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Hyperion X9 pro
Professional 3-in-1
full-touch imaging system



www.my-ray.com



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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.

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.

Powerful, reliable, easy.

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



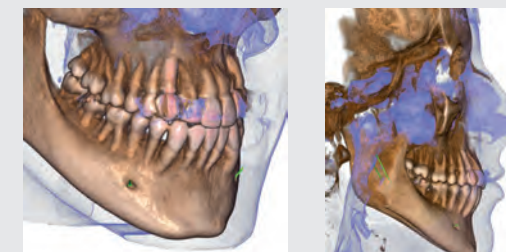
MULTIPAN (MRT)

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 teleradiography 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.



CONE BEAM 3D in SuperHD

360-degree 3D imaging with low-dose and ultrafast high-resolution scans: 75µm on the entire dentition and up to 68µm 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.

*Optional

Innovation, power and versatility.

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

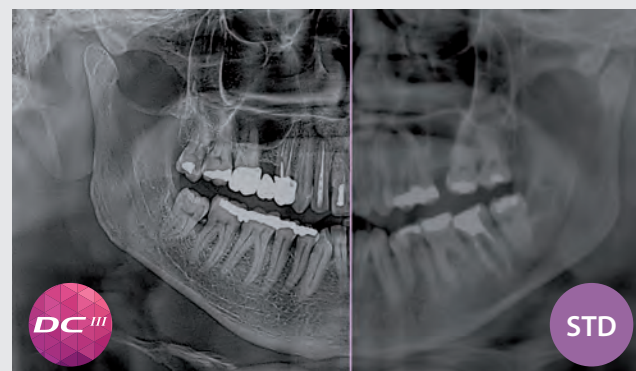
Maximum flexibility for your diagnoses.

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.

Versatile power.

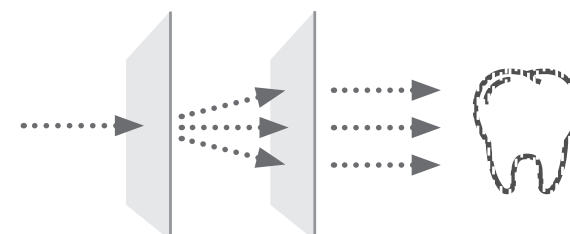
- Easily upgraded to all configurations
- Reversible CEPH arm
- Operates with relocatable 2D sensor or two sensors
- The most compact 3-in-1 system
- Direct conversion 2D sensor



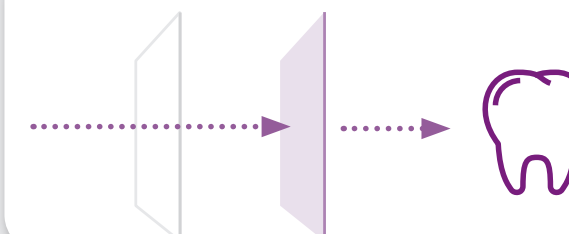
POWERFUL IMAGE ENHANCER WITH DC^{III} (DIRECT CONVERSION) TECHNOLOGY

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.

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.

3D Empowerment.

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



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.

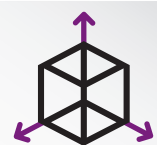
At an exceptional resolution of 75µm, Hyperion X9 pro provides, with a single acquisition, images of the entire dentition and the surrounding bone structures.

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).



POWER IMAGING

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.

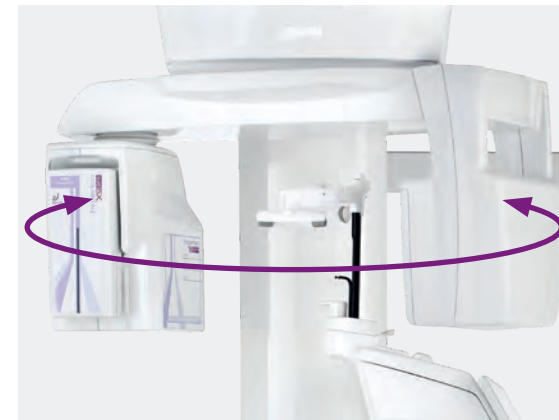
The very best of technological evolution for 3D diagnostics in your clinic. Hyperion X9 pro is equipped with an upgraded generator designed to give you optimal results in quick time and with a 3D sensor that delivers high-quality images with low irradiated dose. This next-generation technology, combined with optimised scanning protocols, makes it possible to achieve an extraordinary 68µm resolution.

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.

Perfection in details.

- Powerful generator
- 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)



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.



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.

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.

Smart CB3D.

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

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 68µm 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 75µm.



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

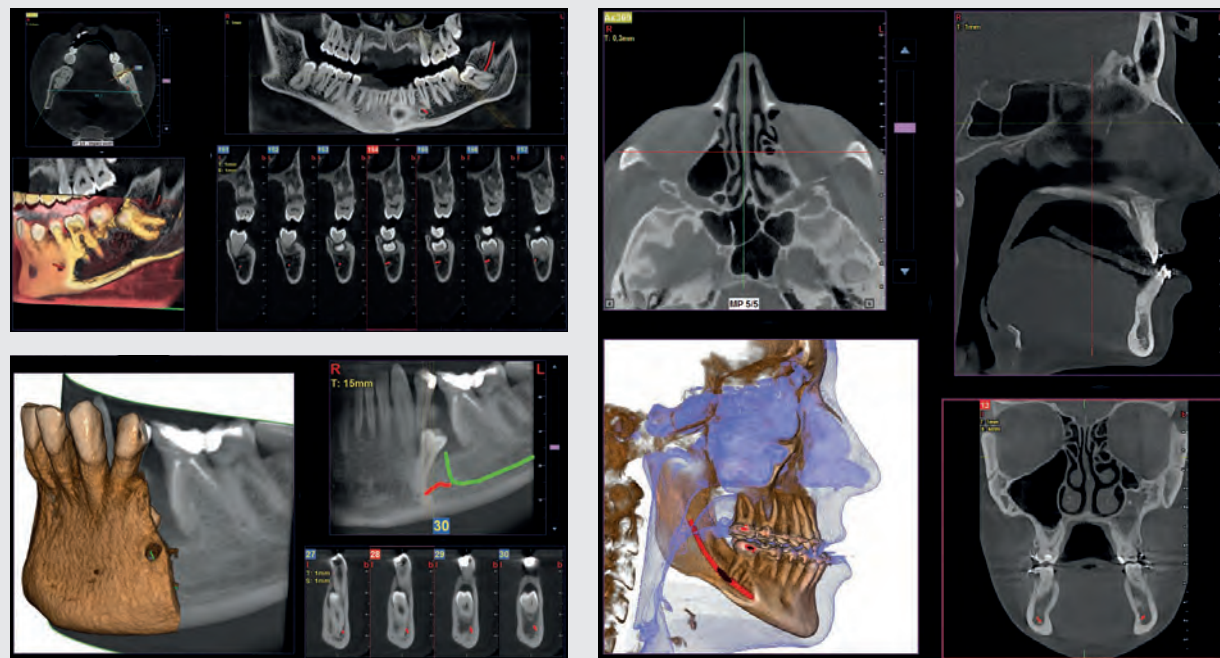
- ADVANCED**
- Dentition up to frontal sinuses: 13 x 16 cm
 - Ascending mandibular branches: 13 x 10 cm
 - Zygomatic arches and sinuses: 13 x 8 cm
 - Maxillary sinuses: 10 x 10 cm
 - Teeth: 4 x 4 cm (XF*)
- BASIC**
- Complete dentition, adult: 10 x 8 cm
 - Single dental arch, adult: 10 x 6 cm
 - Complete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

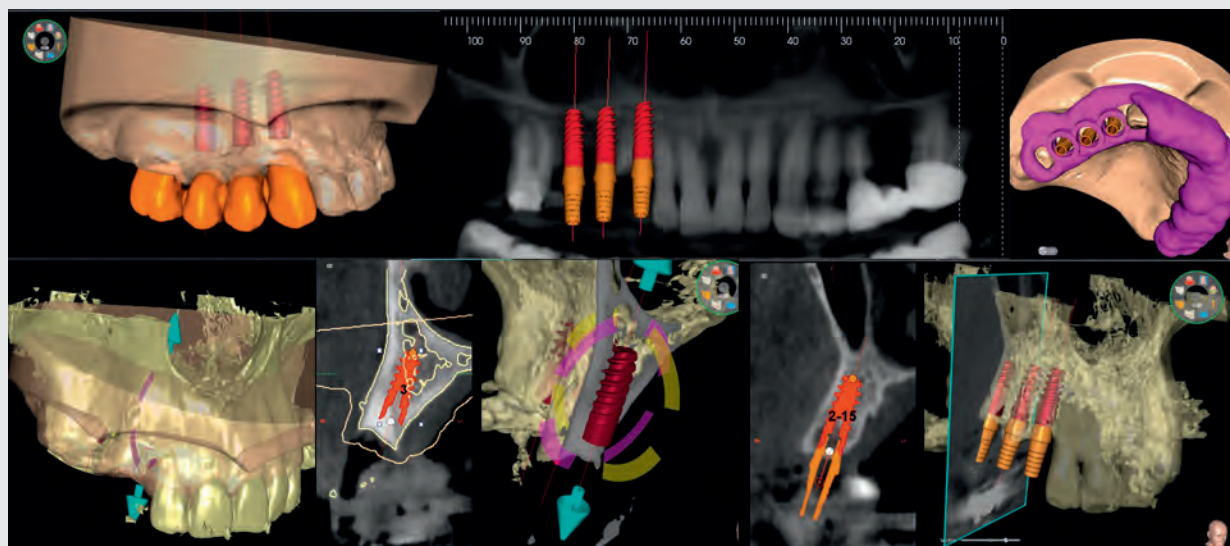
- TMJ: 7 x 6 cm (XF*) open mouth/closed mouth
- Cervical spine: 9 x 9 cm (XF*) - Voxel 68 µm

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.



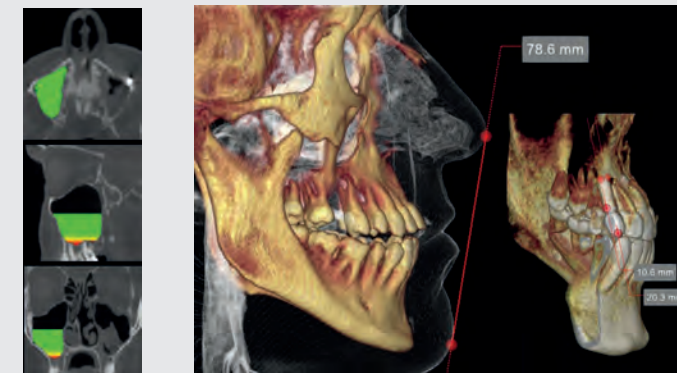
Advanced implant planning

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.

*Not available for Canada

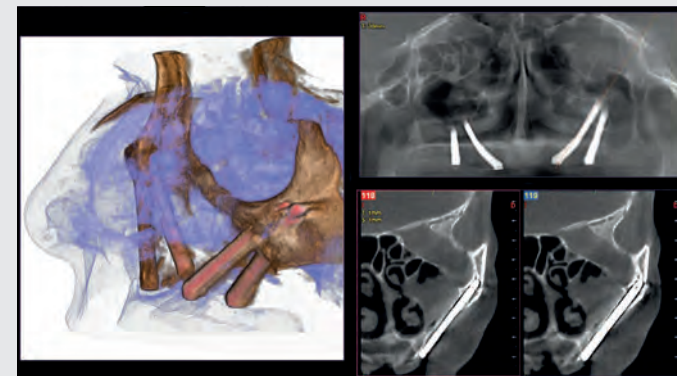
Volume analysis

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 13cm diameter is the only one that makes it possible to include the entire zygomatic arch, without cuts.



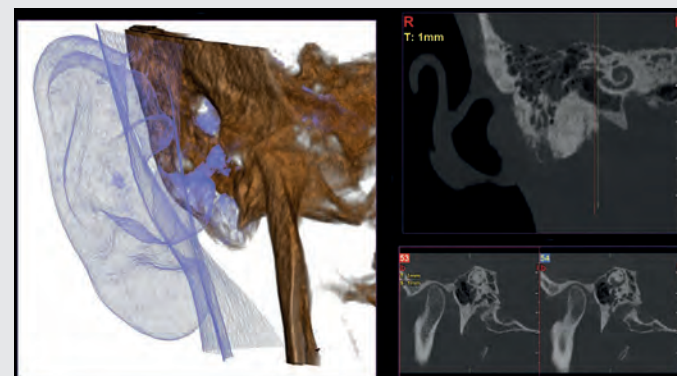
Endodontic examination

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 68 µm* 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.



*Optional

Capture every detail.

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

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.

Exact details, maximum performance.

- 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

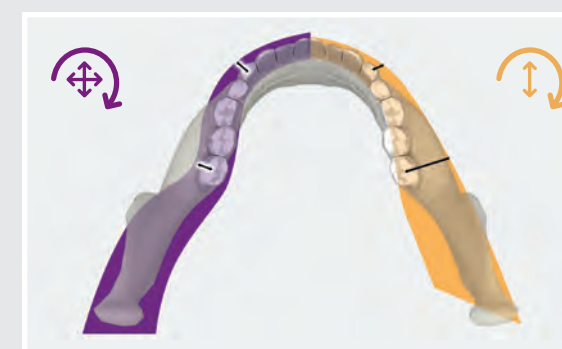


MULTIPAN SuperHD

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.

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.

Wide diagnostic range.

- 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

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.

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.

SuperHD quality.

- 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

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 is 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.

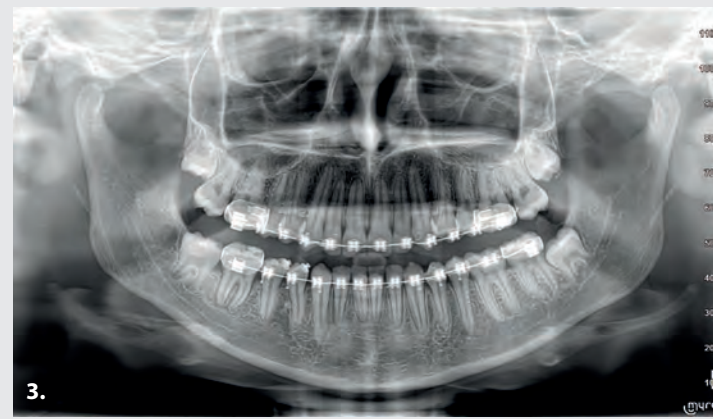
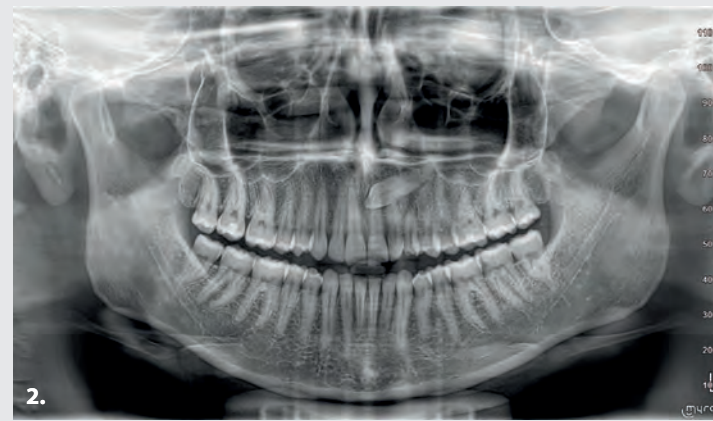
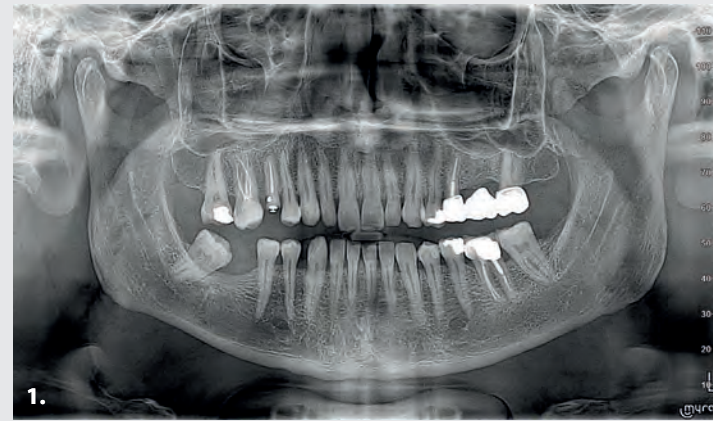


FULL CEPH

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



Dental panoramic radiographs

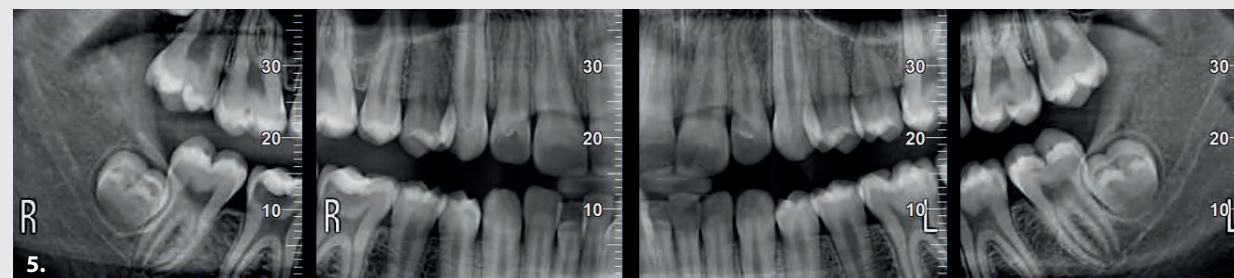
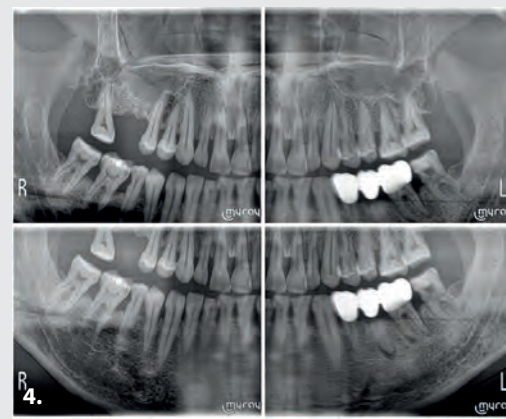
1. Orthogonal panoramic X-ray: minimises the overlapping of adjacent teeth and provides better periodontal analysis.

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.

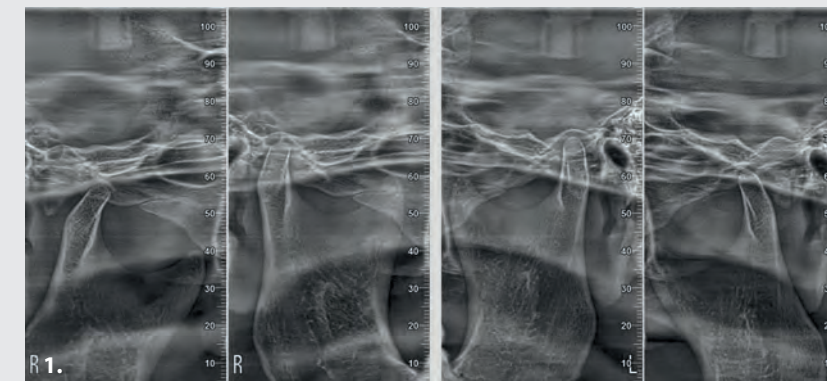
4. Complete dentition divided into quadrants: localised investigations with selectable segmentation to limit the irradiated dose.

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

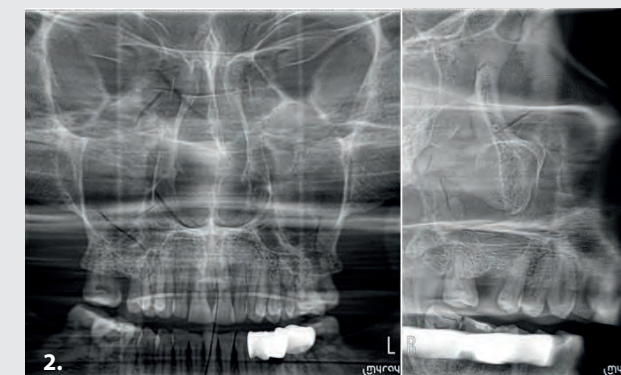
Innovative DC^{III} technology, which improves depth of field and increases contrast - and therefore real resolution power - lets users obtain SuperHD panoramic images from extremely extensive datasets to provide an 11-layer MultiPAN. Highly useful in the case of complex morphologies.



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^{III}) Teleradiography

Direct conversion acquisition with the DC^{III} 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.

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.

Improve your work.

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



*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.

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.

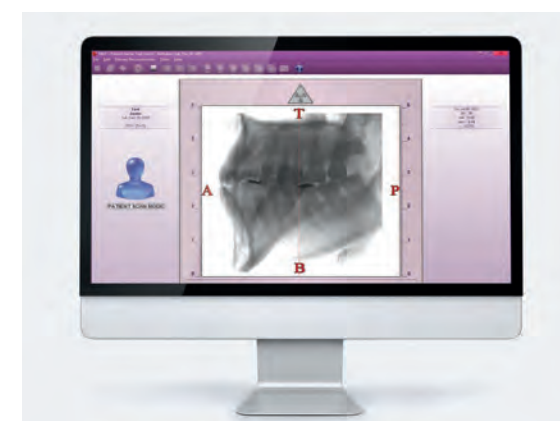
Best care.

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



GUIDED AND EFFECTIVE POSITIONING

The positioning is fast and accurate thanks to an alignment system that projects 4 laser beams directly onto the patient's face (to give the 3D FOV height indication) and the state-of-the-art ergonomic head support equipped with 7 fixing points for maximum stability during scanning. The Face to Face positioning guarantees maximum freedom of movement and the patient's comfort.



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.

3D QUICKSCAN
3,6 - 6,4s

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

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.

* must not be used for primary diagnosis.

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.

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.

A true evolution.

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

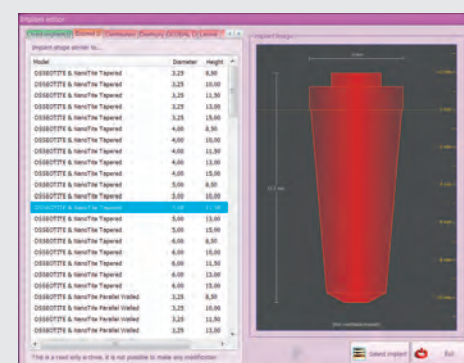


in according to EN ISO/IEC 17065:2012



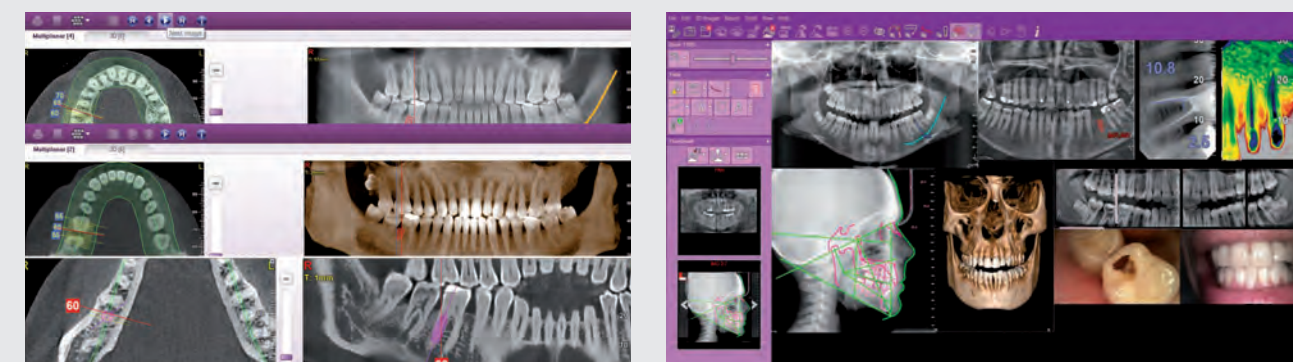
PRELOADED IMPLANT LIBRARIES

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 multiplanar panoramic analysis. Everything you need to carry out high quality diagnoses and communicate quickly with the patient.



* must not be used for primary diagnosis.

A complete set of tool for your diagnoses.

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

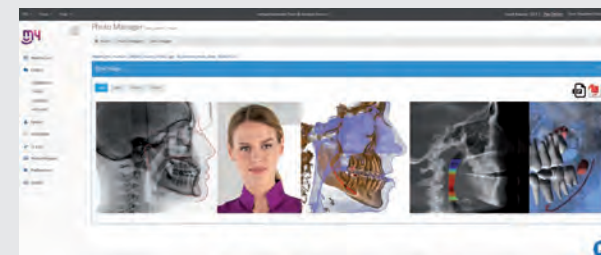
Being an advanced and reliable platform, iRYS provides you with a set of tools for diagnosis and treatment planning that delivers maximum performance at all times. Among them, the exclusive filters to improve image definition and detail level, as well as the features to assess bone quality and analyze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

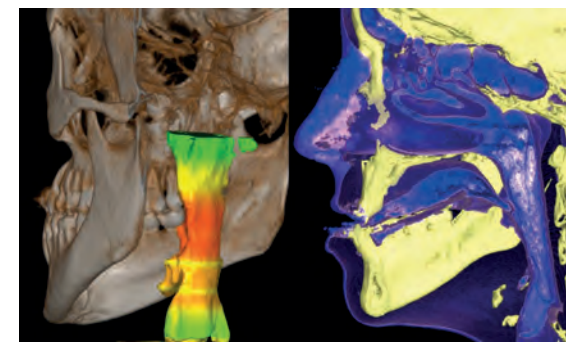
Great diagnostic tools.

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

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.



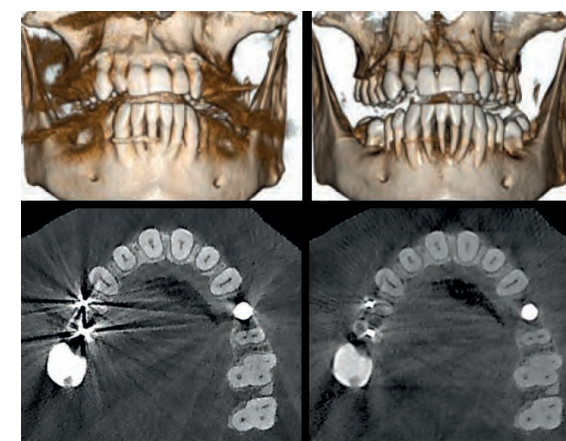
AIRWAY VOLUME

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).



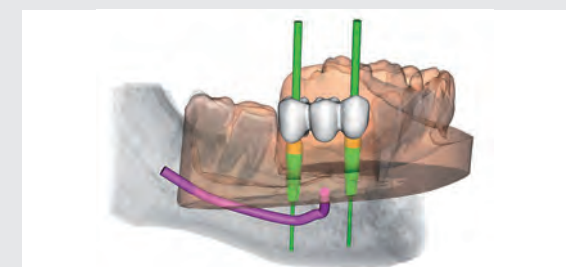
2D PiE

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.

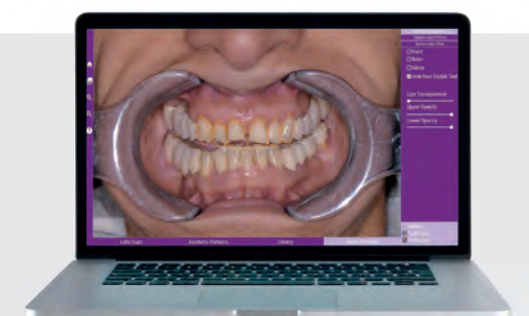


3D SMART

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.



The **RealGUIDE*** communication software platform, which interacts perfectly with iRYS, lets those involved in treatment (radiologists, dentists, dental technicians) process and share prosthetically guided implant surgery projects, both among themselves or with the patient.



iRYS lets users manage - directly in the patient folder - smile reconstruction projects with **Smile Lynx***; this software can, in mere moments, simulate the treatment outcome directly on a digital photo, thus motivating the patient and streamlining communication with the lab.

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

Hyperion X9 pro, full sharing.

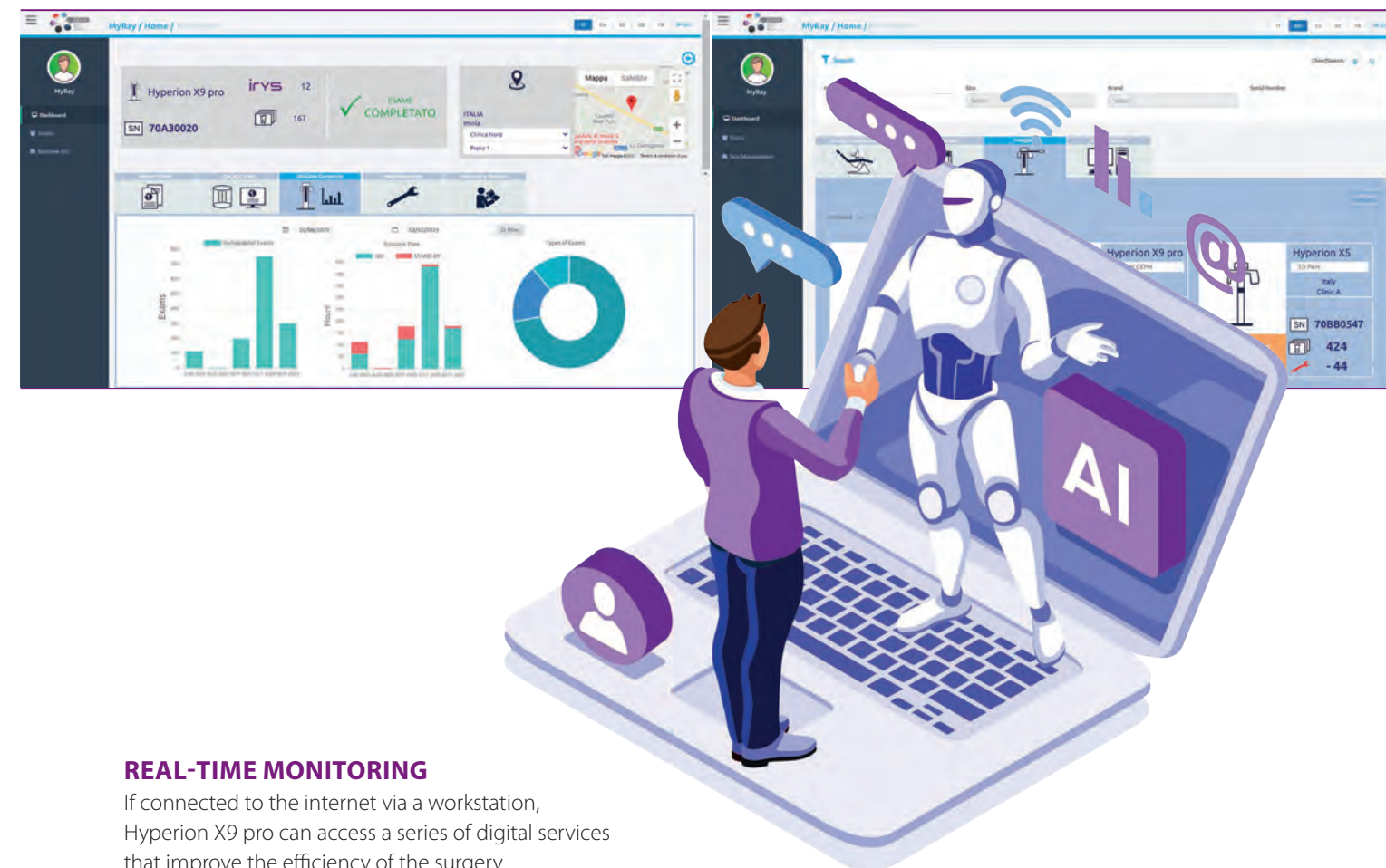
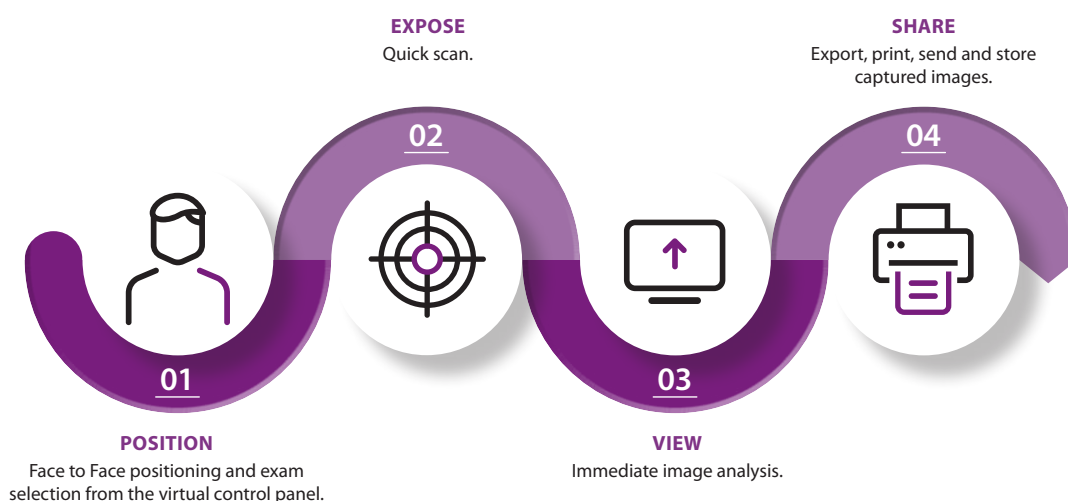
An innovative, easier and more efficient concept of work flow. A platform that perfectly suits your working method.

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.

Be connected.

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



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.

* must not be used for primary diagnosis.

Technical specifications.

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 ^{III})	
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			

* Optional

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, VDDS	
DICOM nodes	IHE- compliant (Print; Storage Commitment; WorkList MPPS; Query/Retrieve)	
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)	

