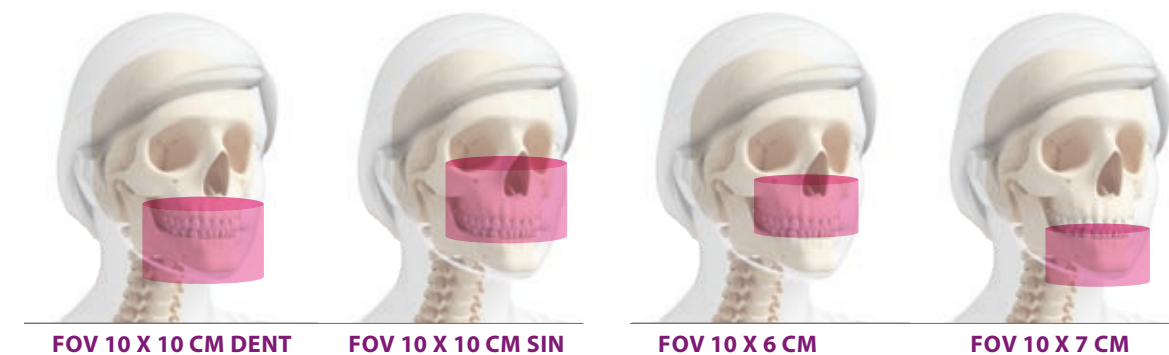
Standard mode Primary diagnostics and treatment planning. The best balance between dosage and quality.

SuperHD Outstanding, uncompromising level of detail. Ideal for micro-structure analysis.

Smart CB3D.

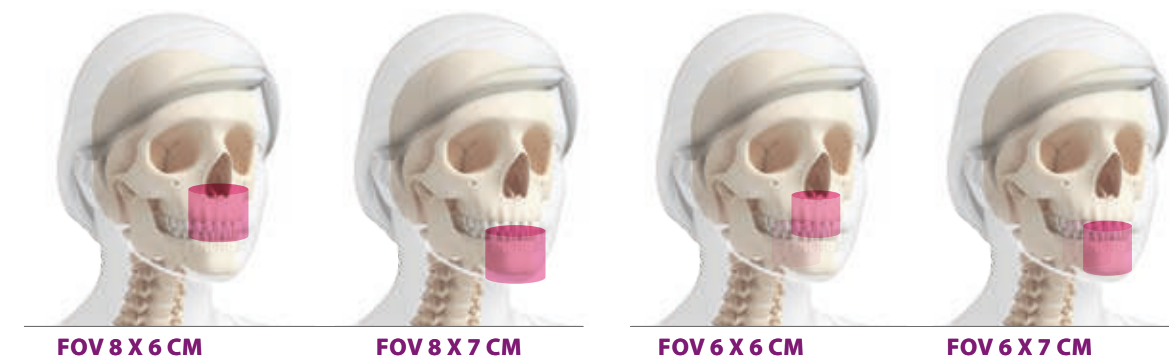
- 3D MultiFOV
- 3 optimised scanning protocols
- Implantology, Orthodontics, Endodontics
- Maxillary sinuses
- Templates, models, impressions

Multiple FOVs



Broaden your vision, expand your diagnosis: in a single scan, Hyperion X5 can show you the entire dentition, including third molar roots or maxillary sinuses of adult patients, via ultra-fast (6.4 s) scans at ultra-low doses, or with very high resolution up to 80 µm.

Fields designed for lower arch imaging including third molars, and upper arch imaging including the maxillary sinus floor. Maximum amount of information in a single volume, for more complete case studies.



Reduced fields of view suitable for examining the upper or lower semi-arch in adult patients, or with limited doses for the examination of the complete dentition in children.

6 cm diameter to view sections along the dental arch. It only scans your area of interest: semi-arches or frontal areas, without cutting out the occlusal zone or the lower base of the upper jaw and minimising patient exposure.

3D

DENTAL EXAMINATIONS

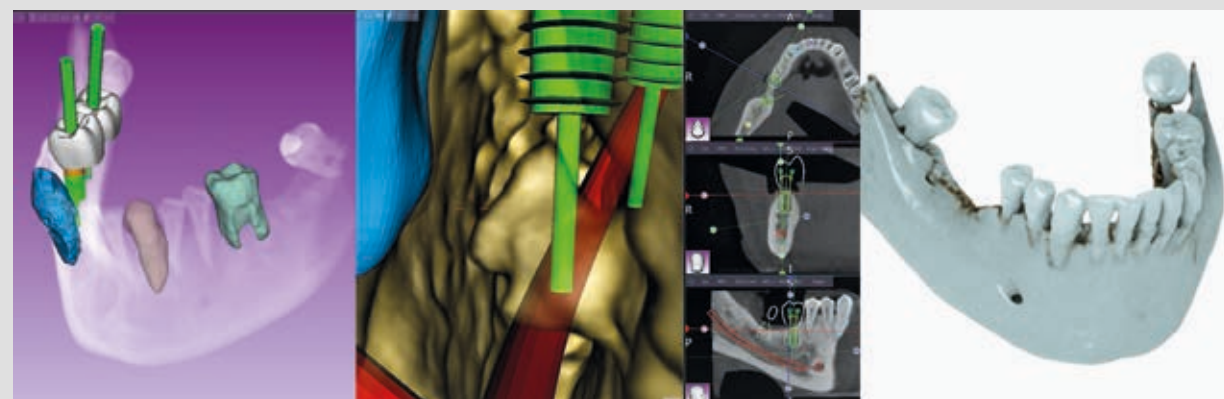
- Complete adult dentition 10 x 10 cm
- Single upper dental arch in adult patient. 10 x 6 cm
- Single lower dental arch in adult patient. 10 x 7 cm
- Complete child dentition: 8 x 7 cm
- Complete child dentition with maxillary sinuses: 8x 10 cm
- Adult upper semi-arch: 8 x 6 cm
- Adult lower semi-arch: 8 x 7 cm
- Child semi-arch or adult upper partial dentition: 6 x 6 cm
- Child semi-arch or adult lower partial dentition: 6 x 7 cm
- Maxillary Sinuses: 10 x 10 cm



Complete, for every flow.

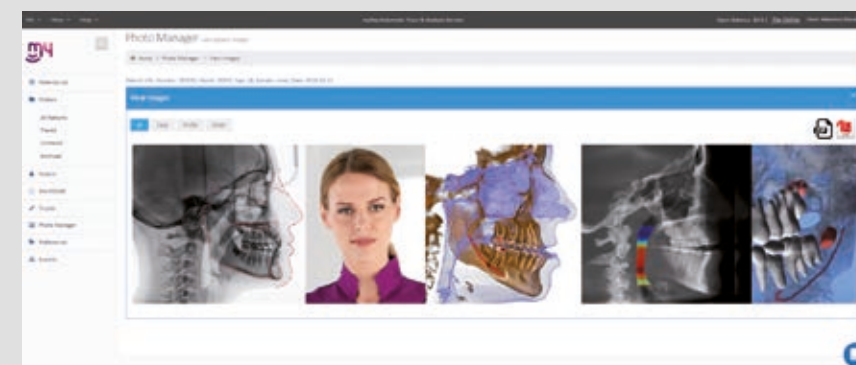
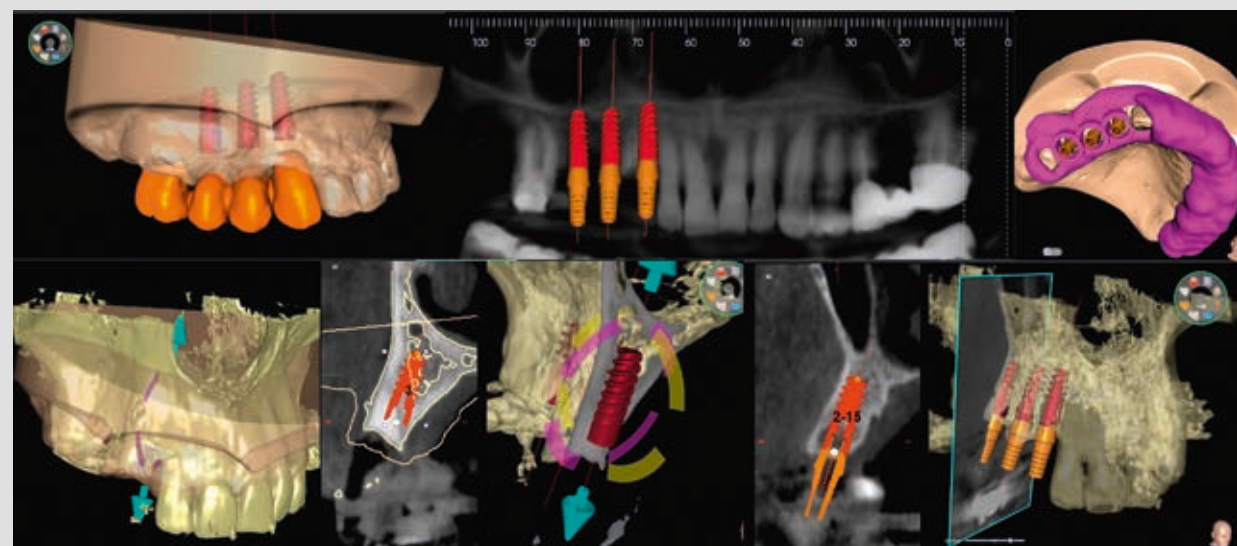
Improving workflow with the CLOUD-based multi-platform software.

Compatible with PC, MAC, iPad and iPhone, RealGUIDE allows for implant planning based on the many implant libraries constantly updated on the CLOUD platform. The MyRay RealGUIDE platform manages implant rehabilitation steps, streamlining CLOUD-based data sharing and providing all the essential elements for surgical template production. In this way, dentists, technicians, implantologists and patients all benefit from fast, precise and shared workflow, with a positive impact on successful treatment outcome. Designed for the creation of surgical templates, it offers a number of features, available according to the chosen version, like the import and overlay on bone data of STL, or PLY (colour) files of digital impressions and/or prosthetic designs scanned by optical scanner; segmentation of volumetric data of anatomical parts (upper and lower jaws, teeth) with **Artificial Intelligence algorithms, exportable to STL**; virtual endoscopy; RealBODY photorealistic rendering.



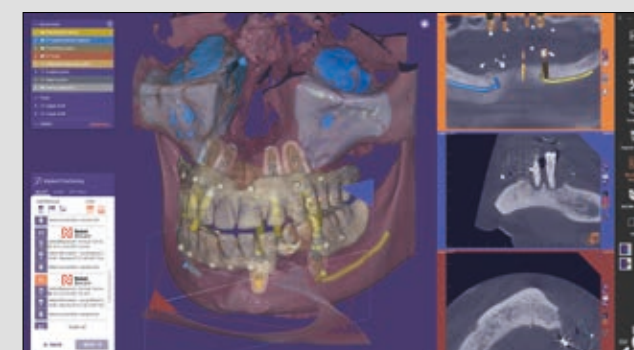
Advanced implant planning.

The implant is placed directly on the 3D model and combined with STL data from intraoral scanners to define the final prosthetic project. With advanced implant design tools you can work safely, thanks to accurate information on the available amount of bone and distance from the surrounding anatomical structures, such as the mandibular canal, defining a minimum safety distance.



* This is an independent software product. Check with the local distributor to see whether this function is legally approved and available in your country.

iRYS software allows for the immediate sharing of 2D or 3D images on the **CephX*** cloud server. It also gives access to A.I. services such as automatic cephalometric tracing, segmentation of the anatomical areas of the volume, or airways analysis.



exoplan®

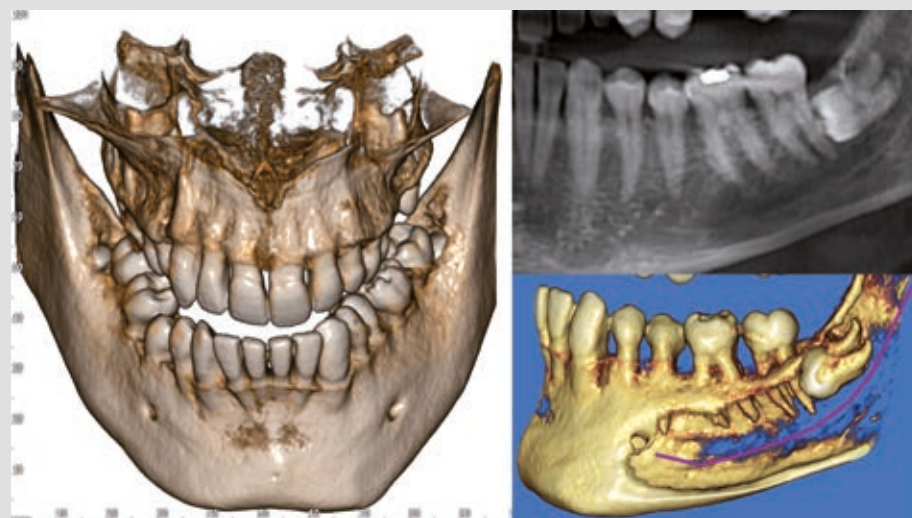
The integration of exoplan lets you merge all your practice's digital images on one simple cutting-edge software platform. Face scans, optical impressions, 3D X-rays and implant planning are integrated in a user-friendly, guided, workflow that helps dentists with implant planning and surgical guide design. To allow optimised use of exoplan, exocad provides a market-leading range of over 780 libraries: undated daily, these contain more than 13,000 validated implants and more than 3,300 surgical components.



exocad Smile Creator®

Thanks to the integrated exocad Chairside module you can combine the acquired optical impressions with patient photos or face scans, creating in-CAD smile designs that lead to predictable makeover results. Gain greater control over outcomes and improve communication with your patients and partners. You'll be able to assess the aesthetic relationships between teeth, smile and face, providing dental technicians with a realistic perspective for restorative treatment plans. Guided workflows and comprehensive functionality make Smile Creator a user-friendly intuitive yet powerful digital planning solution for cosmetic dentistry.

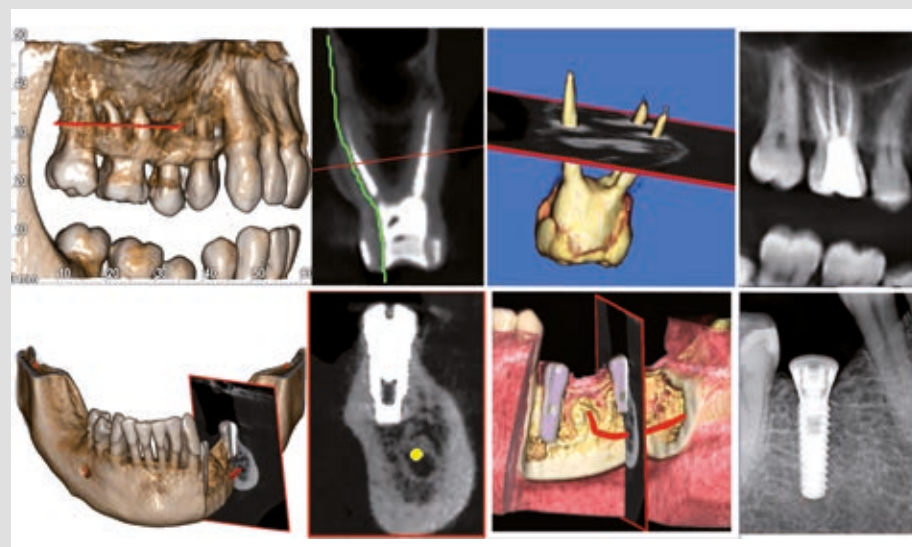
Exploring the third dimension.



COMPLETE (ADULT) DENTITION

Highly accurate scanning of both dental arches (including third molar roots) and surrounding anatomic features, useful for correct diagnosing and improved treatment planning. Unlike 2D, 3D allows for actual positioning identification.

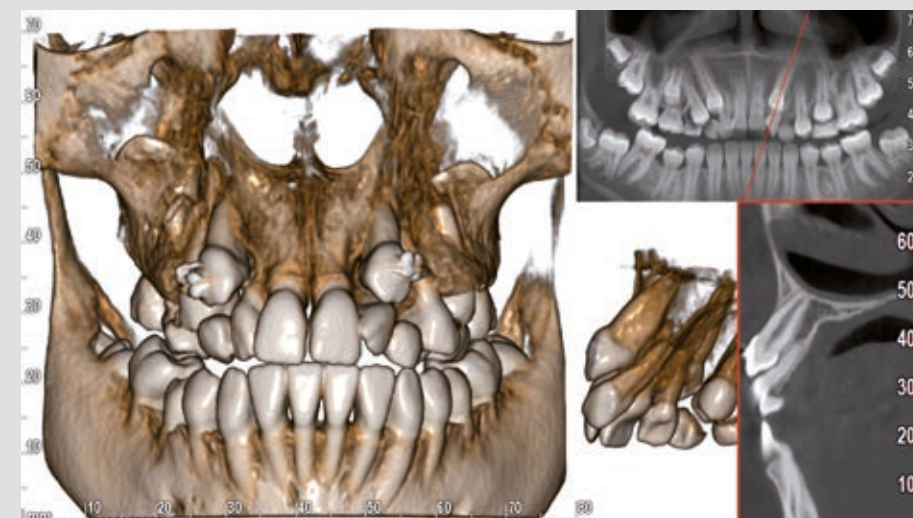
- FOV 10 x 10cm with detailing up to 80 μ m



LOCAL (LOW DOSE) ANALYSIS

Detailed diagnostics within the region of interest only, far more in-depth than 2D examinations, for HD endodontic assessments; study of relationships between impacted teeth; post-op checks with fast scanning and doses equivalent to those of a 2D examination.

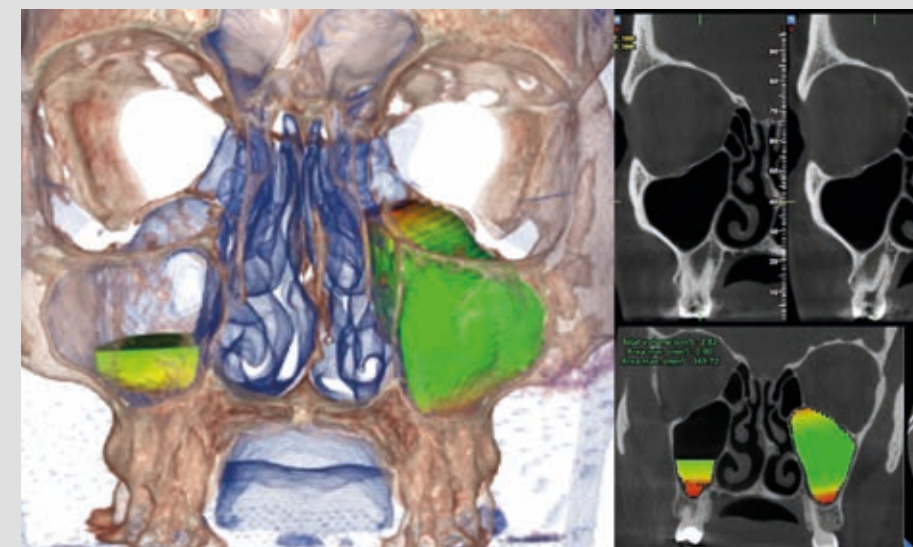
- MultiFOV – HD and QuickScan



COMPLETE (CHILD) DENTITION

Complete, low-dose volumetric examination of the dentition and maxillary sinuses of children. The reduced collimation avoids exposure of sensitive organs while ensuring complete and thorough investigation.

- Limited exposure – Low Dose



MAXILLARY SINUSES

The 10 x 10 cm FOV acquires in a single scan the maxillary sinus image useful for a volumetric assessment of structures and hollows. This allows any disease to be carefully diagnosed for optimised treatment planning, including sinus lifting, and volumetric analysis enabling to trace lines on a virtual patient model, evaluating morphological ratios on 3D renderings.

- Volumetric analysis – Low Dose

Comfort and excellent prospective imaging.

Performance combines with comfort. Its ceph arm is extremely compact and the latest generation repositionable PAN/CEPH sensor guarantees ideal performance in every application.

Easily repositionable in the presence of a teleradiographic arm, with retrofitting options available; the 2D sensor can be used for both panoramic imaging and CEPH examinations. High orthogonality panoramic viewing allows for minimised overlapping of adjacent dental elements: the structures to be examined are shown as clear, distinct items. The 4 contact points head support ensures patient stability and comfort during scanning. An on board drawer is available on the machine for the patient to store personal items during the examination.

Ready for CEPH.

- CEPH-Ready
- High orthogonality PAN
- Repositionable PAN/CEPH sensor
- Comfortable 2D head support
- Fold-away accessory drawer



The best of both dimensions.

Hyperion X5 offers a wide selection of 2D programs for panoramic and cephalometric quality images, full of details useful to deliver an effective and safe diagnosis while protecting the patient's health.

The dedicated CMOS sensor (latest generation Csl) generates sharp and homogeneous 2D images; thanks to its wide selection of acquisition programs, Hyperion X5 is a must-have and user-friendly diagnostic tool. The wide focusing layer allows for detailed imaging throughout the dental arch. In addition to standard panoramic imaging, dentition orthogonal projections and bitewing exposure focussing on dental crowns can also be obtained. Temporo-mandibular joint examinations are possible as both postero-anterior projections and latero-lateral projections. Extensive and accurate scanning also including the maxillary sinuses allow upper airways examination. To minimise the irradiated dose, the scanning area can be limited to the region of interest or the QuickPAN feature can be used for quicker and more comfortable examinations. Select the examination that best reflects actual diagnostic requirements by selecting an ultra-fast or high quality scan.

Broad choice of 2D exams.

- Orthogonal projections
- Quick scanning
- Variable collimation
- Software programs for adults and children
- Servo-assisted positioning (laser guides)



PAN

PANORAMIC IMAGING and DENTITION

- Panoramic viewing and QuickPAN
- Reduced panoramic imaging for children
- Orthogonal panoramic views showing the entire dentition (reduces crown overlap)
- Hemi-panoramic and sectional dentition, with dedicated optimised projections
- 4-segments Bitewing exposures limited to crowns, to detect inter-proximal caries

TMJ

TMJ EXAMINATIONS (OPEN OR CLOSED MOUTH)

- Latero-lateral projection of both TMJs
- Postero-anterior projection of both TMJs
- Lateral and postero-anterior projections of both TMJs

SIN

MAXILLARY SINUS EXAMINATIONS

- Front or side view (left and right) of the maxillary sinuses



2D 3D TECHNOLOGY

Simply CEPH.

Designed to integrate the 2D sensor-equipped arm to perform cephalometric examinations, Hyperion X5 is the most versatile system on the market, offering a wide range of imaging options covering every possible clinical need.

The modular Hyperion X5 platform allows teleradiography module retrofitting at any time. The arm is extremely compact and the latest-generation sensor ensures optimal performance. Aided by programmed automatisms, the sensor aligns perfectly to speed up the cephalometric examination. Users can select the examination that best suits their actual diagnostic requirements by selecting an ultra-fast or high quality scan.

Ready for every requirement.

- Minimal bulk
- Ultra-fast scan
- TOP CEPH examinations
- Optimised alignment
- Operating comfort



CEPH

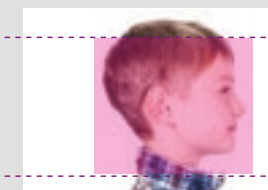
TELERRADIOGRAPHIC EXAMINATIONS

- Latero-lateral projections with selectable scan length
- Pediatric latero-lateral projection, short scan and limited dose
- FULL CEPH projections, with reduced thyroid exposure and inclusion of the skullcap in children
- Antero-Posterior or Postero-Anterior projections
- Submentovertex projection, including Waters and reverse Towne positions
- Carpus projection



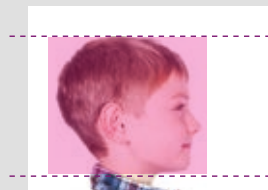
TOP CEPH

Hyperion X5 adapts perfectly to the different examination requirements of adults and children. More specifically, TOP CEPH positioning for children reduces thyroid exposure and prevents sensor-shoulder contact, allowing inclusion, when possible, of the skullcap.



• STANDARD positioning

Conventional rods are used

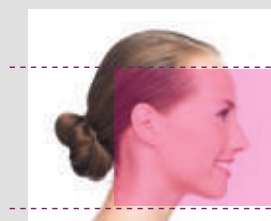


• TOP CEPH positioning

Long rods are used

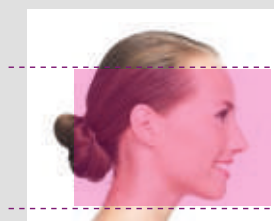
CLEVER COLLIMATION

The exact X-ray exposure area can be selected with reduced scanning. The secondary teleradiographic image collimator is integrated in the rotary module, providing both outstanding compactness and easy access.



• Reduced scan 21cm

72% of irradiated area



• Complete scan 29 cm

100% of irradiated area

Wide range of available 2D examinations



ADULT PANORAMIC IMAGING

Panoramic exposure programs calibrated on patient build to adapt X-ray doses accordingly. Users can select the area of diagnostic interest for complete or partial analysis.

- QuickPAN or standard exposure
- Complete or partial analysis



ORTHOGONAL PANORAMIC IMAGING

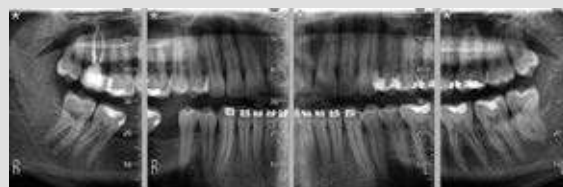
Minimises overlapping of adjacent tooth elements for improved periodontal examinations.



CHILD PANORAMIC IMAGING

Limited exposure and optimised parameters for quick paediatric examinations. Users can select the area of diagnostic interest for complete or partial analysis.

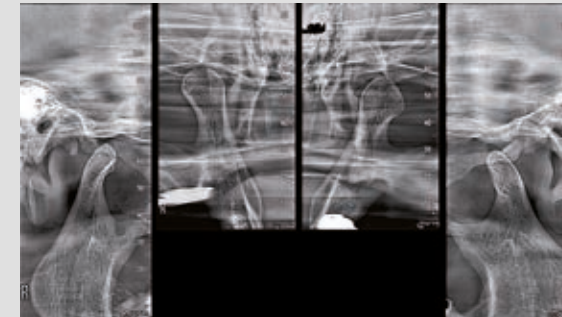
- QuickPAN or standard exposure
- Complete or partial analysis



DENTITION AND BITEWING

Study of dentition with optimised interproximal projection for improved periodontal control. Collimation on the crowns for patients unable to tolerate intraoral bite wings: more comfortable and less intrusive.

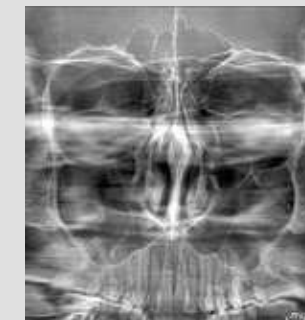
- Increased orthogonality
- Adapted collimation



TEMPOROMANDIBULAR JOINTS

Simpler assessment of the temporomandibular situation thanks to latero-lateral or antero-posterior images, 4 radiographs in a single scan.

- Mouth open or closed
- Sagittal and Coronal



MAXILLARY SINUSES

Characterised by a special image layer to produce radiographs in which the maxillary sinuses are clearly visible.

- Frontal
- Lateral

CEPH. Case studies.



TELERRADIOGRAPHY

Latero-Lateral: with highlighted soft tissue and bone details, critically important for cephalometric studies.

Anterior-Posterior: to detect asymmetries and malocclusions and be able to identify the right treatment.

Carpal bones: for residual growth potential assessment, possible with dedicated support.

MyRay CephX, cloud service for automatic cephalometric traces with A.I. (Artificial Intelligence).



Efficiency means effectiveness.

When the workflow is optimised for every circumstance, effectiveness is a natural consequence. Hyperion X5 adapts to your needs and lets you focus on what's really important: the diagnosis.

Thanks to its advanced tools and features, Hyperion X5 improves every stage of imaging diagnostics, from positioning and examination selection to parameter settings, often entirely automatic. The interface provides guidance for the user throughout the examination set-up and acquisition phase. Equipment control and 2D image displaying can be managed from the virtual console on a PC or via iPad*. The exclusive MRT technology allows clear images to be obtained without having to manually set the exposure parameters, automatically adapting them to the patient's anatomical characteristics. Thanks to MultiPAN acquisition and the 2D Focus-Free feature, the device automatically delivers optimised focussing, depending on dental arch morphology. For volumetric examinations, the operator can rely on 3D assisted centring with Scout View and for all 3D, 2D PAN and CEPH examinations, correct and stable positioning is made easier by laser guides.

Efficient and effective.

- Stable positioning, made easier by the use of 3 laser guides (Focus Free PAN)
- MRT (Morphology Recognition Technology)
- Assisted 3D alignment with Scout View
- Remote Control - Virtual control panel
- Advanced image filters (PiE - 3D SMART)



CONTROL VIA iPad*

Hyperion X5 has a user-friendly graphical interface, also available in the iPad* application. It promotes intuitive control: in a few simple steps you can choose and set up the most appropriate examination based on clinical and anatomical interest.

* must not be used for primary diagnosis.



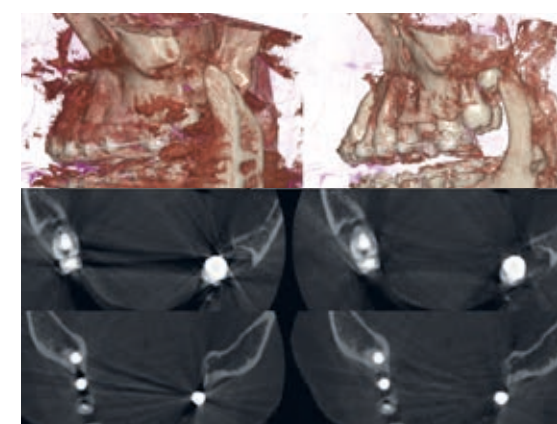
PC INTERFACE

The multi-platform console allows simple and immediate access to all the device's features. The interface guides you step by step through every stage, from examination selection to set-up, with guided positioning of the FOV: for easier, faster and more effective scanning.



2D PiE

Advanced 2D PiE (Panoramic image Enhancer) filters maximise all 2D image rendering. They automatically and selectively optimise the display of the different anatomical regions, making each detail sharper in all captured views - from multiple panoramic imaging to dentition.



3D SMART

The 3D SMART (Streak Metal Artifacts Reduction Technology) feature allows metal-induced artifacts to be reduced in 3D volumes with a fully automatic procedure. Make your volumetric images always usable, even in the presence of amalgam restorations and implants.

Caring for well-being.

Hyperion X5 simplifies your work and promotes the well-being of your patients. Quick scans, ultra-low dose irradiation, procedures that contribute to creating a peaceful and collaborative environment. Easy for you, comfortable for your patient.

Fast scans, low dose irradiation protocols and ergonomic positioning: the best ingredients for your patient's comfort and health.

Hyperion X5 always ensures acquisition procedures that guarantee maximum accessibility and minimised time inside the equipment - making it ideal for paediatric use or for patients with motor impairments. Each phase of the treatment can be shared with the patient in a clear, user-friendly way: this ensures greater patient involvement and their best collaborative attitude and trust in the acceptance of the proposed treatment.

Share and care.

- Ergonomic positioning
- Fast scan
- Low dose
- Quick sharing
- Easy access (also for patients in wheelchairs)

ULTRA LOW DOSE QUICK SCANNING

The advanced QuickScan protocols, available for both 2D and 3D examinations, allow acceptable images to be obtained at lower doses compared to standard image acquisition. They are the ideal tool for post-operative monitoring and the identification of any macro-structures (such as impacted teeth and agenesis).

3D

QUICKSCAN
6,4s

2D

QUICKPAN 6,8s
QUICKCEPH 3,7s



EFFECTIVE GUIDED POSITIONING

Positioning is fast and accurate thanks to an alignment system that projects 3 laser beams directly on to the patient's face, and the ergonomic head support unit equipped with 4/5 contact points ensuring the highest stability during scanning. The large mirror helps positioning while allowing maximum freedom of movement. The patient will always feel at ease.



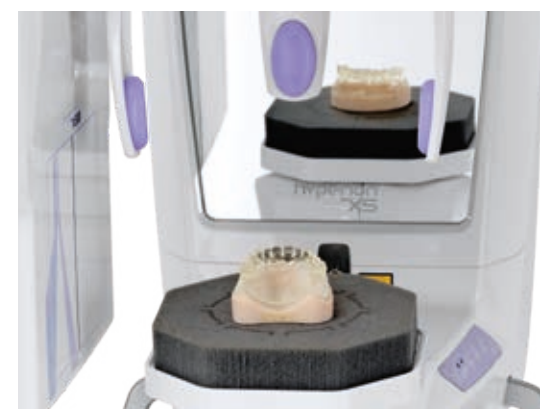
PATIENT COMFORT

During the performance of a CEPH examination, the patient (adult or child) can benefit from a number of procedure-facilitating conditions. The dedicated head support unit is equipped with a height-adjustable forehead support and with side rods available in two sizes - standard for adults and long for children. Soft silicone ear protectors make the patient's experience even more comfortable.



SERVO-CONTROLLED SYSTEM

The Scout View system allows the volume to be centred on the area of interest, keeping the patient in the same comfortable position. From the PC, the operator can see two (sagittal and frontal) views at ultra-low dose irradiation and fine-tune the scanning area, allowing the equipment to reposition itself correctly with very precise servo-assisted movements. This procedure avoids having to repeat the examination.



MODEL SCANNING

Hyperion X5 has a dedicated protocol for scanning prostheses, radiological templates, models and impressions. The operator can position 3D objects on the provided support for quick scanning.

iRYS, simple and versatile diagnoses.

The all-in-one software designed for simple and effective management of 2D and 3D images, with advanced tools and filters for diagnostics and planning.

Equipped with a whole ecosystem of features to view and process data captured during examinations, iRYS makes the diagnostic process easier and helps share images directly from a dedicated workstation to the dental surgery computers and the iRYS Viewer application available for iPad*. With just one click you can send 2D images and 3D volumes to dental practice management software or to advanced design systems (guided implantology, cephalometric tracking, etc.). You will also be able to share examinations with the patients, after providing them with the viewer software (Viewer) directly on CD, DVD or a USB stick.

iRYS is all you need.

- Multi-desktop 2D/3D
- Simplified implant libraries
- Bone quality assessment
- Airway volume analysis
- iRYS Viewer dynamic reporting (APP for iPad*)



iRYS Viewer

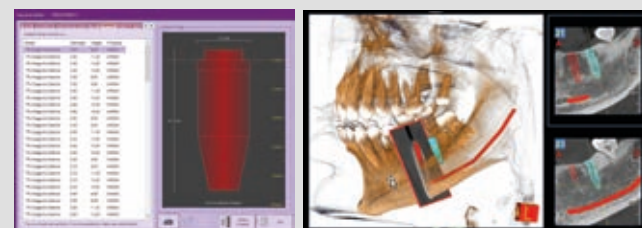


* must not be used for primary diagnosis.



IMPLANT SIMULATION

Best planning of surgical procedures, post-operative course and recovery times with the advanced iRYS feature that provide information on the anatomical structures surrounding the implant site. This feature can be viewed by simply positioning the preferred implants - selected from those available in the software extensive library. You can also modify the options or add new ones in a few simple steps.



MANAGEMENT OF YOUR PATIENTS' 3D/2D SCANS

One software to handle and process 2D and 3D images. The Multi-Desktop system allows quick browsing between the various 2D to 3D views, with realistic rendering and multiplanar analysis. Everything you need to carry out high quality diagnoses and communicate quickly with the patient.



A platform suitable for sharing.

The images acquired and processed with iRYS are compatible with the surgery management software or other processing and storage software. iRYS is DATA PROTECTION certified and IHE compliant with DICOM networks.

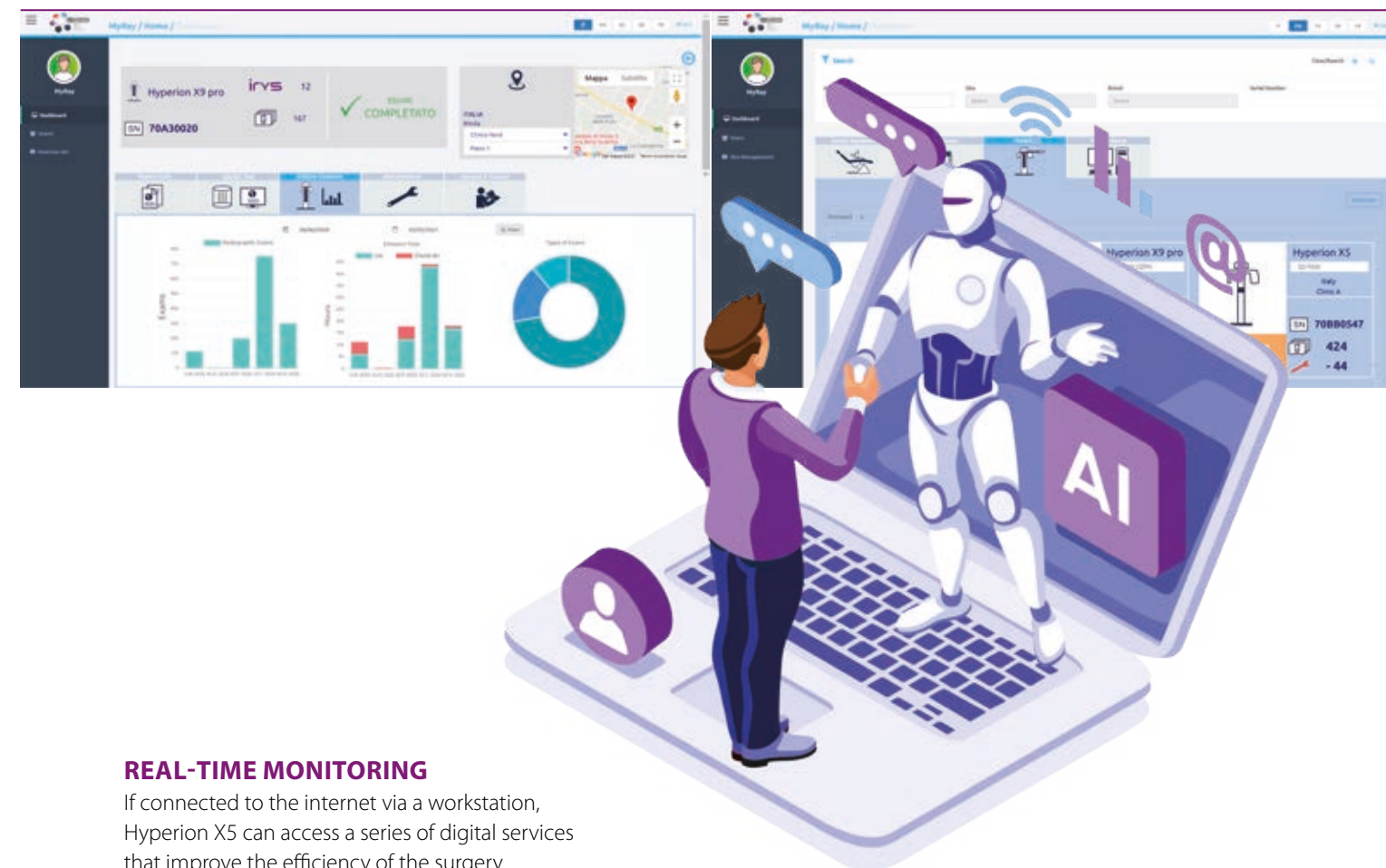
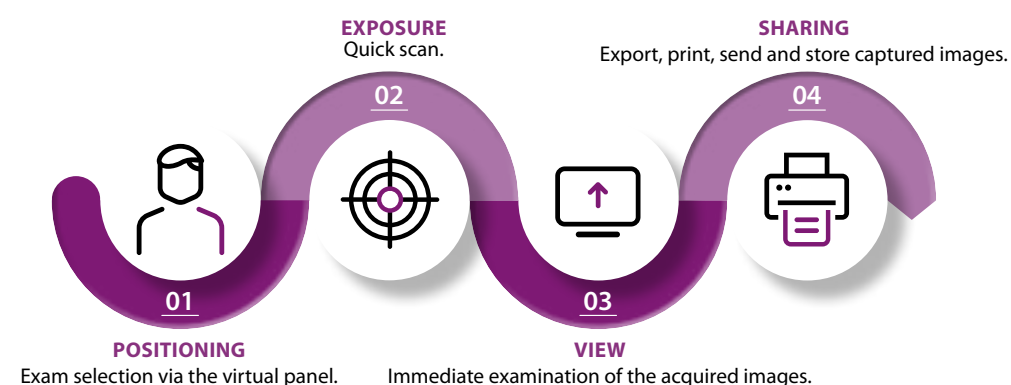
Hyperion X5 offers an innovative, efficient and reliable work experience. A universe of opportunities for your diagnostic requirements and for sharing examination outcomes. The machine perfectly interfaces with advanced patient management and storage systems, thanks to certified DICOM 3.0 standard compatibility. It also allows for remote technical assistance via an Internet connection, for maintenance, troubleshooting or updates, minimising downtime and enhancing efficiency and operational effectiveness.

Share better.

- Ethernet connection
- 1:1 print with report
- CD/DVD with 2D/3D viewer
- DICOM 3.0, TWAIN and VDDS support
- STL interface for CAD (NIP/RealGUIDE)



in according to EN ISO/IEC 17065:2012

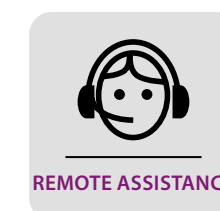
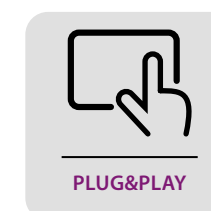
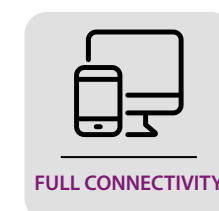
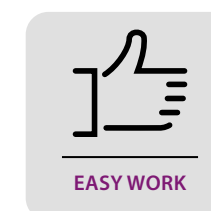


REAL-TIME MONITORING

If connected to the internet via a workstation, Hyperion X5 can access a series of digital services that improve the efficiency of the surgery.

Easy Check lets technical assistance staff monitor the device remotely to obtain real-time information that can be used to diagnose or resolve any issues.

Moreover, **Di.V.A.**, the digital virtual assistant, lets surgery administrators monitor equipment utilisation to gather data and statistics on use. The operating status of all MyRay extra-oral imaging equipment is therefore systematically monitored and geo-located. These services constitute a valuable tool for managing workloads and planning maintenance.



Improves clinical service quality, offering an immediate response to the problem via uninterrupted monitoring of the patient's condition during treatment. Smoother work flow, more relaxed patients.

Connection to DICOM networks is ensured thanks to protocols available with iRYS that allow printing, storage, image retrieval and interfacing with booking lists.

Applications available for iPad to provide Wi-Fi remote control and fast diagnostics. Settings, start and image capture - all at your fingertips.

Software upgrades, problem solving and device diagnosis. Remote maintenance allows for fast troubleshooting without interrupting work flows.

Technical characteristics.

IMAGES	2D	3D
Type	Complete or partial adult and child panoramic imaging*, Orthogonal Panoramic imaging, QuickPAN, MultiPAN, Dentition, Bitewing* Frontal and Lateral (right and left) maxillary sinuses, Temporomandibular Joint (2 x Lateral + 2 x Frontal) open and closed mouth. Teleradiography: Skull AP-PA, LL Short/Long, Standard/Quick; Carpal teleradiography.	Complete examination of the 2 arches in a single scan for adults and children (reduced collimation); Examinations of the maxillary region with maxillary sinuses*; Examination localised in the region of interest.
(Maximum) theoretical resolution on the patient plane	2D: 5 - 6.9 lp/mm (Pixel 100-73 µm) CEPH: 5.6 lp/mm (Pixel 89 µm)	6.3 lp/mm (Voxel 80 µm)
Equivalent radiograph size (cm)	PAN: 26.2 (length) x 14.4 (height) CEPH: 29.2 (length) x 22 (height)	-
Fields of view on patient (cm)	PAN: 21 (length) x 11.5 (height) CEPH: 25.8 (length) x 19.4 (height) PAN Child: 18 (length) x 10 (height) Dentition: 14 (length) x 10 (height) Bitewing: 16.7 (length) x 7 (height)	DENT and SIN*: 10 (diameter) x 10 (height) 10 (diameter) x 7 (height); 10 (diameter) x 6 (height); 8 (diameter) x 7 (height); 8 (diameter) x 6 (height); 8 (diameter) x 10 (height); 6 (diameter) x 7 (height); 6 (diameter) x 6 (height);
Maximum image data size	PAN: 7.5 MB (single image) CEPH: 14 MB	720 MB
Magnification	PAN: 1.2 - 1.3 CEPH: 1.13	1 a 1 (isotropic voxel)
Scan time	PAN: 13.7 s (ORTHO); 12.2 s (STD); 6.8 s (Quick Scan) CEPH: 9.9 s (STD); 3.7s (Quick Scan)	Super HD: 16.8 s (Best Quality) Standard: 9.6 s (Regular) Quick Scan: 6.4 s (Low Dose)
Estimate of typical effective dose (ICRP 103)	PAN: 5 - 9 µSv	FOV: 10x10 35 µSv (Voxel 160 µm) - 121 µSv (Voxel 80 µm) FOV: 6x6 9 µSv (Voxel 160 µm) - 40 µSv (Voxel 80 µm)
Minimum image display times	RealTime	15 s
Advanced filters	PIE (Picture image Enhancer) PAN Focus-Free	SMART (Streak Metal Artifact Reduction Technology)

*Optional vertical collimation on 2D PAN version (included in the base version 2D "Ceph Ready" and 3D)
**3D FOVs 10x10, 10x7, 10x6, 8x10 could be disabled for dento-alveolar applications according to canadian requirements

INSTALLATION VERSION	"AIR" WALL MOUNTED	"STANDARD" FLOOR MOUNTED COLUMN VERSION
Minimum space requirement (L x D)	CEPH Ready version: 872 mm x 983 mm CEPH version: 1785 mm x 983 mm	CEPH Ready version: 872 mm x 1030 mm. CEPH version: 1785 mm x 1030 mm
Package dimensions (L) x (D) x (H) in mm	Box1: 930 x 690 x 960 (Base machine) Box2: 1460 x 350 x 350 (Wall-mounted support) Box3: 575 x 1275 x 380 (Teleradiographic arm)	Box1: 930 x 690 x 960 (Base machine) Box2: 1860 x 355 x 350 (floor-mounted) Box3: 575 x 1275 x 380 (Teleradiographic arm)
Weight	2D version: 78 kg (172 lb) 3D/2D version: 90 Kg (198 lb) CEPH option: 21 kg (46 lb)	2D version: 87 kg (192 lb) 3D/2D version: 99 Kg (218 lb) CEPH option: 21 kg (46 lb)
Accessories	Wall counter-plate	Extra Wall Bracket (avoids floor drilling) Self-supporting PAN or PAN-CEPH base (wall mounting required)

ERGONOMICS	
Examination selection	Procedure guided from virtual control panel on PC and/or iPad
Patient positioning	Suggestion from virtual control panel - Servo-assisted alignment, 3 laser guides (Class 1 - IEC 60825-1) - 3D Scout View
Patient positioning	Efficient 4 contact point 2D version - 5 contact point version, 3D/2D right/left adjustable
Adjustments	2-speed height adjustment drive Keypad on the machine and/or iPad app Servo-assisted alignment: Keypad on the machine or remotely controlled (via Scout View)
Other functions	Multilingual, parking position, remote control
Notes	Easy access for patients in wheelchairs

CONNECTIVITY	
Connections	LAN / Ethernet
Image management software	MyRay iRYS (compliant with ISDP© 10003:2020 in accordance with EN ISO/IEC 17065:2012 certificate number 2019003109-2) and iPad iRYS viewer app (Free), STL (RealGUIDE*)
Supported protocols	DICOM 3.0, TWAIN, VDDS, SDK, CLOUD shared (RealGUIDE*)
DICOM nodes	IHE compliant (Print; Storage Commitment; WorkList MPPS; Query/Retrieve)
Virtual Control Panel	PC and iPad
IOT - Remote Monitoring	DI.VA. WEB-based applications & Easy Check with profiled user access (ISDP©10003:2020 compliant in accordance with EN ISO/IEC 17065:2012 certificate number 2020003704-2)

POWER SUPPLY	
Voltage and frequency	115 – 240 V Single phase 50 / 60 Hz
Maximum current absorbed in working conditions	20 A at 115 V; 12 A at 240 V
Current absorption in standby mode	Maximum 0,5 A (240 V); 1 A (115 V)
Notes	Automatic adaptation for voltage and frequency

*Not available for Canada

2D version

X-RAY GENERATOR	
Generator type	Constant potential (DC)
Anode voltage	2D: 60-85 kV continuous emission 2D PAN* 70 kV : 60-70 kV continuous emission
Anode current	4 mA - 15 mA
Focal spot	0.5 mm (IEC 60336)
Exposure Control	Automatic. MRT (Morphology Recognition Technology)
Maximum continuous anode input power	42 W (1:20 at 85 kV/10 mA)
Inherent filtration	> 2,5 mm Al eq. (at 85 kV)
*Not available for USA/Canada	

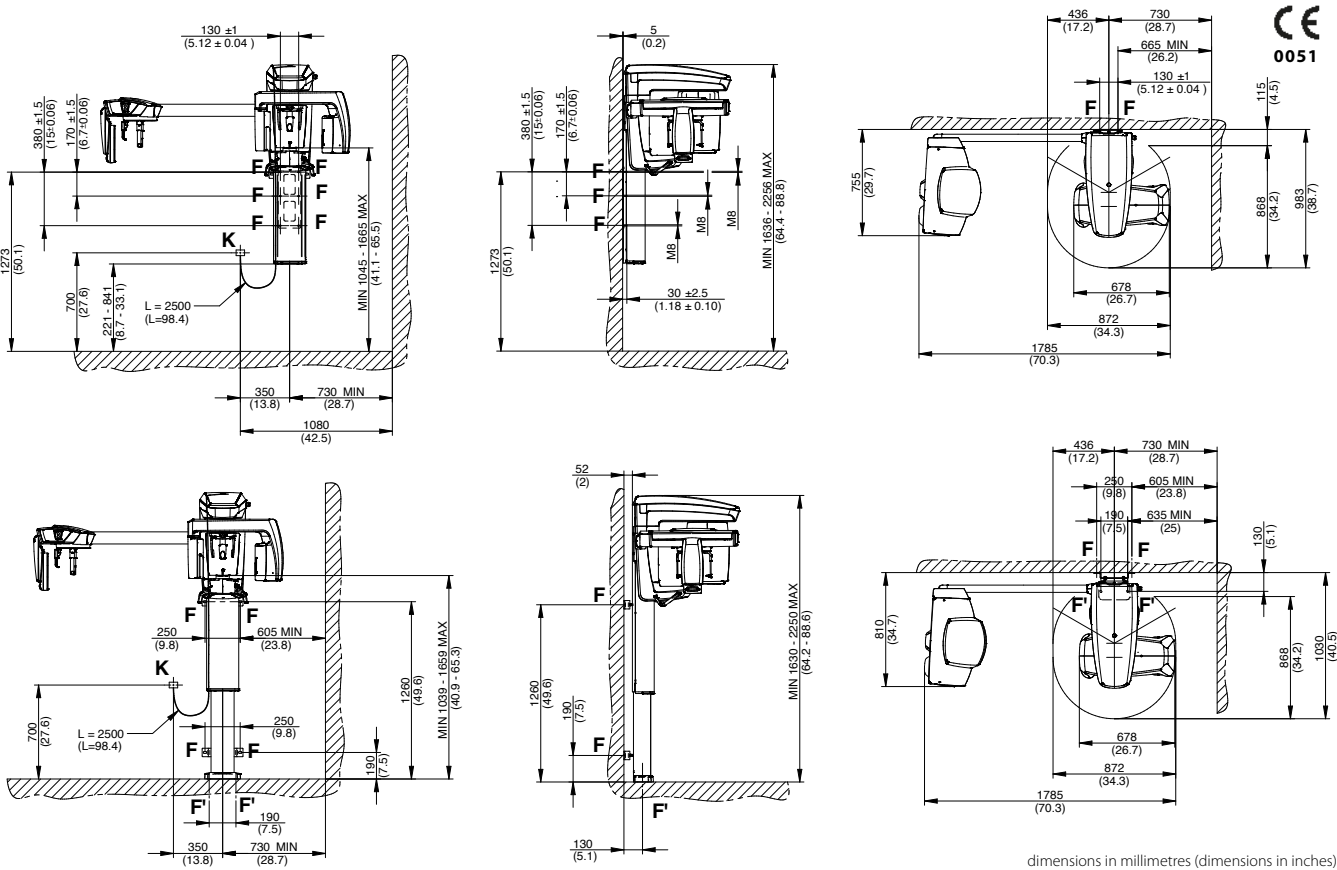
DETECTOR 2D PAN & CEPH	
Detector type	CMOS (Csl)
Dynamic range	14 bit (16384 grey levels)
Height	PAN: 148 mm CEPH: 223 mm

3D/2D version

X-RAY GENERATOR	
Generator type	PConstant potential (DC)
Anode voltage	3D: 90 kV pulsed emission (25% ON - 75% OFF) 2D: 60-85 kV continuous emission
Anode current	4 mA - 15 mA
Focal spot	0.6 mm (IEC 60336)
Exposure Control	Automatic. MRT (Morphology Recognition Technology)
Maximum continuous anode input power	42 W (1:20 at 85 kV/10 mA)
Inherent filtration	2D: > 2.5 mm Al eq. (at 85 kV) 3D: 6 mm Al eq. (at 90 kV) - with automatic da 3.5 mm

DETECTOR 3D/PAN	
Detector type	Amorphous Silicon (Csl)
Dynamic range	16 bit (65536 grey levels)

DETECTOR 2D CEPH	
Detector type	CMOS (Csl)
Dynamic range	14 bit (16384 grey levels)
Height	CEPH: 223 mm



my RAY OF SOLUTIONS



BU MEDICAL EQUIPMENT

SEDE LEGALE ED AMMINISTRATIVA HEADQUARTERS

Cefla s.c.
Via Selice Provinciale, 23/a - 40026 Imola - Bo (Italy)
tel. +39 0542 653111 - fax +39 0542 653344

STABILIMENTO PLANT

Via Bicocca, 14/c - 40026 Imola - Bo (Italy)
tel. +39 0542 653441 - fax +39 0542 653555

CEFLA NORTH AMERICA

6125 Harris Technology Blvd. Charlotte, NC 28269 - U.S.A.
Toll Free: (+1) 800.416.3078 Fax: (+1) 704.631.4609

Hyperion X9 pro

**DC^{III}
READY**

EN

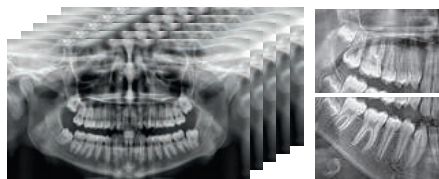
THE 3-IN-1 SYSTEM DESIGNED FOR THE FUTURE

Hyperion X9 pro offers the new 3D technology, cephalometric projections and a wide range of 2D examinations

- Configurable and modular
- Image technology and quality
- Optimal user experience
- Comfort and ergonomics
- Full connectivity

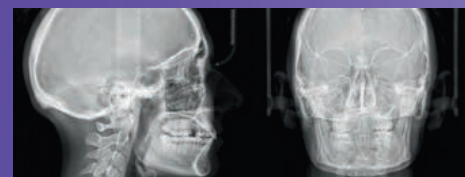
2D/3D high-definition imaging and cutting-edge technology for a complete, upgradable, and small-sized platform. Hyperion X9 pro meets every diagnostic requirement by easily integrating into the work flow and guaranteeing maximum comfort for both patient and operator. Direct Conversion 2D Detector for SuperHD quality images even with very low doses. Always-accurate diagnosis thanks to easy and

completely guided procedures. Full accessibility and user-friendliness with the innovative full-touch control panel and fast Face To Face positioning which guarantees maximum comfort for both patient and operator. The wide scalability and modularity of Hyperion X9 pro lets you change the configuration according to your needs, upgrading from a basic to an advanced version in a simple and cost-effective manner.



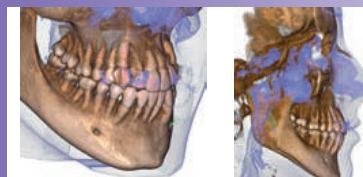
MULTIPAN (MRT)

Panoramic images with 5 to 11 layers (with the latest-generation DC^{III} sensor) with constant magnification and a wide range of 2D programmes to meet even the most specialist requirements. Scans with an extremely high level of details, high orthogonality and specific trajectories to study dentition, temporomandibular joints and maxillary sinuses. Automatic optimisation of dose and acquisition time for adults and children.



FULL CEPH

The improved Hyperion X9 pro telerradiography system offers programmes for every diagnostic requirement. Ultra-high quality images, very short scan times and low radiation doses thanks to the DC^{III} sensor: the very best of cephalometric technology with the smallest operational footprint on the market. Moreover, it's possible to use QuickCEPH postero-anterior latero-lateral mode for surgical follow-ups.



*Optional

CONE BEAM 3D in SuperHD

360-degree 3D imaging with low-dose and ultrafast high-resolution scans: 75 µm on the entire dentition and up to 68 µm by using the exclusive XF* (eXtended Function) feature together with dedicated FOV developed to obtain the best results at all times. Complete dental diagnosis, specific examinations to study the inner ear, assess the upper airways and for ENT applications. SuperHD 9x9 FOV for analysis of the cervical spine.

INNOVATION, POWER AND VERSATILITY

Thanks to its functional and versatile features, Hyperion X9 pro offers full configuration to perfectly suit all your diagnostic requirements

- Easily upgraded to all configurations
- Reversible CEPH arm
- Operates with relocatable 2D sensor or two sensors
- The most compact 3-in-1 system
- Direct conversion 2D sensor

Maximum flexibility for your diagnoses. Hyperion X9 pro is fully configurable and its modular and scalable design makes it possible to transition from a basic to a more advanced version in an easy and cost-effective manner. An extraordinary platform that adapts to the needs of your dental practice thanks to the 2D PAN/CEPH sensor, which can be easily relocated, and

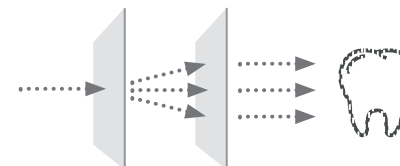
the reversible teleradiographic arm which can be installed on both sides. Moreover, the standard 2D sensor can be replaced with the innovative direct conversion DC^{III} sensor to provide SuperHD images with low doses. The most versatile extra-oral 3-in-1 imaging device on the market. Perfect for ultra-high quality 2D and 3D exams with very low doses.



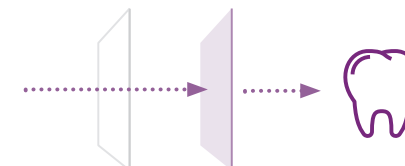
POWERFUL IMAGE ENHANCER WITH DC^{III} (DIRECT CONVERSION) TECHNOLOGY

DC^{III} technology applies the innovative direct conversion sensor that has revolutionised PIE (Powerful image Enhancer) 2D imaging. Standard systems convert X-rays into visible light which is, in turn, converted into electrical signals to create the digital image. With DC^{III} technology, instead, the sensor receives and processes the X-rays directly, resulting in increased sensitivity and efficiency without any loss of detail. This lets users obtain both high resolution images with greater contrast at low doses and extremely detailed images from fast-scan, ultra-low dose protocols such as QuickCEPH or QuickPAN.

STANDARD CONVERSION SENSOR



DIRECT CONVERSION SENSOR



EXCEED EVERY EXPECTATION

The extraordinary details of 3D imaging for your high-resolution examinations

- Multi FOV from 4 x 4 to 13 x 16 cm
- Upgraded generator
- Extremely high resolution (up to 68 μm)
- Fast CB3D scan (as brief as 3.6 s)
- Low dose

3D imaging takes diagnoses to a higher level, an essential dimension to give more value to your job. Thanks to a wide range of fields of view (from 4 x 4 up to 13 x 16 cm), Hyperion X9 pro is the ideal tool to meet all your clinical needs, from the analysis of tooth structures to the examinations of temporomandibular joints and ENT applications. Moreover, the new FOV 9 x 9 cm allows you to frame the cervical spine.



DOUBLE DENTAL ARCH SCAN AT 75 μm

FOV with a 10 cm diameter, also essential for reliable acquisition of the complete roots of impacted third molars and height up to 10 cm. At an exceptional resolution of 75 μm , Hyperion X9 pro provides, with a single acquisition, images of the entire dentition and the surrounding bone structures. The perfect tool to plan multiple implants, also with the use of surgical guides.

FULL AIRWAYS

The 13 x 16 cm FOV captures the complete upper airways in one single examination. Detailed view of the entire dentition, maxillary sinuses and upper airways, so as to clearly identify possible signs of narrowing and correctly diagnose obstructive sleep apnea syndromes (OSAS).

REACH A NEW LEVEL

Simple and versatile, but also technologically advanced. Hyperion X9 pro integrates extraordinary innovations that bring the future of 3D diagnostics to your clinic

- A powerful generator and advanced cooling for maximum productivity
- Ultra-sensitive 3D sensor
- 360-degree CBCT scan
- FOV height projection with laser beam on patient
- 3D patient monitoring and positioning cameras (X-Ray Free)

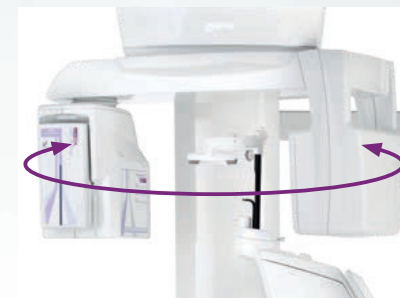
State-of-the-art technology for 3D diagnostics in your practice. Hyperion X9 Pro features an upgraded generator - designed to deliver optimal results in the shortest possible time - and a high-sensitivity 3D sensor that provides excellent images with low X-ray doses. Combined with optimised scanning protocols, this latest technology provides resolutions as high as 68 μm . The integrated cooling system prevents overheating, thus maximising the number of scans per day. Laser beams let users perform direct, precise, on-patient selection of the most suitable FOV height or check whether the selected FOV is suitable prior to exposure. The new Interactive Reality View (optional) system includes up to

two video cameras and an intercom for remote PC monitoring and communication with the patient; in the 3D version, the FOV Interactive View system also allows for augmented reality support for choosing a size of the FOV and for its positioning, acting directly on the photographic images displayed on the machine control panel.



FAST 360-DEGREE SCAN

The main advantage of 360-degree scanning is a considerable reduction of artifacts. Hyperion X9 pro combines this type of acquisition with extremely fast execution times. In just 14" it is indeed possible to carry out complete high-resolution examinations at low X-ray doses: excellent quality, detailed particulars, fast diagnosis.



UPGRADED GENERATOR

The constant potential generator, equipped with a focal spot of just 0.5mm, optimises exposure thanks to the pulsed emission technology thereby ensuring the best results with the lowest irradiated dose. Can be equipped with an integrated cooling system that allows up to twice as many scans in one day.



WIDE 3D CONTROL PANEL

The technologically-advanced 3D control panel stands out for its exceptional sensitivity which allows for extremely detailed examinations. Volumes of complete dentition and upper airways in SuperHD quality for accurate diagnoses at all times.



SuperHD DIAGNOSIS

MultiFOV and high resolution: wonderful 3D images for all your radiology needs

- MultiFOV
- 3 protocols each FOV
- DENT: Implantology, Orthodontics, Gnathology, Endodontics
- ENT: ear, nose, throat, sinuses
- MSK: open/closed-mouth TMJ and cervical vertebrae

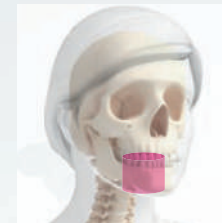
A wide range of FOV to meet any clinical requirement: from implantology to the measurement of airway volumes, from endodontics to oral surgery. All the FOV, from the smallest to the largest, are available in three execution modes to suit every need. Just a few steps are required to identify the most suitable setting according to the selected anatomical region. The innovative selection between the three dedicated modes allows the operator to carry out examinations based on the actual diagnostic needs and with extreme ease:

QuickSCAN Faster low-dose scans for post-surgery follow-ups and macro-structure analyses.

Standard mode Primary diagnosis and treatment planning. The best balance between dose and quality.

SuperHD Exceptional level of detail, without compromise. Ideal for the analysis of micro-structures.

MULTIPLE FOV



FOV 6 X 6 CM

6 cm height to view sectors along the dental arch. Scan only the area you are interested in: hemiarches or frontal zones, without excluding the occlusal area or the base of the mandible, thereby reducing the patient's dose to the patients.



FOV 4 X 4 CM (XF*)

The highest resolution available on the market at your disposal. Captures every detail up to 68 µm and brings your work to a higher level. Possibility to perform very low-dose analyses in ultrafast scanning (only 3.6s) for easier 3D morphological studies in real time.



FOV 10 X 8 CM

With one single acquisition, Hyperion X9 pro shows the entire dentition of adult patients, including the roots of impacted third molars, in very low-dose with 6.4s ultrafast scanning or in high resolution up to 75 µm.



FOV 13 X 16 CM

Widen your outlook, expand your diagnosis: from the inferior and superior dental arch to the maxillary and frontal sinuses. Get complete information in one volume that includes upper airways, nose and throat. Obtain a more thorough assessment of the case.

*Optional

ENT

ENT EXAMINATIONS

- Ear: 7 x 6 cm (XF*) – Voxel 68 µm
- Nose and maxillary sinuses: 13 x 8 cm
- Mouth and Throat: 13 x 10 cm
- Complete upper airways: 13 x 16 cm

DENT

DENTAL EXAMINATIONS

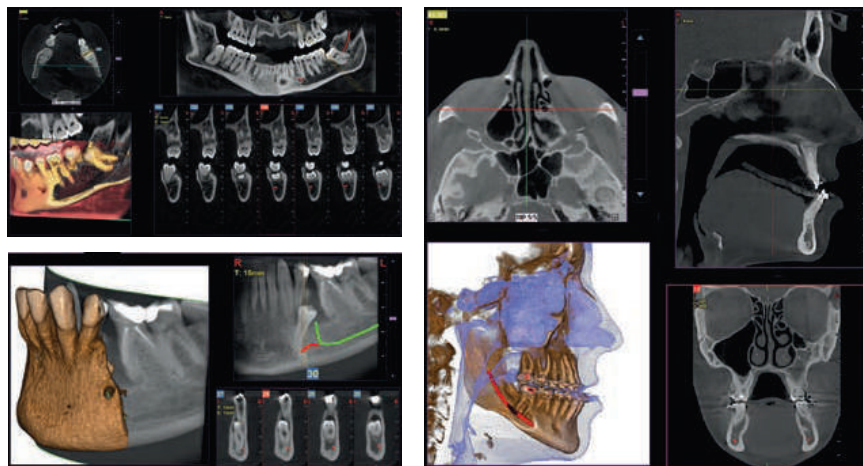
- ADVANCED**
- Dentition up to frontal sinuses: 13 x 16 cm
 - Ascending mandibular branches: 13 x 10 cm
 - Zygomatic arches and sinuses: 13 x 8 cm
 - Maxillary sinuses: 10 x 10 cm
 - Teeth: 4 x 4 cm (XF*)
- BASIC**
- Complete dentition, adult: 10 x 8 cm
 - Single dental arch, adult: 10 x 6 cm
 - Complete dentition, child: 8 x 8 cm
 - Single dental arch, child: 8 x 6 cm
 - Hemiarch or anterior dentition: 6 x 6 cm

MSK

ORTHOPAEDIC EXAMS

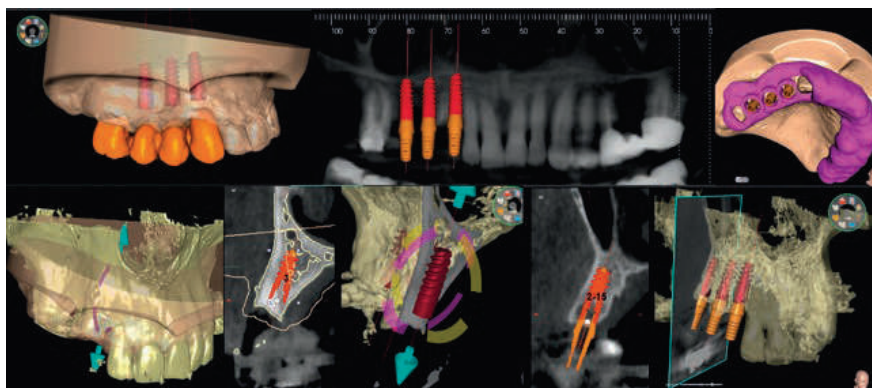
- TMJ: 7 x 6 cm (XF*) open mouth/closed mouth
- Cervical spine: 9 x 9 cm (XF*) - Voxel 68 µm

3D. CLINICAL CASES



Orthodontic applications

FOVs with a 10 cm diameter are essential for the study of impacted third molars because, in an adult of medium build, the distance between the third molars on the left and right, including the respective roots, the alveolar process and the surrounding bone, is at least 9 cm. Reduced fields of view are useful when analysing impacted or supernumerary teeth in order to restrain the dose to the region of interest. For a correct treatment planning it is indeed crucial to determine the actual position (vestibular or palatal). This is only possible with a 3D analysis, even at a very low dose, with the QuickSCAN protocol. The complete 13 x 16 cm field of view allows for an accurate assessment of the upper airways, which is often useful to complete the investigation for an orthodontic treatment that does not neglect ENT problems.



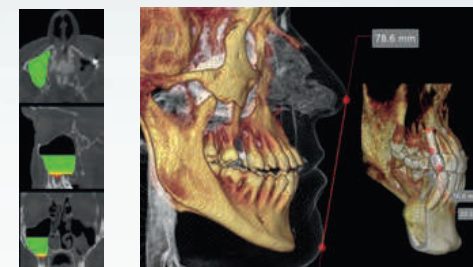
Advanced implant planning

Position the equipment directly on the 3D model, combine it with the STL data from intraoral scanners and define the final prosthetic project. With the advanced implant planning tools* you will be able to operate safely thanks to accurate information on the amount of bone and the distance from the surrounding anatomical structures, such as the mandibular canal, defining a minimum safety distance.

Volume analysis

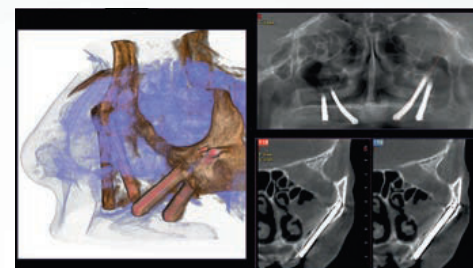
The software feature for the assessment of the sinus floor lift volume allows for an early planning of the intervention and for a perfectly safe procedure.

It is also possible to trace lines directly on the virtual model of the patient thereby assessing morphological relations on the 3D rendering.



Assessment of zygomatic implants

Volumes with 13 x 8 cm or 13 x 10 cm FOV are the perfect tool for zygomatic implant planning as the 13 cm diameter is the only one that makes it possible to include the entire zygomatic arch, without cuts.



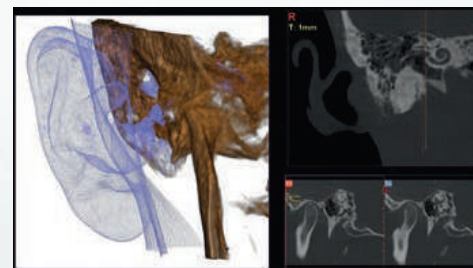
Endodontic examination

Treatment of the mandibular canal and identification of micro-fractures and root resorption: the exceptional 68 µm resolution, unique to Hyperion X9 pro, brings your diagnoses to a higher level.



View of the inner and middle ear

The dedicated 7 x 6 cm FOV at 68µm* provides a clear and detailed view of all the structures in the inner and middle ear, such as the round window, the semi-circular canal and the ossicular chain.



CAPTURE EVERY DETAIL

High-definition images, extremely sharp details, upgraded MultiPAN system for maximum results in every situation

- Dedicated 2D sensors: DC^{III} (Cd-Te) and/or (CsI)
- Ultra-high orthogonality and constant magnification
- Variable collimation
- Broad depth of field
- PIE (Powerful Image Enhancer) filters

The 2D sensor is easily relocated and interchangeable. You can choose, immediately or at a later date, between the STANDARD CMOS (CsI) sensor which generates sharp, uniform, high definition images while keeping doses low, or the revolutionary, even higher-performing CMOS (Cd-Te) direct conversion (DC^{III}) sensor that provides ultra-high resolution images at ultra-low doses and optimises Hyperion X9 pro performance.

Fast panoramic image acquisition with high orthogonality reduces overlapping of adjacent teeth and shows the structures to be examined in a clear and distinct manner. The wide range of focal layers makes it possible to capture detailed images along the entire dental arch. In order to optimise scan times and patient's exposure, each type of image is acquired with dedicated trajectory and collimation.



MULTIPAN SuperHD

Hyperion X9 pro provides clear and detailed panoramic images at all times. With just one single scan, the exclusive MultiPAN function can generate, with X-ray exposure times/doses on a par with those of traditional panoramic imaging, 5 focusing layers (or up to 11 with DC^{III} technology) from which to select the most suitable for your diagnostic needs.



ADVANCED KINEMATICS

Hyperion X9 pro provides you with the most advanced imaging technology. It is indeed equipped with perfectly synchronised kinematics featuring one rotary movement and two simultaneous translatory movements that ensure constant magnification in all projections. The scans are always in focus thanks to the optimised focal trough which follows the patient's morphology.



Hyperion X9 pro	High-end competitor
Constant magnification	Uneven magnification
1 rotary movement and 2 simultaneous translatory movements	1 rotary movement and only 1 simultaneous translatory movement

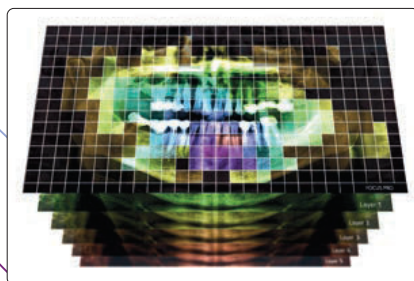
DISCOVER A WORLD OF EXAMINATIONS

Optimized 2D programmes for unparalleled panoramic and cephalometric images

- Rapid orthogonal panoramic X-ray
- QuickPAN (Adult & Child)
- Segmentation of the areas of interest
- DENT Bitewing in SuperHD
- Multi-angle TMJs
- SIN Maxillary and frontal

Hyperion X9 pro provides optimal 2D trajectories for unparalleled imaging. Besides standard panoramic X-rays, you can perform orthogonal dentition projections and bitewing exposures focused on dental crowns. It is possible to segment the dentition area and limit the scanning zone to the region of interest in order to keep the X-ray dose low. Examinations of the temporomandibular joints are available both in postero-anterior and latero-

lateral projections, with acquisitions also from multiple angles. Broad and accurate scanning, including of maxillary sinuses, make it possible to study the upper airways and better plan sinus lift surgeries. The QuickPAN feature allows to minimise scan times for faster examinations improving patient comfort. The new DC^{III} sensor improves depth of field and the resolution of each detail.



iPAN function

Allows you to automatically obtain a single panoramic image by merging the layers generated with the MultiPAN function and selecting the most in-focus portions of each of them.

PAN

PANORAMIC EXAMINATIONS

- HD panoramic X-ray and QuickPAN
- MultiPAN SuperHD with 5 layers (with STD sensor) or up to 11 (with DC^{III} sensor)
- Full and reduced panoramic X-ray for children
- Orthogonal projection for the whole dentition (reduces the overlapping of dental crowns)
- Segments of dentition with optimised dedicated projections
- Bitewing exposures in 4 segments limited to the crowns, so as to highlight interproximal cavities

TMJ

TMJ EXAMINATIONS WITH OPEN OR CLOSED MOUTH

- Latero-lateral projection of a single TMJ from multiple angles (x3)
- Postero-anterior projection of a single TMJ from multiple angles (x3)
- Latero-lateral projection of both TMJs
- Postero-anterior projection of both TMJs

SIN

EXAMINATION OF THE MAXILLARY SINUSES

- Frontal or left/right side view of the maxillary sinuses



OPTIMISE EVERY PERSPECTIVE

High performance, ultrafast scans and a complete selection of cephalometric projections. Choose the examination that best suits your diagnostic requirements

- Minimum bulk
- Ultra-rapid scan
- Variable field of view and FULL CEPH positioning
- Dual sensor available, also PAN DC^{III} & CEPH STD combi
- Postero-anterior and latero-lateral QuickCEPH

Hyperion X9 pro modular platform allows to add the teleradiography module at any time and with extreme ease. Its cephalometric arm is a true engineering masterpiece. Besides being the most compact system on the market, it is also reversible: it can be mounted either on the left or on the right, and, if space

requirements change, Hyperion X9 pro CEPH changes with you. The relocatable latest-generation PAN/CEPH sensor, combined with an upgraded generator, guarantees excellent performance in any application. Select the exam that best suits your diagnostic needs choosing between ultrafast or high-quality scan.

CEPH

TELERRADIOGRAPHIC EXAMINATIONS

- Latero-lateral SuperHD projection (with DC^{III} sensor)
- Latero-lateral projection with selectable scan length, HD or QuickCEPH
- Paediatric latero-lateral projection with reduced height, short scan and low dose
- FULL CEPH projections with reduced thyroid exposure and inclusion of skullcap in children
- Antero-posterior or postero-anterior projections
- QuickCEPH antero-posterior and postero-anterior projections (with DC^{III} sensor)
- Carpus projection



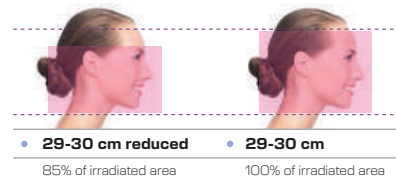
SMART COLLIMATION

Thanks to the patented primary servo-controlled collimator, it's possible to select the exact area to expose to the X-rays. The patent-pending secondary collimator for teleradiography projections is integrated into the rotating module and allows for an easy access with minimum footprint.



FULL CEPH

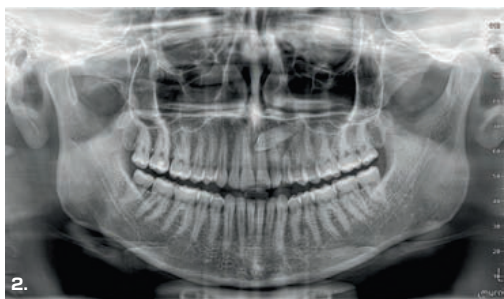
Hyperion X9 pro adapts perfectly to the examination of children and adult patients. In particular, the FULL CEPH positioning for children reduces exposure of tissues beneath the chin (and therefore the effective dose) and prevents contact between the sensor and the shoulders. Hence the operator can include, when possible, the skullcap.



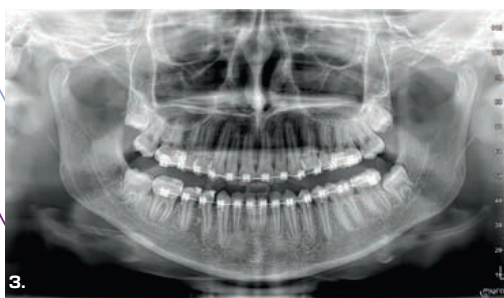
2D. CLINICAL CASES



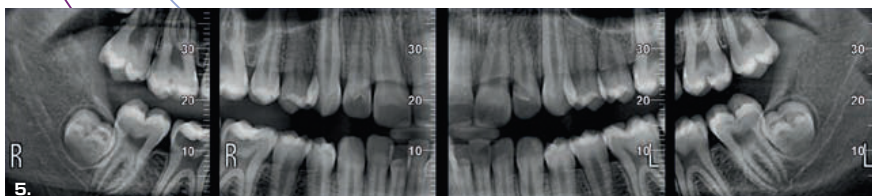
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2.



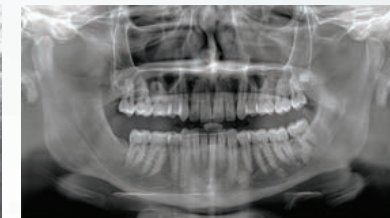
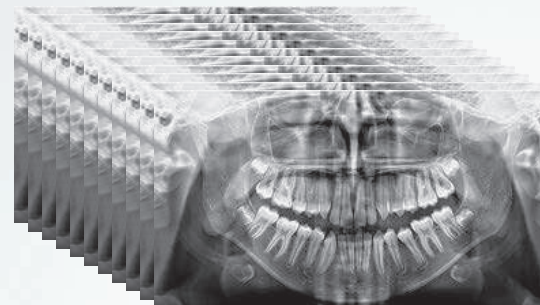
3.



4.

Dental panoramic radiographs

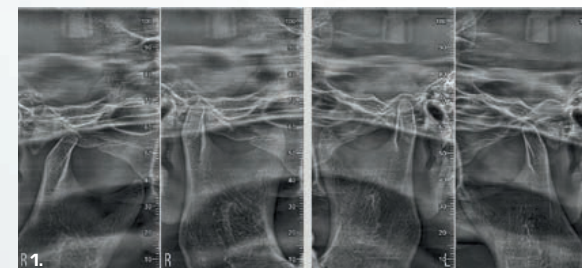
- 1. Orthogonal panoramic X-ray:** minimises the overlapping of adjacent teeth and provides better periodontal analysis.
- 2. Fast panoramic X-ray:** low dose and reduced scan time, perfect for primary investigations, follow-ups or uncooperative patients.
- 3. Child panoramic X-ray:** limited exposure and optimised parameters for fast paediatric examinations.
- 4. Complete dentition divided into quadrants:** localised investigations with selectable segmentation to limit the irradiated dose.
- 5. Bitewing projections limited to crowns:** high resolution and low dose, a comfortable alternative to intraoral imaging, appreciated by patients with a strong gag reflex.



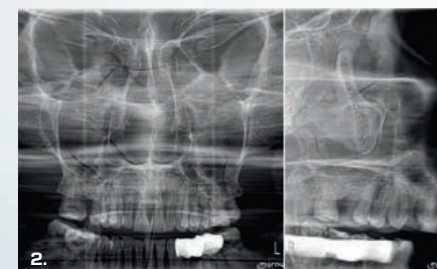
MULTIPAN SuperHD up to 11 layers

Innovative DC[®] technology, which improves depth of field and increases contrast - and therefore real resolution power - lets users obtain SuperHD panoramic images from extremely extensive datasets to provide an 11-layer MultiPAN. Highly useful in the case of complex morphologies.

The iPAN function lets you automatically obtain a single panoramic image by merging the most-in-focus layers generated by the MultiPAN.



1.



2.

Extraoral tomography

- 1. Temporomandibular joints:** right and left, with open or closed mouth, and in latero-lateral and postero-anterior projections with multi-angle projection.
- 2. Maxillary sinuses:** frontal or left/right side view, with optimised trajectory.

CEPH. CLINICAL CASES

Standard HD Teleradiography

1. **Latero-Lateral:** highlights bone details and soft tissues, essential for cephalometric studies.
2. **Antero-Posterior:** to investigate asymmetries and malocclusions for a correct treatment.
3. **Carpus:** for residual growth assessment, possible with dedicated support.



Super HD (DC™) Teleradiography

Direct conversion acquisition with the DC™ sensor provides SuperHD teleradiography images of exceptional quality with a higher contrast levels and lower doses/times than standard cephalometric exams. Moreover, extreme sensor sensitivity lets you perform very fast QuickCEPH exams in Postero-Anterior projection, characterised by good image quality and ultra-low doses. Perfect practicality for post-op checks or paediatric exams.



OPTIMISED WORK FLOW

Hyperion X9 pro optimises your work, adapts to your needs and allows to focus on what's really important: your diagnoses

- MRT technology
- Multi-platform control panel
- Guided work flow
- Focus-Free PAN
- 3D Free-FOV Interactive View* (Augmented Reality)

Hyperion X9 pro provides advanced features and tools to improve your work flow. The user-friendly interface guides the operator step by step throughout the entire exam preparation and acquisition process. The equipment and the 2D image display can be managed through the on-board full-touch control panel, from the virtual control panel or through iPad*-specific applications, thereby providing maximum versatility. The exclusive Morphology Recognition Technology (MRT) allows the operator to obtain clear and defined images without manually setting the exposure parameters,

since they are automatically adapted to the patient's anatomical features. Thanks to the MultiPan acquisition and to the unique Focus-Free feature, the device automatically returns the best focal layer according to the dental arch morphology.



*The positioning system that uses virtual guidelines temporarily disables the laser lights.

CONTROL VIA iPad*

User-friendly graphics and direct controls make your work easier, ensuring a more relaxing patient experience. Hyperion X9 pro is equipped with a user-friendly interface, also available in the iPad*-specific application, for an easy and intuitive control. In few simple steps you can choose and set up the most appropriate exam based on the clinical and anatomical relevance.



PC INTERFACE

The multi-platform control panel gives you easy and immediate access to all the device features. The interface guides you step by step, from the exam selection to its preparation, with FOV guided positioning. The result is easier, faster and more effective examinations. Additionally, through the Remote Reality View system it is possible to monitor the patient in real time.



FULL-TOUCH 10" CONTROL PANEL

Hyperion X9 pro is characterised by the simplicity of use and the rapidity of procedures, such as the possibility to choose predetermined programmes directly from the homepage. The control panel interface provides precise instructions on the patient's positioning depending on the selected protocol, and the FOV Interactive View option allows the size and position of the scan area to be redefined directly on the patient's photo frame.



* must not be used for primary diagnosis.

TECHNOLOGY AT THE SERVICE OF WELL-BEING

Hyperion X9 pro allows you to offer your patients the best conditions for effective examinations in a serene and cooperative environment

- Ergonomic positioning
- Fast scan
- 2D with DC^{III} technology (ultra-low dose)
- 3D with intermittent emission
- Fast sharing

Fast scans, low X-ray dose protocols and ergonomic positions: the best ingredients for your patient's comfort and well-being. Hyperion X9 pro always offers acquisition procedures that guarantee maximum accessibility and minimum permanence inside the equipment, thereby simplifying its use with children or patients with motor disabilities. During the 3D scan, X-ray emission is intermittent in order to limit the dose. Moreover, since it bypasses conversion from X-rays to

visible light, the 2D sensor with DC^{III} technology provides images that, dose remaining equal, offer greater than standard contrast, even with quick scans. Through the iRYS Viewer app for iPad*, you can also share every step of the treatment with your patient in a clear, intuitive and easy-to-understand manner. A greater involvement of the patient leads to maximum cooperation and trust in the proposed treatment.

* must not be used for primary diagnosis.

GUIDED AND EFFECTIVE POSITIONING

Face to Face positioning ensures freedom of movement and comfort. It is also fast and precise, thanks to an alignment system that projects 4 laser beams onto the patient's face, with an indication of the 3D FOV height. In addition to the standard head support with 7 contact points, which maximises stability, there's now the new Face-Free head support (less claustrophobic) and new anatomical bite: this guarantees correct positioning, ensuring better image quality and consistency even with edentulous patients.



SERVO-CONTROLLED SYSTEM

Through the Scout View system it is possible to centre the volume on the area of interest, while the patient can remain in the same comfortable position. From the PC, the operator can view the two images (sagittal and frontal) at very low irradiation and accurately modify the scanning area letting the equipment, supplied with servo-assisted movements, find the correct position. This procedure eliminates the risk of having to repeat the examination.



QUICK LOW-DOSE SCAN

Thanks to advanced QuickSCAN protocols, available for both 2D examinations and 3D acquisitions, it is possible to obtain acceptable images with lower doses as compared to a standard acquisition. These protocols are the ideal tool for post-surgery check-ups and for the identification of any macro-structures (such as impacted teeth or dental agenesis). More specifically, thanks to DC^{III} technology – which, dose remaining equal, optimises contrast on 2D images – it's also possible to have higher quality QuickPAN and QuickCEPH images.

3D

QUICKSCAN
3,6 - 6,4s

2D

QUICKPAN 6s
QUICKCEPH 3,2 -3,3s

ADVANCED, RELIABLE, iRYS

The best all-in-one software platform for 2D and 3D imaging. iRYS is DATA PROTECTION certified and IHE compliant with DICOM networks

- Multi-desktop 2D/3D
- Implant simulation
- Compatibility with third parties' software
- Sharing with 2D and 3D image viewer
- iRYS Viewer for iPad*

A state-of-the-art tool equipped with a complete ecosystem of features to view, process and share examinations directly from the dedicated workstation, with the computers of the dental practice and with the iRYS Viewer* application available for iPad*.

With one click you can send 2D images and 3D volumes to the

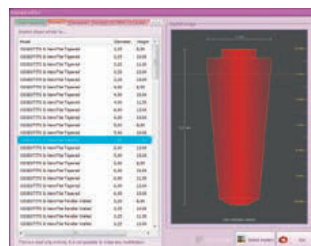
management software of the practice or to advanced planning systems (guided implantology, cephalometric tracing, etc.). You can share the examinations with your patients by giving them the viewing programme (Viewer) directly on CD, DVD or USB flash drive. iRYS, the platform that meets all your diagnostic requirements.



in according to EN ISO/IEC 17065:2012

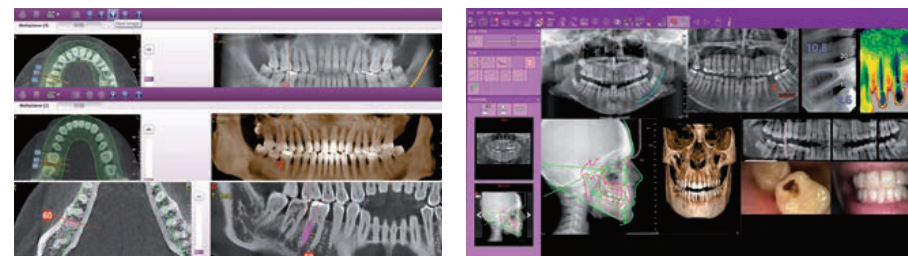
PRELOADED IMPLANT LIBRARIES

iRYS facilitates the selection and positioning of implants chosen among those contained in its extended library. It is also possible to change them or add new ones in just a few simple steps.



MULTI-DESKTOP 3D/2D

One software to handle 2D and 3D images. The Multi-Desktop system allows for rapid browsing the different 2D and 3D views, with realistic rendering and multipanar panoramic analysis. Everything you need to carry out high quality diagnoses and communicate quickly with the patient.



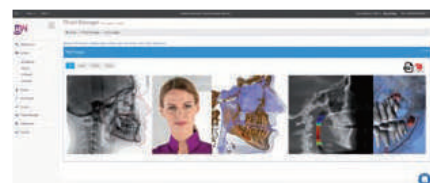
A COMPLETE SET OF TOOL FOR YOUR DIAGNOSES

Simple and efficient diagnosis and planning thanks to the best protocols and the iRYS software filters

- Evolved image filters (SMART)
- 2D Powerful image Enhancer (PiE)
- Bone quality assessment
- Airways volume assessment
- Interconnected with specialist services

Being an advanced and reliable platform, iRYS provides you with a set of tools for diagnosis and treatment planning that delivers maximum performance at all times. Among them, the exclusive filters to improve image definition and detail level, as well as the features to assess

bone quality and analyze airway volume. Moreover, iRYS can be interfaced with your surgery management system and other specialist services/ software via SDK to ensure optimal results with the greatest simplicity.

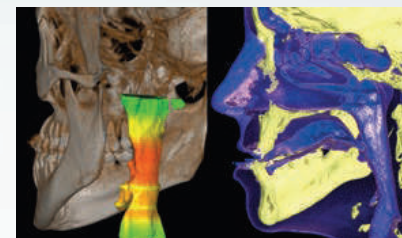


INTERCONNECTED

iRYS software allows for the immediate sharing of 2D or 3D images on the **CephX*** cloud server. It also gives access to A.I. services such as automatic cephalometric tracing, segmentation of the anatomical areas of the volume, or airways analysis.

AIRWAY VOLUME

iRYS allows to evaluate the upper airways volume in order to investigate possible disorders in the ENT district. This feature is also particularly useful to plan sinus lift surgery in the event of zygomatic implants or for the preliminary assessment of obstructive sleep apnea (OSA).



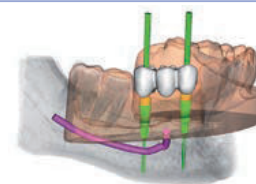
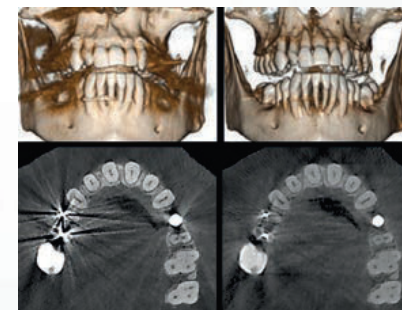
2D PiE

The advanced 2D PiE (Powerful image Enhancer) filters allow to maximise 2D image rendering by automatically and selectively optimising the display of different anatomical regions and by making every acquisition detail clearer, from multiple panoramic images to dentition.

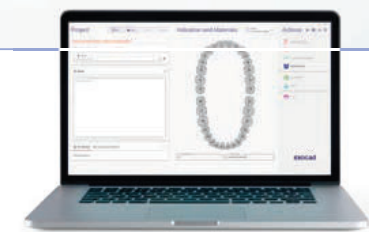


3D SMART

The intelligent 3D SMART (Streak Metal Artifacts Reduction Technology) feature reduces the presence of metal-caused artifacts in 3D volumes through a completely automatic procedure. Make your volumetric images usable at all times, also in the presence of implants and amalgam restorations.



RealGUIDE* - a communication software platform integrated with iRYS - lets you develop and share prosthetically guided implant surgery projects with clinicians, radiologists, dental technicians and patients. **Exoplan***, the exocad CAD software for implant surgery, offers precise, safe, fully integrated



planning, from diagnosis to the surgical guide. Exocad **Smile Design***, instead, lets you create highly personalised digital smile simulations, improving communication with the patient and the lab. A user-friendly interface streamlines aesthetic treatment planning, ensuring speed and high quality.

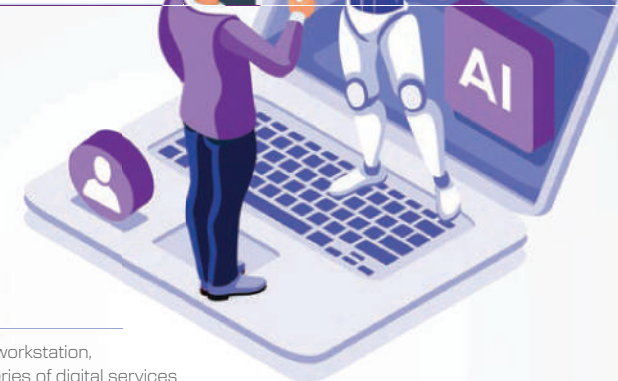
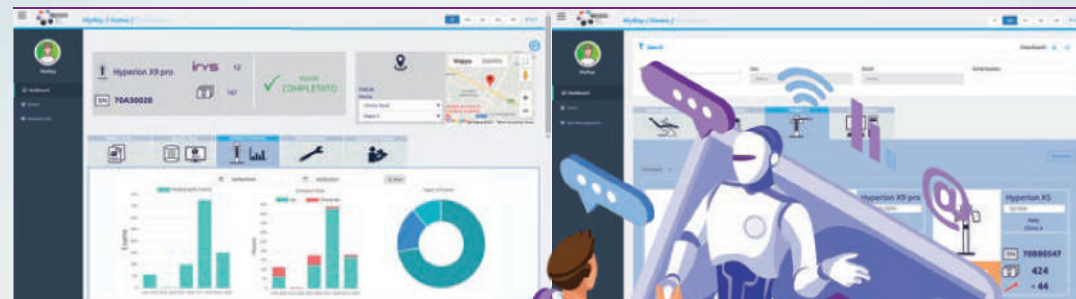
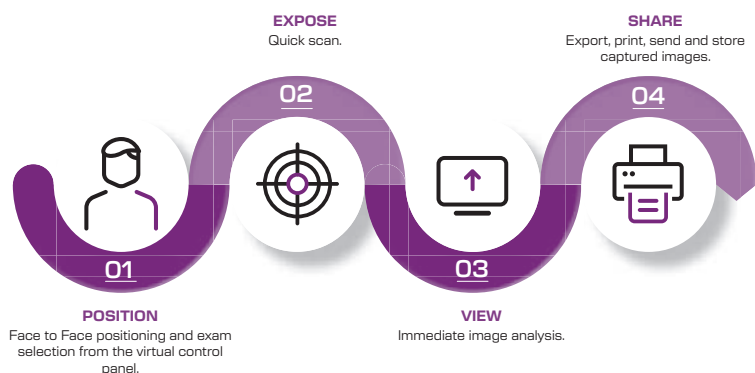
HYPERION X9 PRO, FULL SHARING

An innovative, easier and more efficient concept of work flow.
A platform that perfectly suits your working method

- DICOM compatibility
- TWAIN connectivity
- RIS/PACS interface
- Controlled maintenance
- Remote monitoring

Hyperion X9 pro offers you an innovative, efficient and reliable work experience.
A universe of opportunities in diagnosing and examinations sharing.
The machine interfaces perfectly with advanced patient management and storage systems, thanks to its DICOM 3.0 certified compatibility.

It also makes it possible to carry out remote support operations, provided an Internet connection is available, for maintenance, troubleshooting and updates, thereby minimising downtime and maximising operational efficiency and effectiveness.



REAL-TIME MONITORING

If connected to the internet via a workstation, Hyperion X9 pro can access a series of digital services that improve the efficiency of the surgery.

Easy Check lets technical assistance staff monitor the device remotely to obtain real-time information that can be used to diagnose or resolve any issues.

Moreover, **Di.V.A.**, the digital virtual assistant, lets surgery administrators monitor equipment utilisation to gather data and statistics on use. The operating status of all MyRay extra-oral imaging equipment is therefore systematically monitored and geo-located. These services constitute a valuable tool for managing workloads and planning maintenance.



EASY WORK



FULL
CONNECTIVITY



PLUG&PLAY



REMOTE
ASSISTANCE

Improve the quality of the clinical service, offering an answer to the problem in real time by uninterruptedly monitoring the patient's state of health during the treatment. Flowing work results in more serene patients.

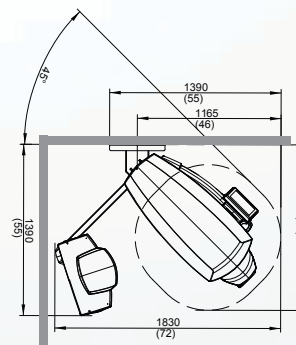
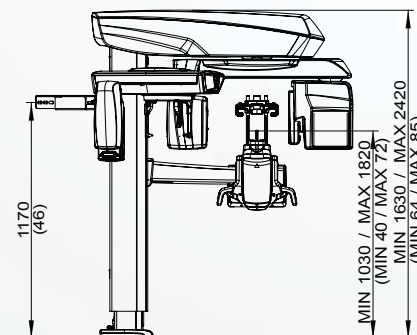
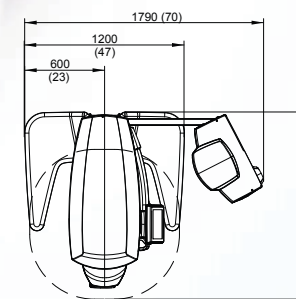
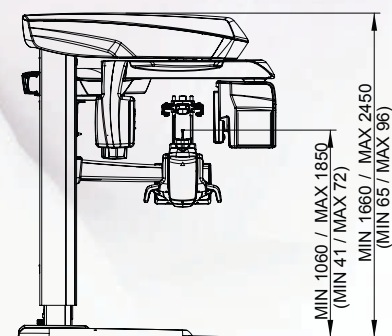
iRYS features ensure the DICOM network connection and allow to print, archive and retrieve images and to interface with booking lists.

Apps available for iPad* for WiFi remote control and quick and easy diagnostics. Set-up, start and image acquisition are all at your fingertips.

Software updates, troubleshooting and device diagnostics. Remote maintenance allows for timely interventions without downtimes.

3D IMAGES		FOV 10x8 VERSION		FOV 13x16 VERSION	
Detector technology		Amorphous silicon - CsI with direct deposition			
Dynamic range		16 bit (65,536 grey levels)			
Typical scan time		14.4 s			
Rotation		360°/180°			
Image voxel size		Minimum 75 µm		Minimum 68 µm	
Available FOV sizes (Øxh)		6x6 - 8x6 8x8 - 10x6 - 10x8 eXtended Functionality*: 4x4		6x6 - 8x6 - 8x8 - 10x6 - 10x8 - 10x10 13x8 - 13x10 - 13x16 eXtended Functionality*: 4x4 - 7x6 - 9x9	
Maximum image size		495 MB		820 MB	
Minimum scan time		6.4 s		3.6 s	
Typical X-ray exposure time		1.6 s (Low-dose QuickSCAN) - 8.0 s (SuperHD Mode)			
Patient alignment		Servo-assisted: Scout View method or augmented reality *			
Image format		Exclusive iRYS and DICOM 3.0 software			
Minimum render times for CB3D data		15 s on average		On average, real-time for FOV XF 4x4 QuickSCAN	
STANDARD (STD.)			DIRECT CONVERSION (DC™)		
2D IMAGES		Panoramic X ray Cephalometry		Panoramic X ray Cephalometry	
Detector technology		CMOS (CsI)		CMOS (Cd-Te)	
Pixel size		100 µm		100 µm	
Dynamic range		16 bit (65536 grey levels)			
Detector height		148 mm 223 mm		154 mm 231 mm	
Image pixel matrix		max: 1470 x 2562 max: 2200 x 2915		max: 1535 x 2583 max: 2279 x 2963	
Maximum image file size		PAN: 8 MB (single image) CEPH: 14 MB			
Typical scan time		6 s – 12.3 s 3.3 s - 9 s		6 s – 12.3 s 3.2 s – 7.5 s	
Theoretical image resolution 'on focusing plane'		PAN: 6.3 (pixel pitch of 80µm) BITEWING: 7.5 lp/mm (pixel pitch of 70µm) CEPH: 5.6 (pixel 90 µm)			
Contrast level		23% (at 3 lp/mm) 32% (at 2.5 lp/mm)		43% (at 3 lp/mm) 82% (at 2.5 lp/mm)	
Image format		TIFF 16 bit, DICOM			
Patient alignment		Servo-assisted: 4 laser guides (Class 1 - IEC 60825-1)			
X-RAY GENERATOR					
Generator type		Constant potential (DC)			
Frequency		100 -180 kHz			
X-ray emission type		Continuous or Pulsed			
Anode voltage		2D: 60 – 85 kV CB3D: 90 kV (Pulsed Mode)			
Anode current		2 – 16 mA			
Focal spot		0.5 mm (IEC 60336)			
Exposure control		Automatic. Morphology Recognition Technology (MRT)			
Compensation of spine absorption		Automatic (modularity of X-ray beam kV)			
mA and kV configuration		Modulated in real time during X-ray exposure, automatically or manually selectable in discrete increments.			
Maximum continuous anode input power		42W (1:20 at 85kV/10mA)			
Inherent filtration		2D: >2.5 mm Al eq. (at 85 kV) 3D: 6.5 mm Al eq. (at 90 kV)			
Integrated X-ray shielding behind receptor		In compliance with IEC60601-1-3			

DIMENSIONS	PAN AND CB3D	WITH TELERADIOGRAPHIC ARM
Minimum available work space requirement (L x D)	1.4 x 1.2 m (55" x 47")	1.4 x 1.79 m (55" x 70")
Package dimensions (HxLxD)	1515 x 1750 x 670 mm (basic machine); 360 x 530 x 1030 mm (telerradiographic arm)	
2-speed motorized column, adjustable height	1660 - 2450 mm	
Weight	155 Kg – 342 lbs	175 Kg – 386 lbs
Notes	Wall or floor support, free standing base available. Accessible for patients on wheelchair	
POWER SUPPLY	AUTOMATIC ADAPTATION OF VOLTAGE AND FREQUENCY	
Voltage Frequency	115 - 240 Vac, ± 10% single phase 50 / 60 Hz ± 2 Hz	
Maximum current temporary peak absorption	20A at 115V, 12A at 240V	
Current absorption in standby mode	20 Watt	
CONNECTIVITY		
Connections	LAN / Ethernet	
Software	MyRay iRYS (compliant with ISDP® 10003:2020 in accordance with EN ISO/IEC 17065:2012 certificate number 2019003109-2) and App iPad	
Supported protocols	DICOM 3.0, TWAIN, VDDIS	
DICOM nodes	IHE- compliant (Print; Storage Commitment; WorkList MPPS; Query/Retrieve)	
IOT - Remote Monitoring	DiVA, WEB-based applications & Easy Check with profiled user access (ISDP®10003:2020 compliant in accordance with EN ISO/IEC 17065:2012 certificate number 2020003704-2)	





RAY OF
SOLUTIONS



ProXima X6

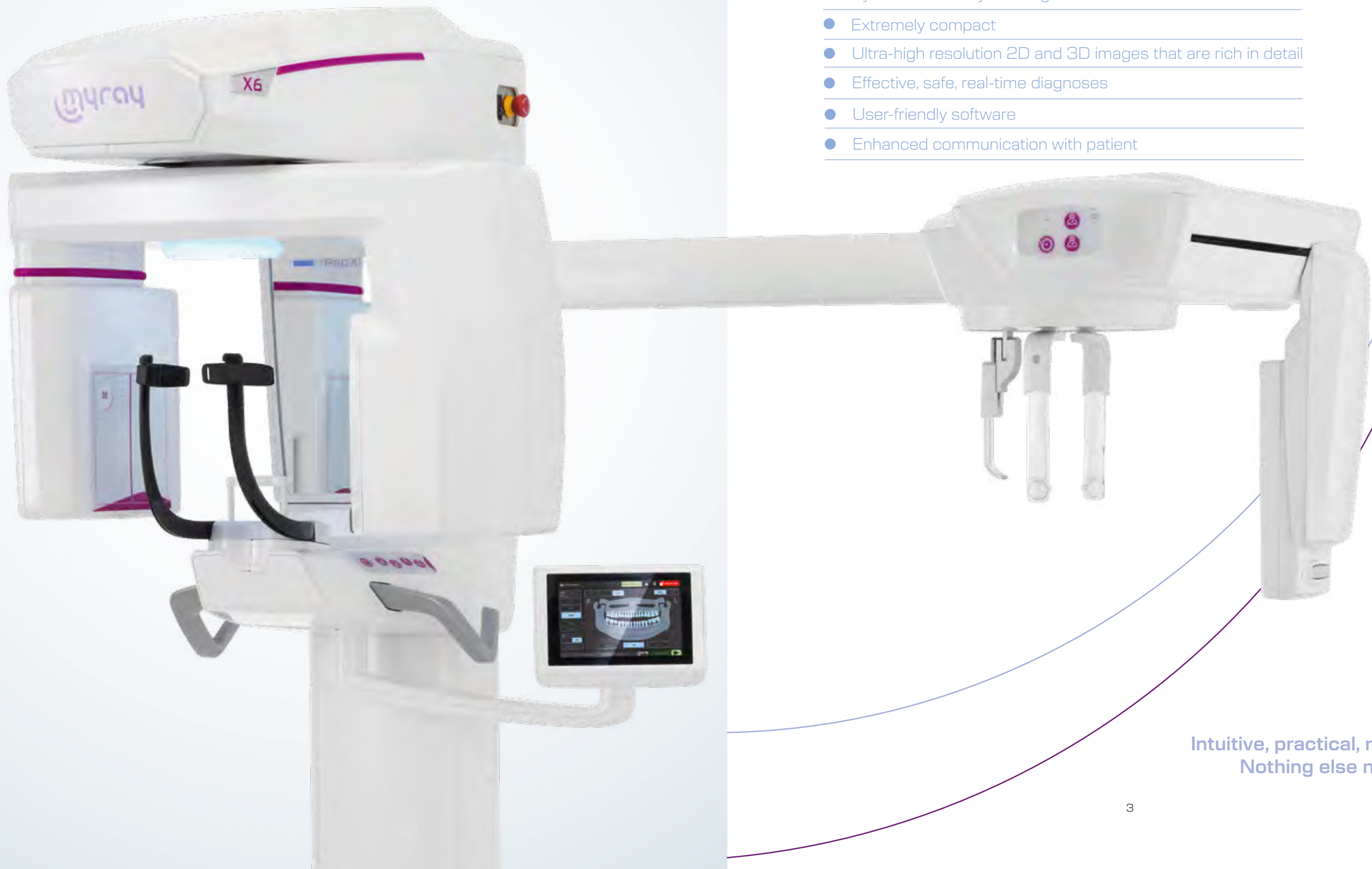
ProXlma X6

Professional X-ray Imaging

SO SIMPLE, SO BRILLIANT

Perfect for ultra-high quality 2D and 3D exams with very low doses.

- Modern minimal design
- System can easily be integrated with CEPH arm
- Extremely compact
- Ultra-high resolution 2D and 3D images that are rich in detail
- Effective, safe, real-time diagnoses
- User-friendly software
- Enhanced communication with patient



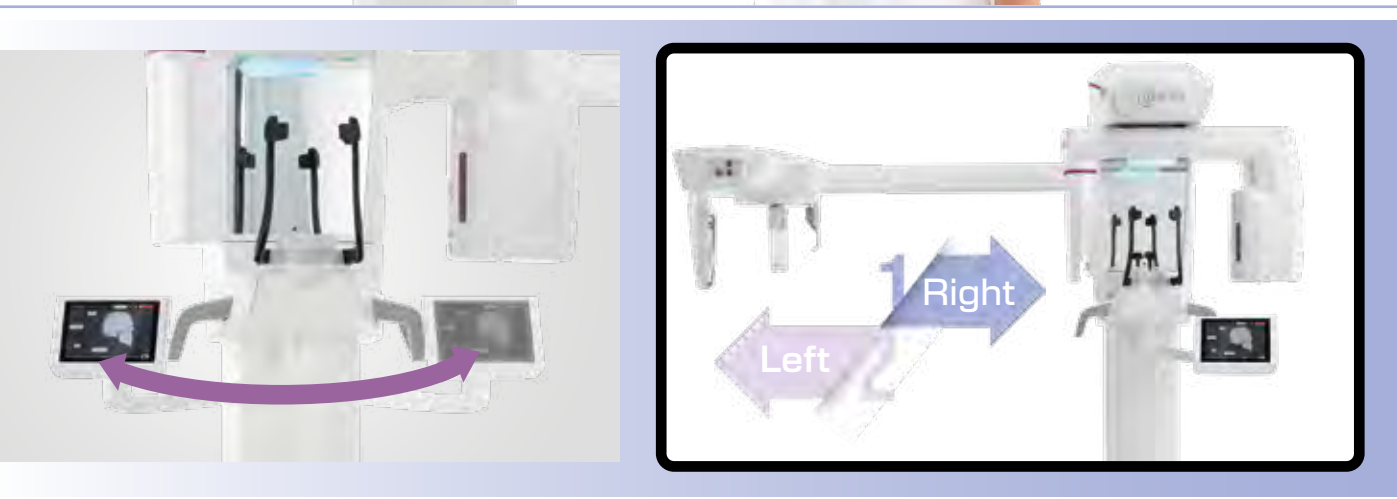
Intuitive, practical, reliable.
Nothing else needed.

TAKES SHAPE AROUND YOU

Flexible configuration

ProXima X6, lets you choose from among several different configurations to capture 2D, 3D and CEPH images. If desired, new functions can be added at a later stage.

To adapt perfectly to the available space, the control panel is positioned according to your usage preferences, while the ceph arm can be installed both on the left or right of the column.



AIRgonomics version

An exclusive wall-mounted installation without any floor obstacles not only saves space but also facilitates access for patients.

Patient Relaxing lighting system

Gives your practice a distinctive atmosphere and puts patients at ease throughout the positioning and imaging process.



Smart Mirror lighting system

Integrated in the mirror, this system has 5 different colours that provide clear, immediate information on device status at all times.

Blue	● Waiting
Green	● Ready for examination
Yellow	● X-ray emission in progress
Red	● Error detected
Cyan	● Reset in progress

Touch-sensitive keypads

These simplify adjustment of the height of the column and the laser guides and make post-use cleaning and sanitisation easier. Configurable on the right or left of the device.



THE PLEASURE OF WORKING IN A COMFORT ZONE



Full-touch 7" on-board control panel

Featuring modern, ultra-compact design, the integrated 7" full-touch control panel guides you - simply and intuitively - through every stage of positioning and image acquisition. Depending on whether the 2D or 3D protocol is selected, the new graphic interface provides precise

instructions on how to position the patient and which accessories to use. **ProXima X6** maximises operational flexibility: control panel positioning and tilt can be adapted to the different needs of both the patients and the dentists who interact on the machine.

Virtual control panel

The user-friendly graphic interface guides you through the process step by step: from selection of the exam to execution of the scan, providing direct access to all device functions via PC.



Integrated cooling system

Greatly increases the number of examinations you can perform each working day, ensuring images remain accurate and high-quality.



Remote Reality View

Remote monitoring system consisting of front-facing camera and microphone to ensure correct positioning of patient, also remotely. The system improves communication and cooperation between patient and dentist, who can provide instructions remotely.





Patient positioning/securing tools

The ergonomic head support adapts to the shape of individual patients' heads and, together with the two supplied bites, ensures proper positioning of the arches, a high-quality final result and diagnostic repeatability of exams, even with edentulous persons, children or patients without incisors.

Two sub-nasal supports are also provided for examinations of the maxillary sinuses and temporomandibular joints.



Lasers

The three integrated lasers form an essential guide for correct anatomical alignment of the patient: this reduces the risk of clinically ineffective images and minimises the likelihood of having to repeat the test and expose patients to additional radiation.

Patient foot positioning

A laser beam is projected onto the floor, remaining correctly aligned even if the column is moved: with this, positioning of the patient's feet minimises any human error, optimises image quality and makes the examination easily repeatable.



Ergonomic handles

Ergonomically designed handles aid patient stability, ensuring patient posture is comfortable, safe and stable during an examination.



Retractable storage compartment

Integrated under the central arm, allows easy storage of patients' personal items or positioning accessories.



YOUR PATIENTS FIRST AND FOREMOST

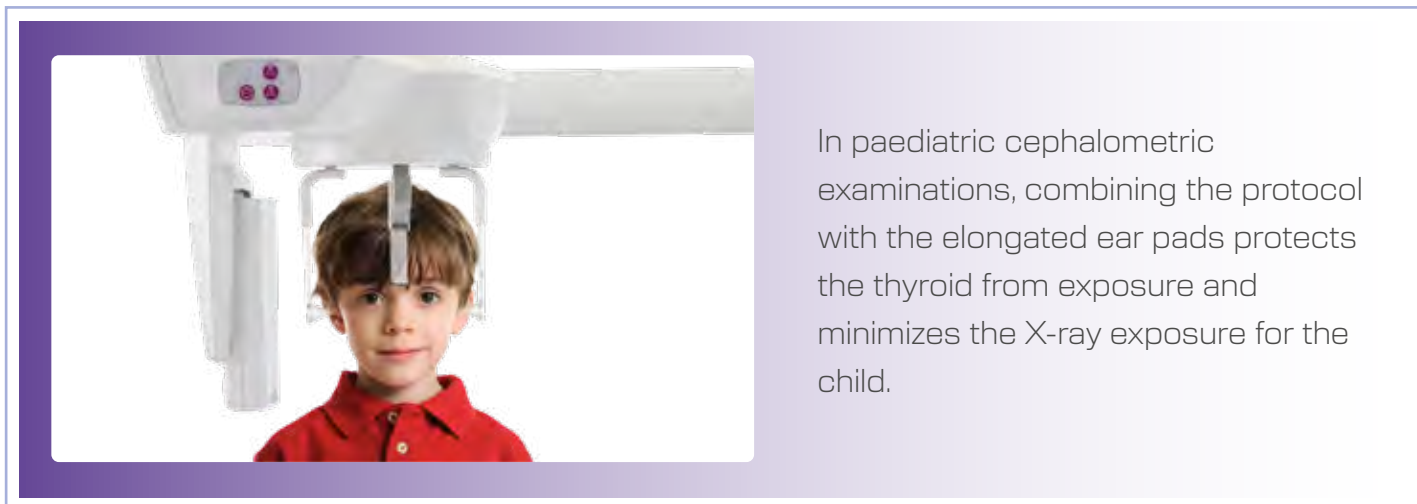
ProXima X6 has been designed to reduce X-ray emissions while maintaining ultra-high image quality. This is possible thanks to automatisms, functions and accessories that calibrate X-ray doses according to the patient's actual needs and their anatomy, protecting the most sensitive areas.



Cutting-edge protocols

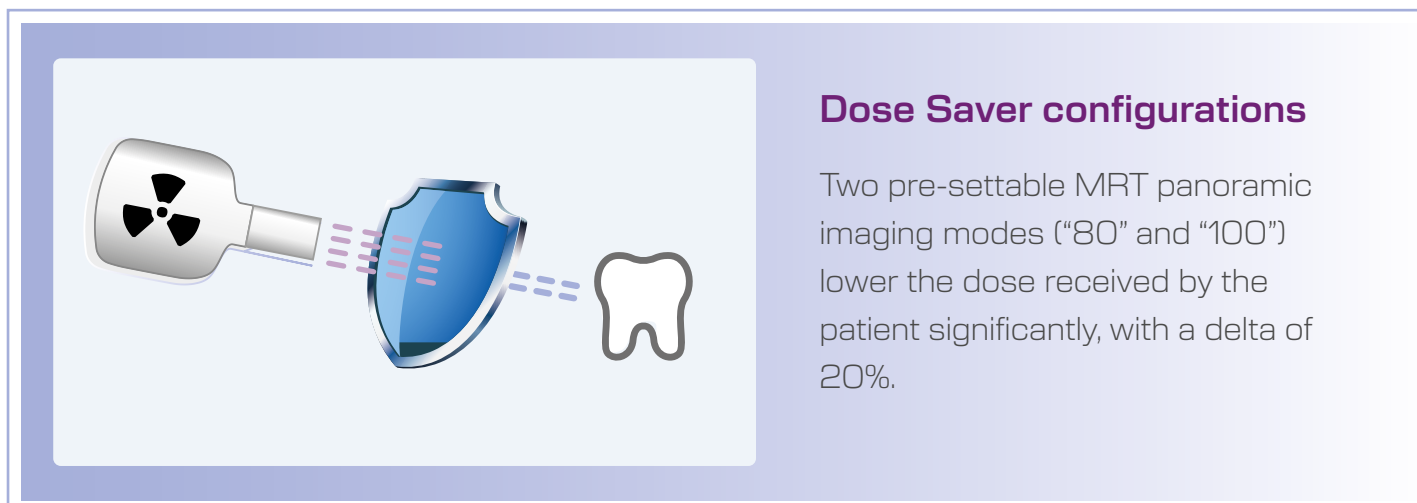
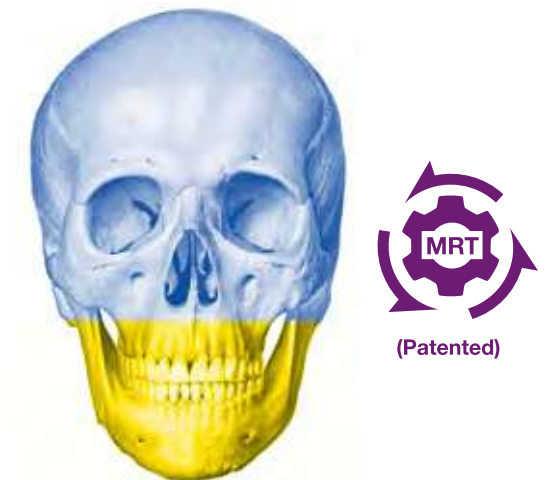
Available for both **2D** (QuickPAN and QuickCEPH) and **3D** (QuickSCAN) examinations, these provide accurate images but with lower doses than standard acquisitions.

These are particularly useful for post-surgical follow-ups or identifying any macro-structures, such as impacted teeth or agenesis.



MRT technology

Allows fully automatic calibration of the emitted dose according to the density of the anatomical area under examination and the physical characteristics of the patient, ensuring sharp, uniform images at all times.



DISCOVER THE DEPTH OF 3D



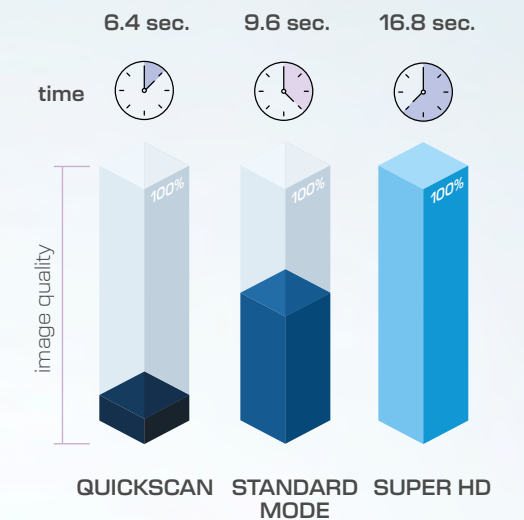
MultiFOV performance

ProXima X6 overcomes the limits of traditional 3D radiology thanks to its MultiFOV capability. This adapts the field of view to the patient's morphology and diagnostic needs, limiting the irradiated anatomical region to the area of actual

interest. Increasingly targeted exams and precise analysis in all key diagnostic areas: from implantology to measuring the volumes of the maxillary sinuses or TMJs, from endodontics to oral surgery.

Optimised 3D scanning protocols

Each FOV has three execution modes to adapt to all clinical needs, ensuring exams are performed according to real needs with extreme ease.



3D SMART (Streak Metal Artifacts Reduction Technology)

Automatically ensures anatomical structures remain sharp even where there are metal objects (amalgam or implants) that might compromise the quality of the 3D image.



Scout View system

By viewing two images of the patient, one lateral and one frontal obtained with a very low radiation dose, you can align the 3D volume on the area of interest directly from the PC while keeping the patient comfortably on the machine.



Model scanning

A dedicated support and protocol are also available for fast scanning of prostheses, radiological templates, models and impressions.

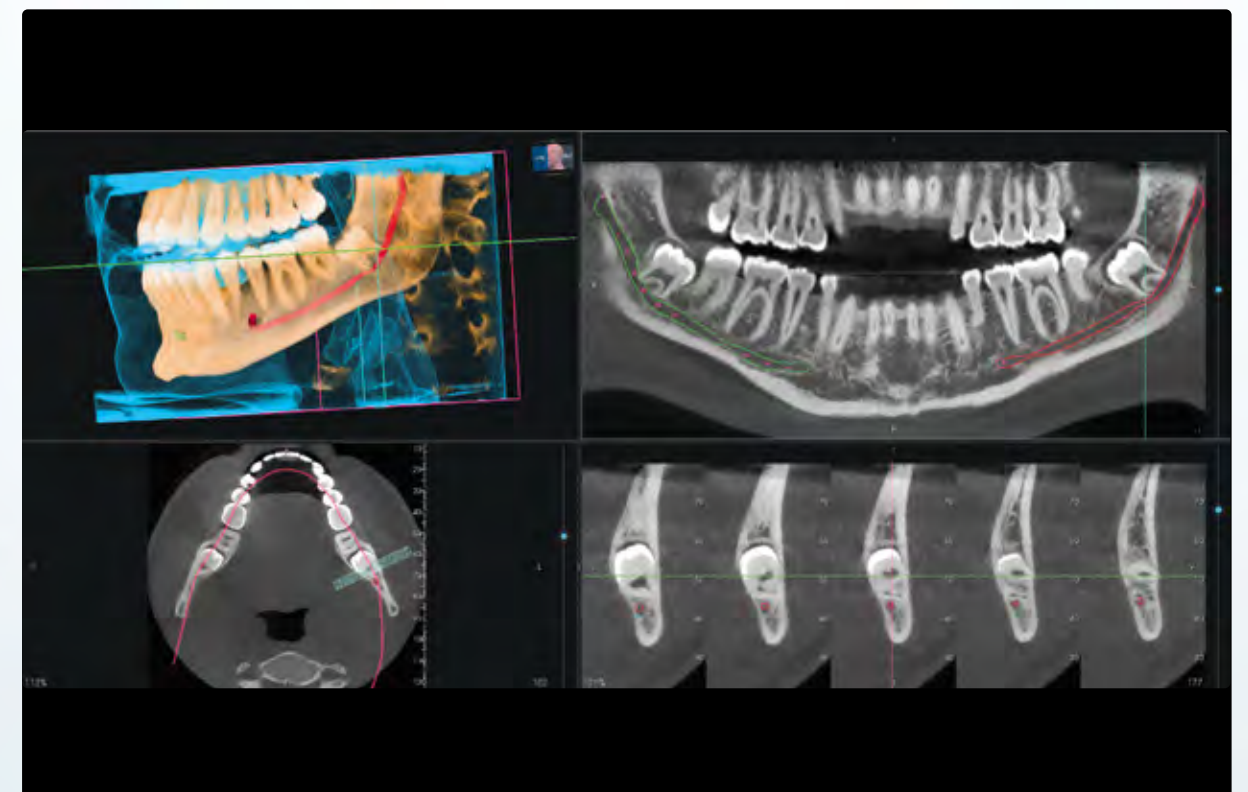
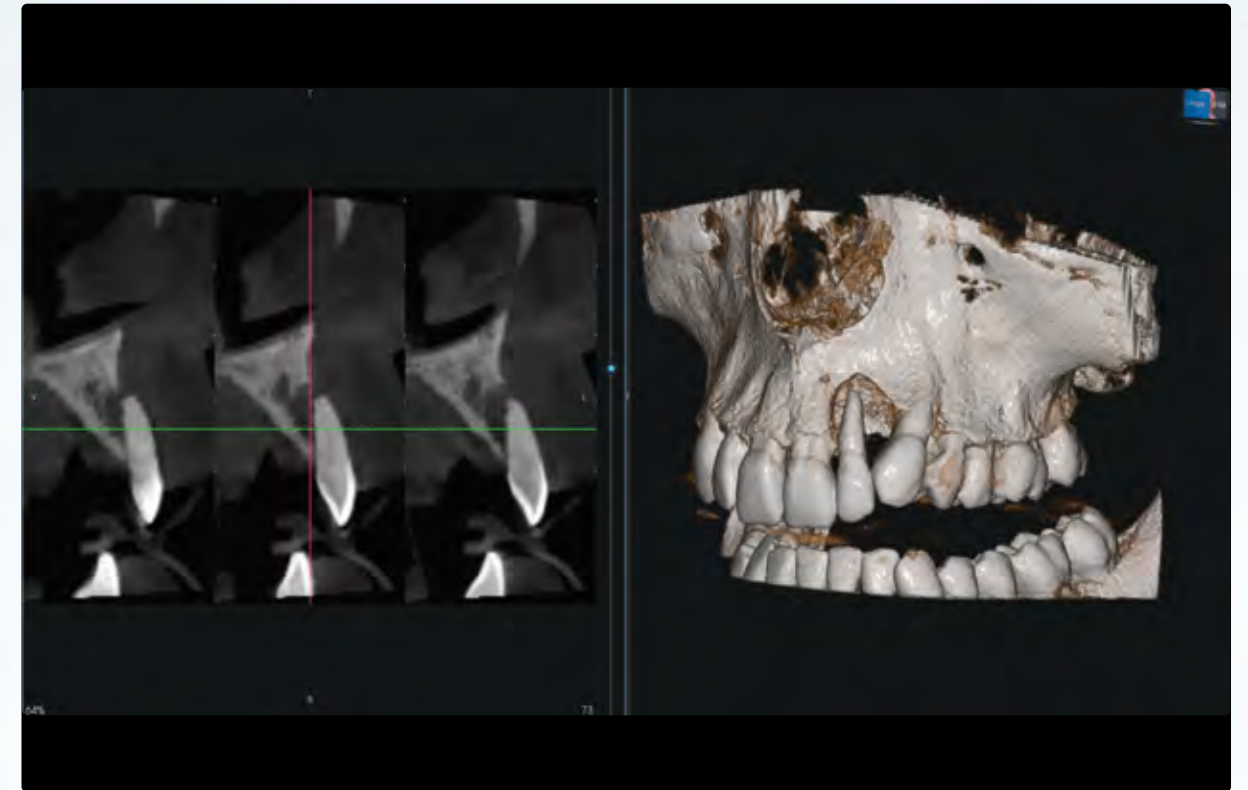
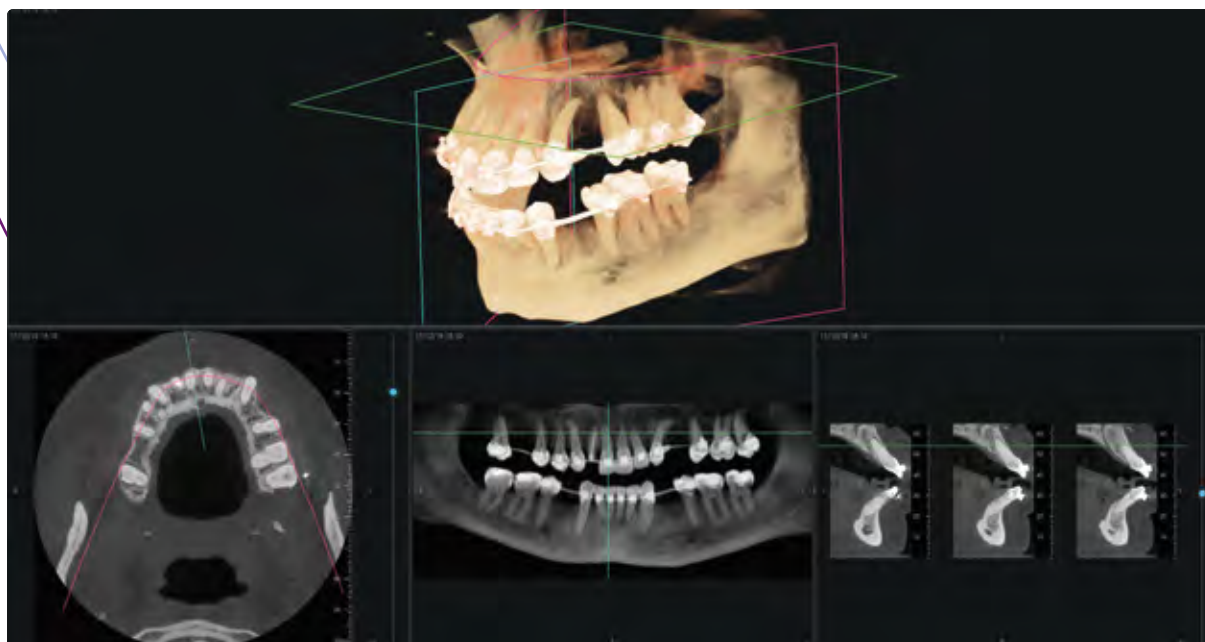
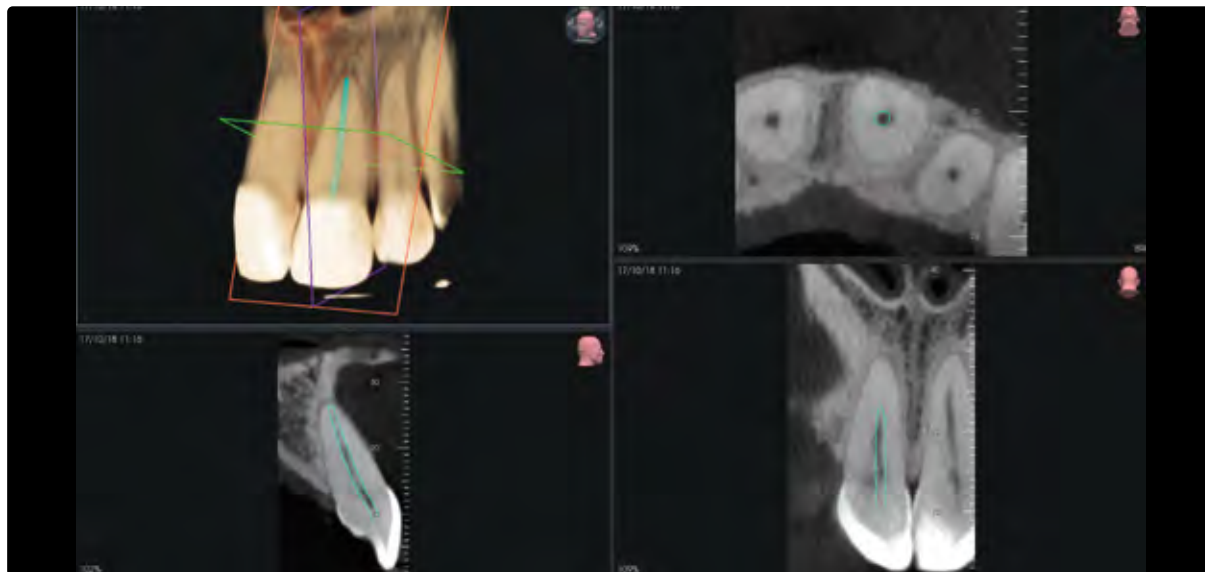


3D dental exams

Sectoral tomographic images of complete or partial dentition, individual arches, maxillary or mandibular or both, also including upper airways (nose, throat, sinuses). Versatile fields of view let you perform post-surgical checks, plan implants and analyse any dysmorphisms, lesions, fractures or cysts. They also let you analyse impacted teeth in relation to the mandibular canal and other surrounding structures.

• Typical FOVs for dental exams on adult or paediatric patients:

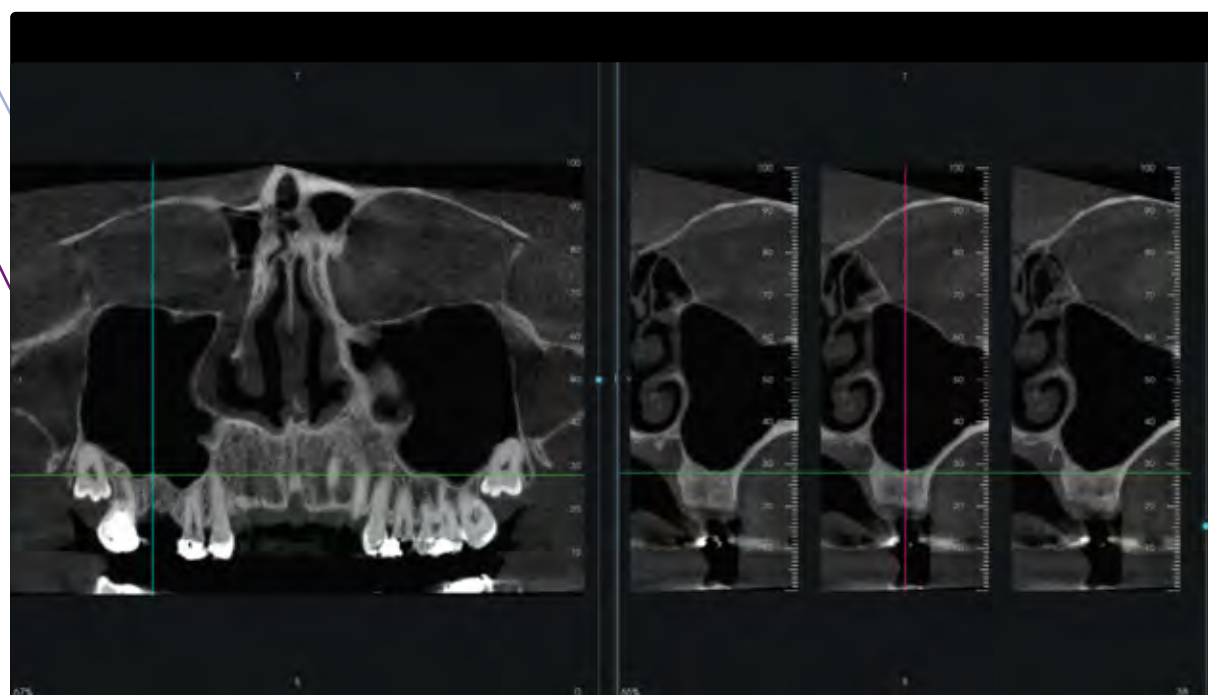
6x6, 8x6, 8x8, 11x6, 11x8, 11x11



3D sinus exams

Three-dimensional images of the maxillary sinus region, including nose and a portion of the cheekbone area or the maxillary sinuses area depending on the patient's build. Useful for verifying morphology or anomalies and pathologies such as sinusitis, tumours, obstructions, genetic malformations, opening of the middle meatus.

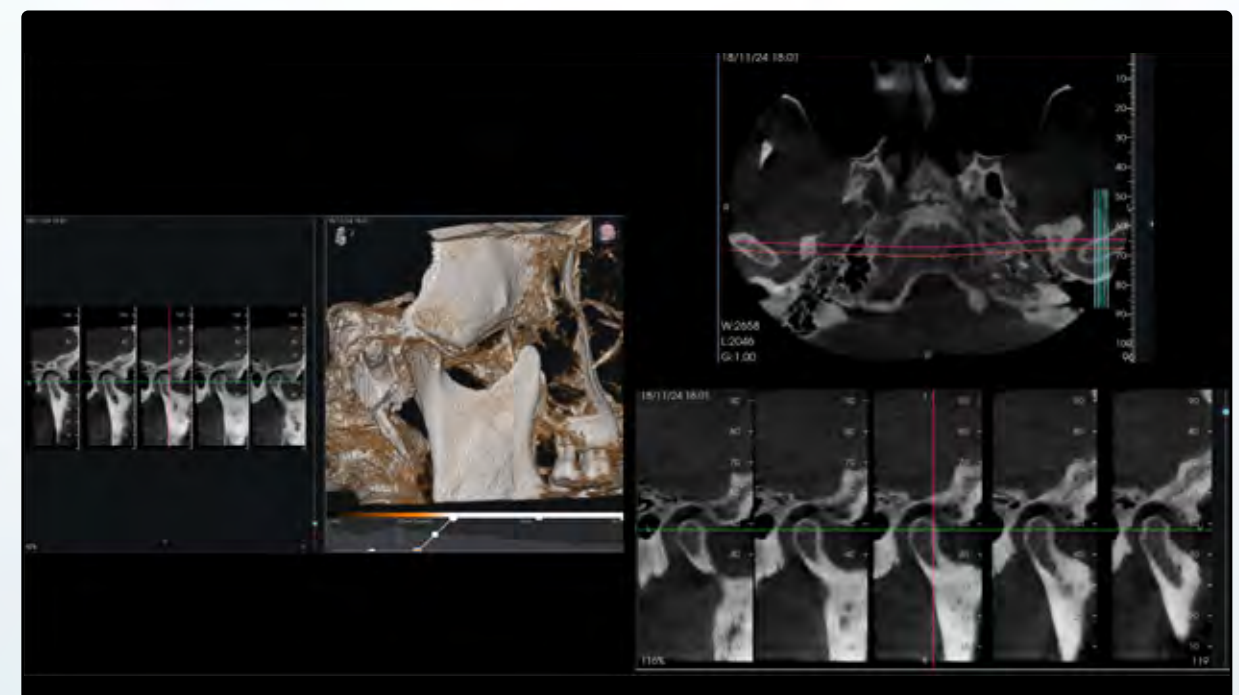
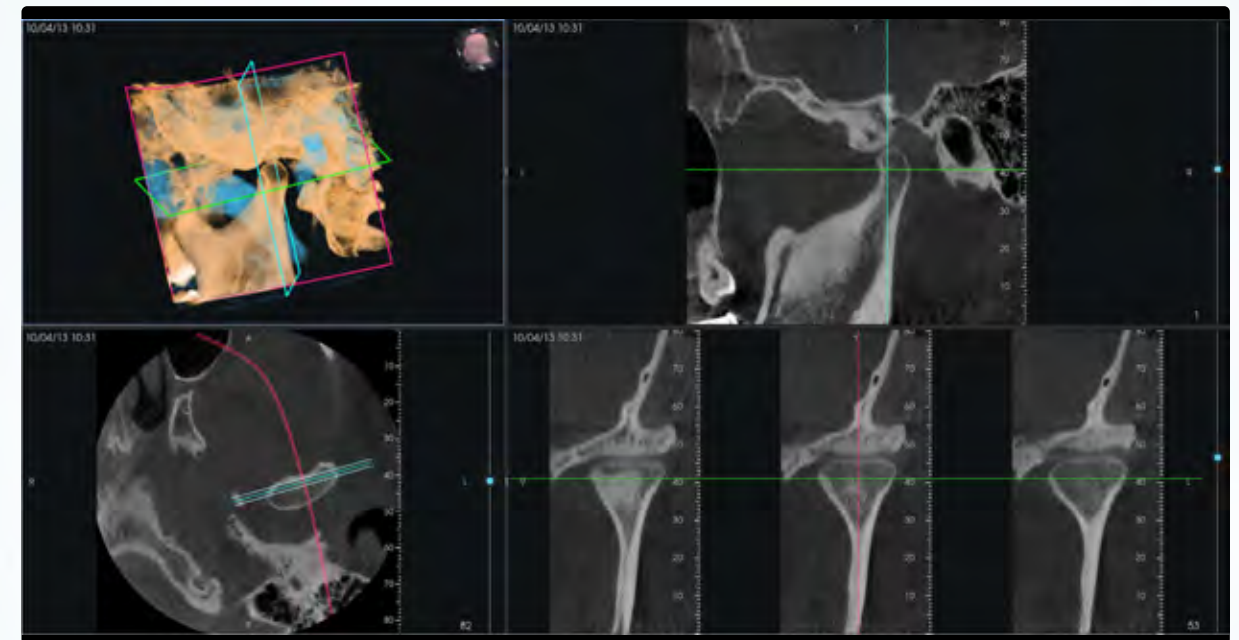
- Typical FOVs for sinus exams on adult or paediatric patients: 8x8, 11x8, 11x11



3D temporomandibular joint exams

Ability to capture both temporomandibular joints, verify the morphology of the relative bone structures, diagnose fractures or traumas and assess condylar translation to study joint functionality. The available set of FOVs allows for acquisition of the entire ascending mandibular rami, third molars included, even in highly complex cases..

- Typical FOVs for TMJ exams on adult or paediatric patients: 11x6, 11x11 (single-scan-fields) - 13x6, 13x10, 15x6, 15x11 (double-scan fields)

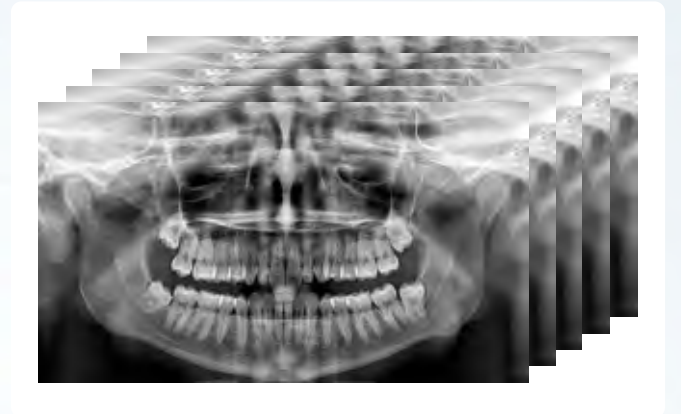


2D IMAGING THAT'S A MUST-HAVE



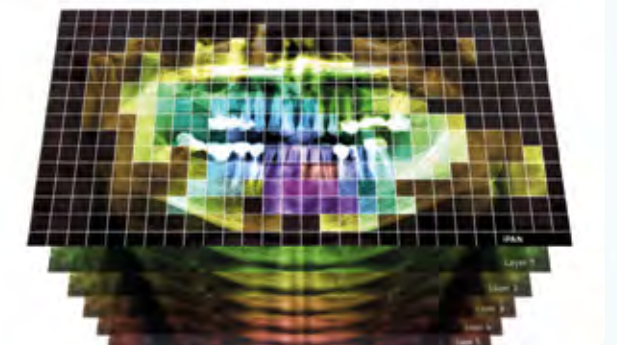
MultiPAN function

With just a single scan - and a dose equal to that of a single traditional panoramic X-ray - 5 different focus layers can be obtained. You can then select the one that best highlights the diagnostic detail of interest.



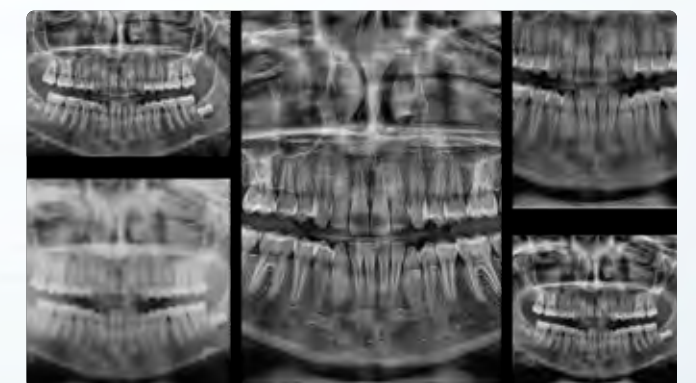
iPAN function (Focus-Free)

Lets you obtain a single panoramic image automatically by merging the layers generated by the MultiPAN function and selecting the most in-focus portions of each of them.



2D PiE (Picture image Enhancer) filters on PAN Focus-Free function

These automatically optimise each layer captured with the MultiPAN function thanks to self-adaptive filters that act on the sharpness and detail of the different anatomical areas according to user-applied settings.





Standard Panoramic

Allows a complete, accurate view of the dental arches, maxillary sinuses and temporomandibular joints.



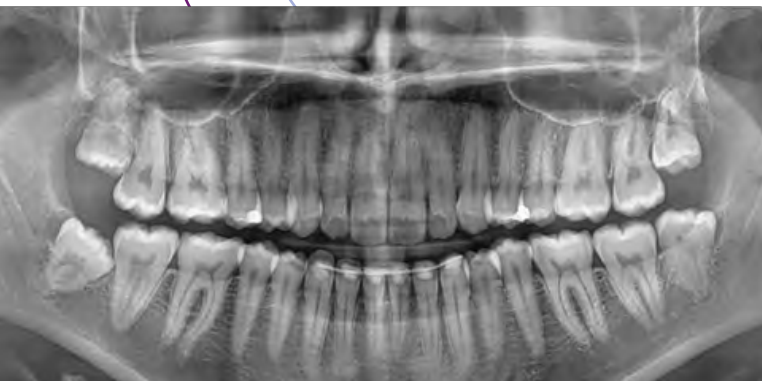
Orthogonal panoramic

Compared to a standard panoramic image, this highlights interproximal spaces perfectly; the entire root structure is free from any overlapping.



Paediatric panoramic

Panoramic imaging FOV and exposure are adapted to the build of paediatric patients.

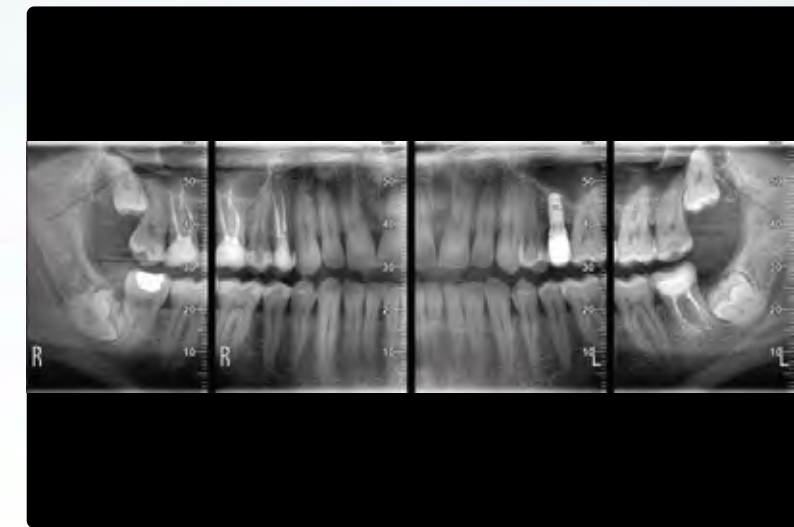


Dentition

Provides clear, detailed images that are limited to the dentition area, in whole or in part: their orthogonality and definition are perfect for periodontal assessments.

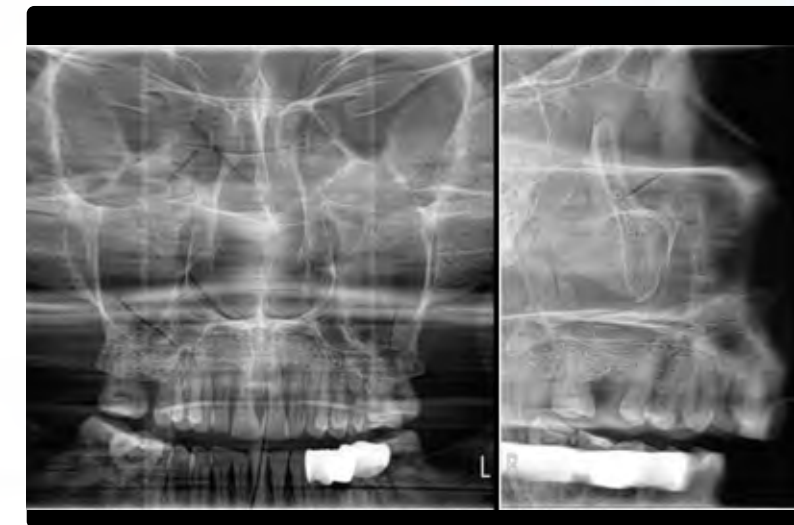
Bitewings

Optimised collimated interproximal projection with a low dose to investigate dental crowns. An alternative to intraoral bitewings, with a less invasive and more comfortable procedure.



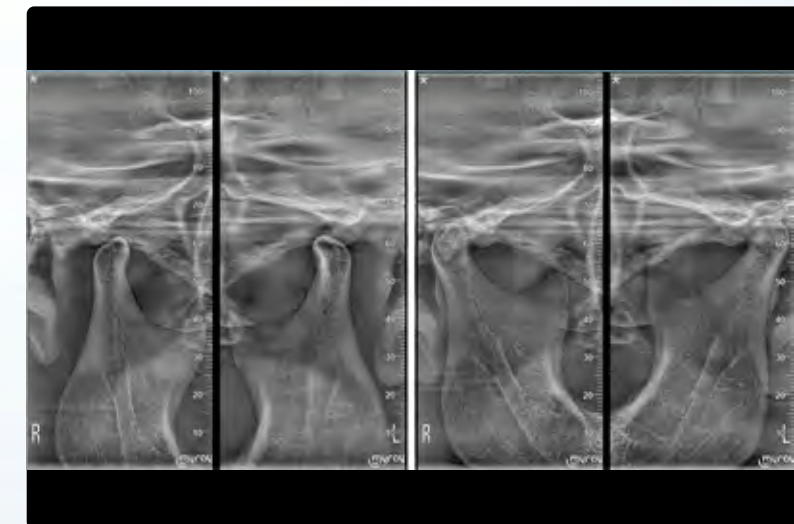
Maxillary Sinuses (frontal and lateral)

Creates an image that allows dentists to assess the health of the maxillary sinuses. To be effected with dedicated sub-nasal support.



Temporomandibular joint (frontal and lateral)

Generates lateral or postero-anterior projections, with mouth open or closed. To be effected with dedicated sub-nasal support.



OBTAIN MORE WITH THE CEPH ARM



Cephalometric arm

Equipped with a latest-generation 2D sensor, the cephalometric examination arm is compact and can be installed on both the right and left of the column. Maximum versatility to meet every possible installation requirement. The modular design of **ProXima X6** also

allows the arm to be added, in CEPH Ready configurations, at a later date. The head support provides patient comfort thanks to a height-adjustable forehead support and side rods available in two sizes: standard for adults and long for children.

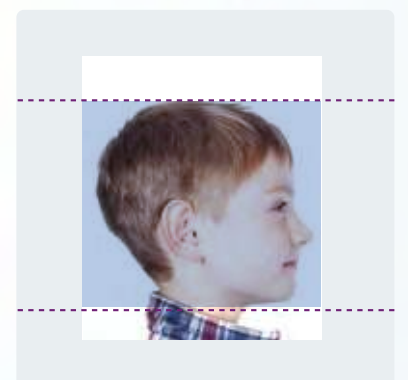
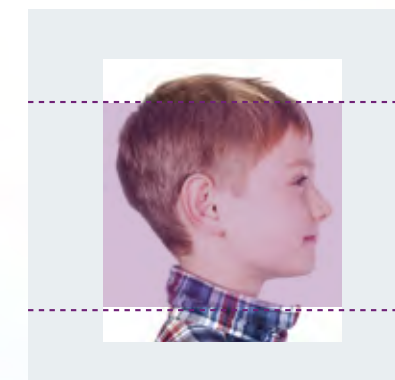
Repositionable 2D PAN/CEPH sensor

ProXima X6 allows you to perform both panoramic and cephalometric exams using the same sensor, which can be repositioned in the two slots used for 2D exams. Outstanding efficiency and versatility.



TOP CEPH positioning

TOP CEPH positioning for paediatric patients reduces thyroid exposure and prevents sensor-shoulder contact, allowing inclusion, if necessary, of the skullcap.



Support for carpal analysis

Dedicated carpal analysis accessory for the assessment of residual growth; particularly useful with paediatric patients to compare it with development of maxillary and mandibular bones.





Lateral skull teleradiography – Full Standard

Full Standard latero-lateral view of the skull provide images that show bone structures in detail and highlight soft tissues, providing essential data for cephalometric studies.



Lateral skull teleradiography – Full Long

Compared to the Full Standard exam, the Full Long mode allows the maximum extension of the selected field of view, including areas from the temporal bone to the occipital bone and the upper area of the skullcap.

Frontal skull teleradiography

The Antero-Posterior (AP) or Postero-Anterior (PA) frontal projections produce a frontal-view image of the patient's maxillofacial area that allows investigation of possible asymmetries and malocclusions.



Carpal teleradiography

Allows you to view the carpal bones of the non-dominant hand; typically used to determine the patient's skeletal age.



YOUR DIGITAL ASSISTANT

NeoWise Imaging software is designed around you and your patients. It allows you to manage/process 2D and 3D images in order to make accurate diagnoses and streamline communication with the patient. Simple and effective, with advanced diagnosis/planning tools and filters.



Optimised workflow

Automating processes such as image segmentation and classification reduces operating times, making the practice more efficient.



Smooth dentist-patient communication

Advanced diagnostic tools make it easier to explain treatment plans to patients, improving their understanding and their level of engagement.



User-friendly interface

Designed to improve the user experience and reduce learning times. Using the various functions has never been easier or more personalised.



Multi-image support

The software lets you view and compare 2D and 3D images simultaneously, making it easier to compare clinical information and improve diagnostic capacity.

Real-time 3D rendering

Advanced rendering algorithms allow real-time display and management of 3D images for consistently detailed diagnosis.



Simulation of clinical analyses and treatments

This function can be used to view the expected outcomes of practices such as implant positioning; for example, it allows assessment of the insertion angle and can predict of aesthetic results with dental crowns.



Centralised image management

Access all patient scans quickly via a single interface to simplify consultation and streamline cooperation between teams from different departments.



Guaranteed compatibility

Key communication protocols such as DICOM, RIS/PACS and TWAIN are supported, ensuring secure transmission and storage of medical images.

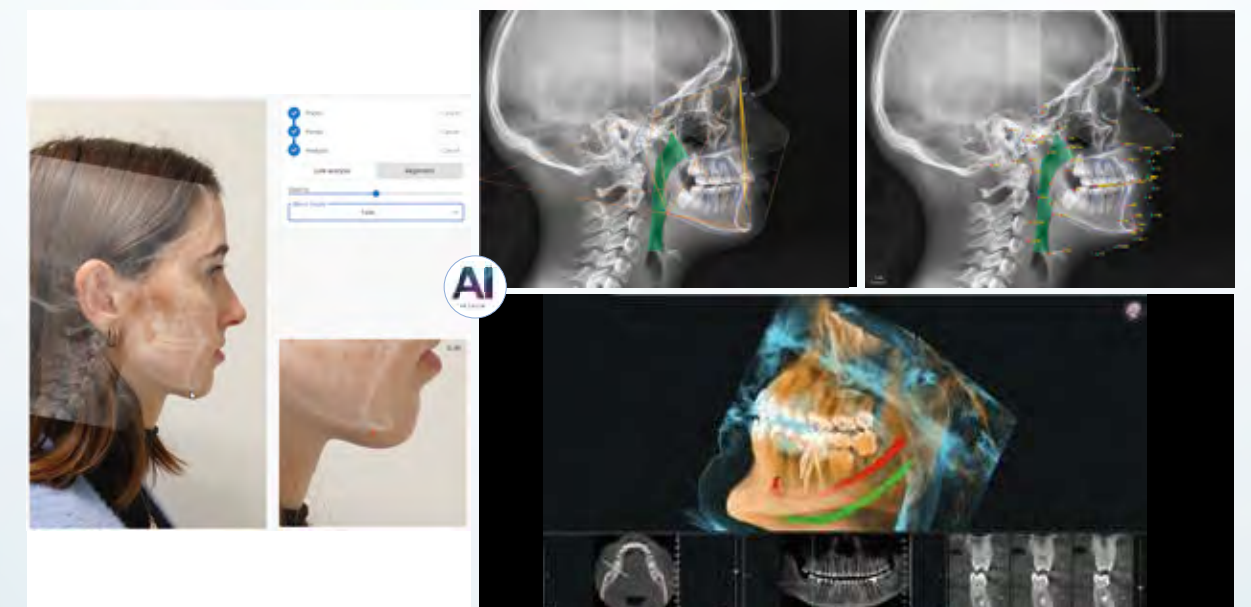


CLINICAL INNOVATION AT YOUR SERVICE

NeoWise integrates automated AI-powered features that improve diagnoses, raise operational efficiency and make treatment more personalised for each patient, making your work more precise and finely targeted than ever.



- Classification of 2D and 3D photographic images
- Anatomical and pathological analysis for 2D intraoral and panoramic exams
- Segmentation of 3D anatomical structures
- Detection of panoramic curves on CBCT exams
- Identification of inferior alveolar nerve in volumetric exams
- Alignment and combination of CBCT exams with optical impressions
- Detection of cephalometric points and creation of tracings
- Identification of airways for diagnosis of OSAS pathologies
- Latero-lateral telerradiography alignment with photo of patient
- Smile Design module to simulate aesthetic treatments in frontal sectors



OPTIMISES YOUR WORK

User profiling

Customise permissions and functions according to the role and preferences of the various users in your practice.



01



02

Database management

Create patient records with the utmost ease and security to ensure clear, accessible consultation at all times.



03



04

Image processing

Maximise the user experience thanks to the user-friendly tools menu and a range of views designed to match your clinical needs.



05



06

Data import

Automatically import examinations and images from iRYS and the other main dental imaging software tools.

Device configuration

View and configure all devices registered and enabled on your workstation according to your needs.

Sharing treatment

Create personalised reports on the patient's health and illustrate the treatment plan clearly.





IMAGES	2D	3D
Type	Pan (adult, child, ortho), QuickPAN, MultiPAN, Dent, Bitewing, Sin (front, L, R), TMJ (front, lat, both), CEPH (LL, AP- PA, Carpus)	Dent, Sin, TMJ, Model Examinations limited to region of interest
(Maximum) theoretical resolution on the patient plan	PAN: 5.7 lp/mm (pixel 78 µm) BW: 6.6 lp/mm (pixel 77 µm) CEPH: 5.7 lp/mm (pixel 88 µm)	PAN: 5.1 lp/mm (pixel 77 µm) BW: 6.6 lp/mm (pixel 75 µm) CEPH: 5.7 lp/mm (pixel 88 µm) CBCT: 6.25 lp/mm (voxel 80 µm)
Fields of view on patient (adult and child) (L) x (H) in cm	PAN STD: 27x15.2 - PAN CHILD: 23.5x15.2 DENT (Full): 26.48x15.2 BITEWING: 22.98x15.2 CEPH LL (full skull): 29.98x22.72	DENT: 6x6, 8x6, 8x8, 11x6, 11x8, 11x11 SIN: 8x8, 11x8, 11x11 TMJ: 11x6, 11x11, 13x6, 13x10, 15x6, 15x11 MODEL: 8x8, 11x6, 11x8, 11x11
Scan time	PAN: 13.7 s (Ortho); 12.3 s (STD); 6.8 s (Quickscan); 3.2 CEPH: 9.9 s (STD) 3.8 s (Quickscan)	Super HD: 16.8 s (Best Quality - single scan) Standard: 9.6 s (Regular - single scan) QuickScan: 6.4 s (Low Dose - single scan)
INSTALLATION		
Weight (kg)	2D basic machine: 51 Kg 3D basic machine: 56 Kg CEPH arm with sensor: 21 Kg	
X-RAY GENERATOR	2D	2D/3D
Generator type	Constant potential DC	Constant potential DC
Anode voltage and current	2D: 60-90 kV (continuous emission); 4 – 15 mA	2D PAN: 70 kV (continuous emission); 4 – 15 mA 2D: 60-90 kV (continuous emission); 4 – 15 mA 3D: 90 kV (pulsed emission); 2 – 16 mA
Focal spot	0.5 mm (IEC 60336)	0.6 mm (IEC 60336)
POWER SUPPLY	2D	2D/3D
Voltage and frequency	115 – 240 V Single-phase 50 / 60 Hz	115 – 240 V Single-phase 50 / 60 Hz
Maximum current absorbed in working conditions	20 A at 115 V; 12 A at 240 V	20 A at 115 V; 12 A at 240 V
Current absorption in standby mode	1 A at 240 V; 2 A at 115 V	1 A at 240 V; 2 A at 115 V
Adjustment method	Automatic voltage/frequency adaptation	Automatic voltage/frequency adaptation
DETECTOR	2D PAN & CEPH	3D/PAN
Detector type	CMOS (CsI)	IGZO
ERGONOMICS		
Patient positioning	Suggestion from virtual control panel - Servo-assisted alignment, 3 laser guides (Class 1 - IEC 60825-1) - 3D Scout View	



Making Your Life Better.

Due to our policy of constant technological upgrading, technical specifications may be subject to change without prior notice.
According to the standards in force, in extra-EU areas the availability and specifications of some products and/or characteristics may vary. Please contact your local distributor for further information. Pictures are for illustration purposes only.

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PLANT

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