myray
new comfort
in digital imaging

www.my-ray.com

Hyperion X5

3D/2D Ceph suspended imaging system

cefla

BU Medical Equipment

Plant - Via Bicocca, 14/c - 40026 Imola - Bo (Italy) tel. +39 0542 653441 - fax +39 0542 653555
Headquarters - Cefla s.c. Via Selice Provinciale, 23/a - 40026 Imola - Bo (Italy) tel. +39 0542 653111 - fax +39 0542 653344
Cefla North America, Inc. 6125 Harris Technology Blvd. Charlotte, NC 28269 - U.S.A. Toll Free: (+1) 800.416.3078 Fax: (+1) 704.631.4609

myray
new comfort
in digital imaging

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

MRT
(Patented)

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

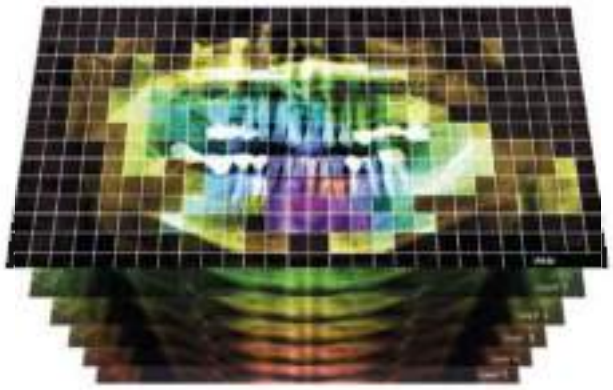
3D images with ultra-fast scans at low doses and very high resolution (Voxel **80 µm**) over the complete dentition, combined with dedicated FOVs developed to obtain consistently excellent results. Complete dental diagnosis, including assessment of maxillary sinuses.

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

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

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.

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

FOV 10 X 10 CM DENT **FOV 10 X 10 CM SIN** **FOV 10 X 6 CM** **FOV 10 X 7 CM**

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.

FOV 8 X 6 CM **FOV 8 X 7 CM** **FOV 6 X 6 CM** **FOV 6 X 7 CM**

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

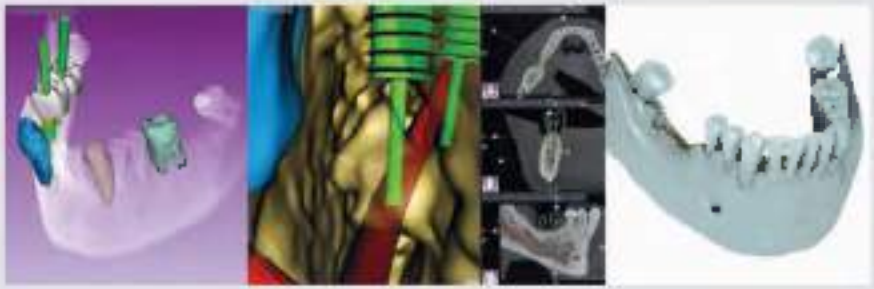
DENTAL EXAMINATIONS

- 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.

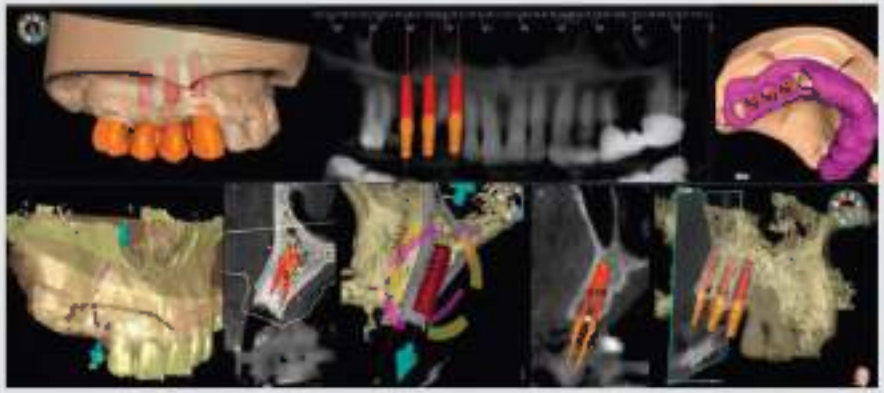
Improving workflow with the CLOUD-based multi-platform software.

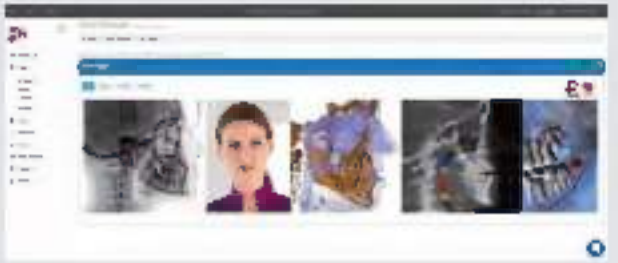
Compatible with PC, MAC, iPAD and iPhone, RealGUIDE allows for implant planning based on the many implant libraries constantly updated on the CLOUD platform. The MyRay RealGUIDE platform manages implant rehabilitation steps, streamlining CLOUD-based data sharing and providing all the essential elements 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.

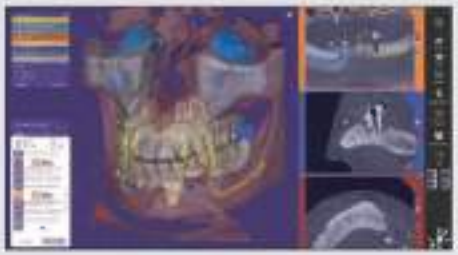
The implant is placed directly on the 3D model and combined with STL data from intraoral scanners to define the final prosthetic project. With advanced implant design tools you can work safely, thanks to accurate information on the available amount of bone and distance from the surrounding anatomical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





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.

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



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 µm

LOCAL (LOW DOSE) ANALYSIS

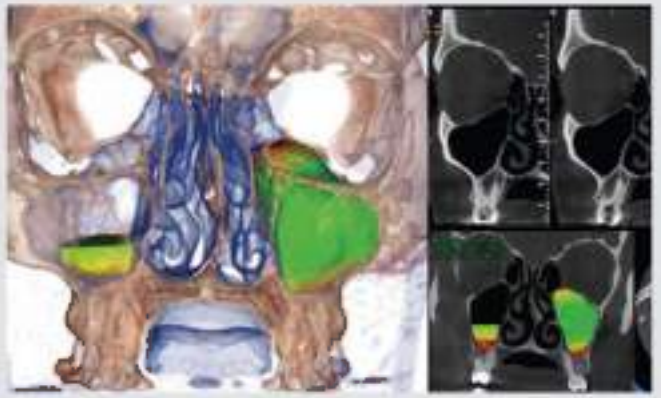
Detailed diagnostics within the region of interest only, far more in-depth than 2D examinations, for HD endodontic assessments; study of relationships between impacted teeth; post-op checks with fast scanning and doses equivalent to those of a 2D examination.

- 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.

IThe dedicated CMOS sensor (latest generation CsI) 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

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

TELERADIOGRAPHIC 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

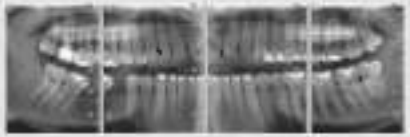
ORTHOGONAL PANORAMIC IMAGING

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

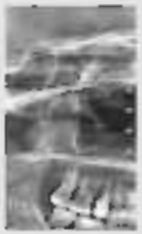
Study of dentition with optimised interproximal projection for improved periodontal control. Collimation on the crowns for patients unable to tolerate intraoral bitewings: more comfortable and less intrusive.

- 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.

TELERADIOGRAPHY

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)

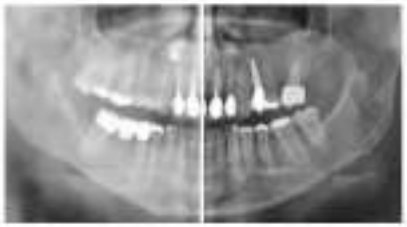
CONTROL VIA iPAD*

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)

3D
QUICKSCAN **6,4s**

2D
QUICKPAN **6,8s**
QUICKCEPH **3,7s**

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).

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

App Store

* 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.

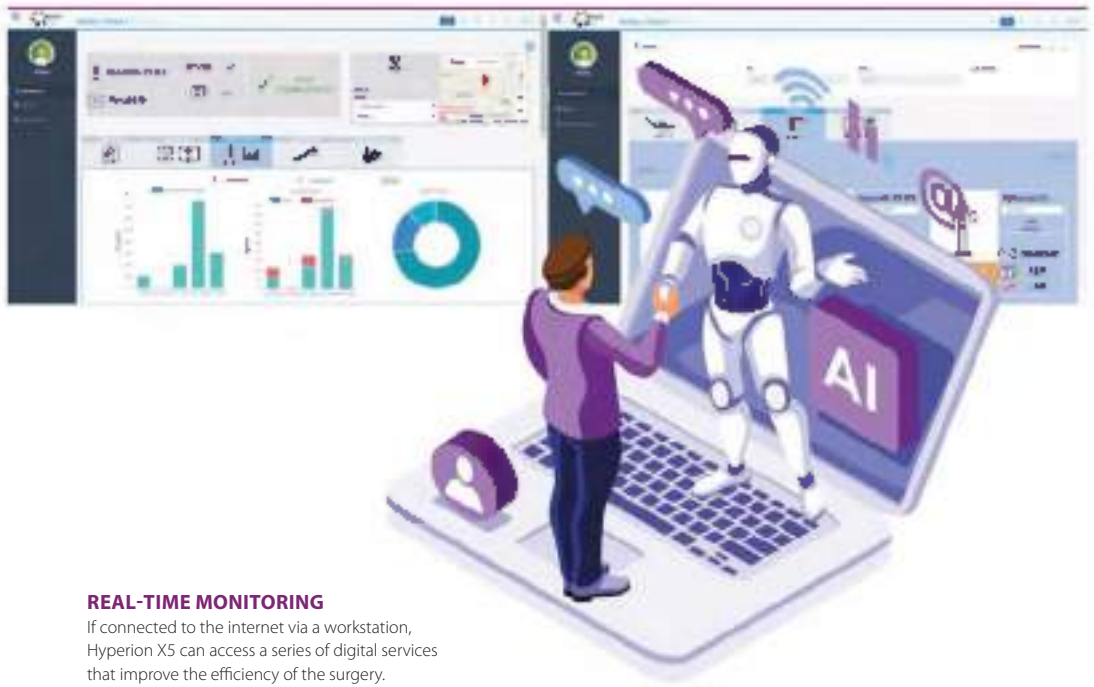
A platform suitable for sharing.

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.

EASY WORK

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.

FULL CONNECTIVITY

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

PLUG&PLAY

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

REMOTE ASSISTANCE

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.V.A. 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

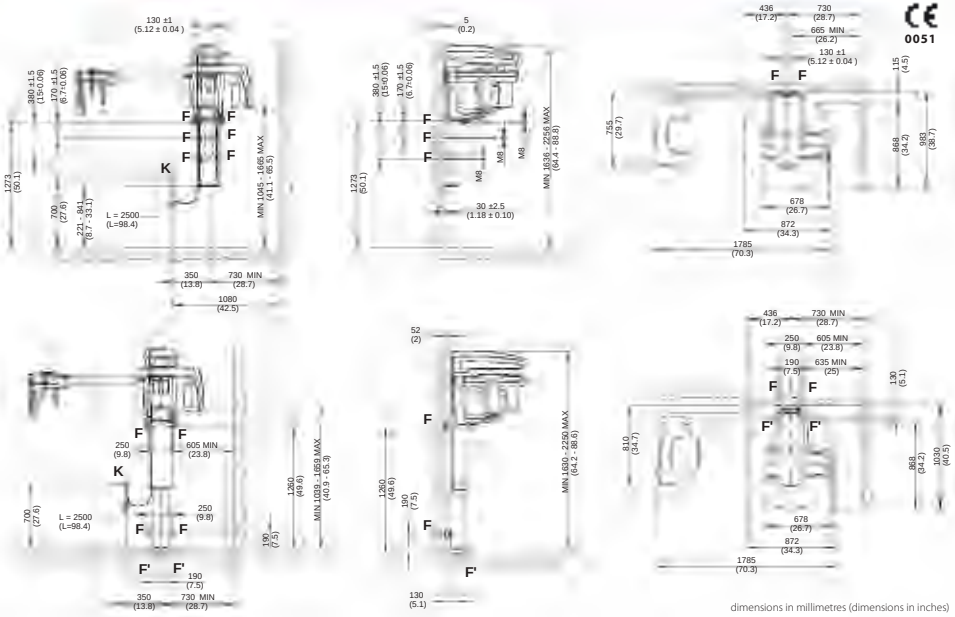
DETECTOR 2D PAN & CEPH	
Detector type	CMOS (CsI)
Dynamic range	14 bit (16384 grey levels)
Height	PAN: 148 mm CEPH: 223 mm

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 (CsI)
Dynamic range	16 bit (65536 grey levels)

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



myray
new comfort in digital imaging

cefla Making Your Life Better.

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

RAY OF SOLUTIONS

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 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.

*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 PANCEPH 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.

3 IN 1

READY

RAY OF
SOLUTIONS

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.

POWER IMAGING

RAY OF SOLUTIONS

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 AIR WAYS
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.

RAY OF SOLUTIONS

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: wonderfull 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.

RAY OF SOLUTIONS

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

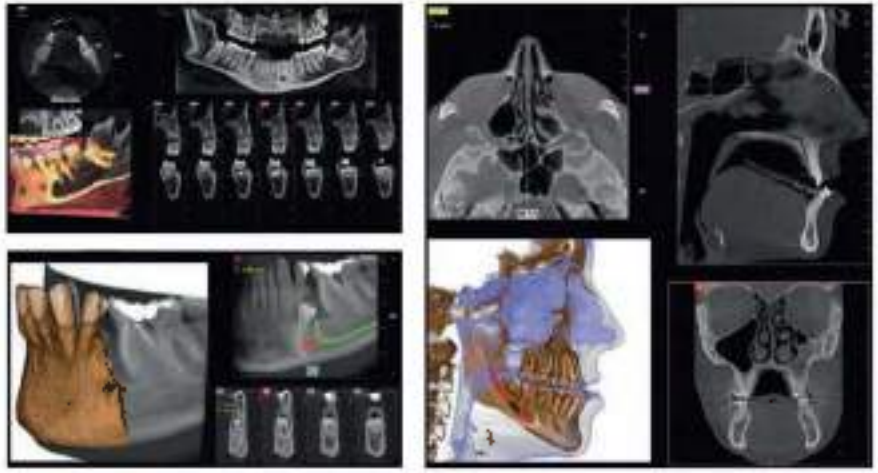
ADVANCED
- Dentition up to frontal sinuses: 13 x 16 cm
- Ascending mandibular branches: 13 x 10 cm
- Zygomatic arches and sinuses: 13 x 8 cm
- Maxillary sinuses: 10 x 10 cm
- Teeth: 4 x 4 cm (XF*)

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

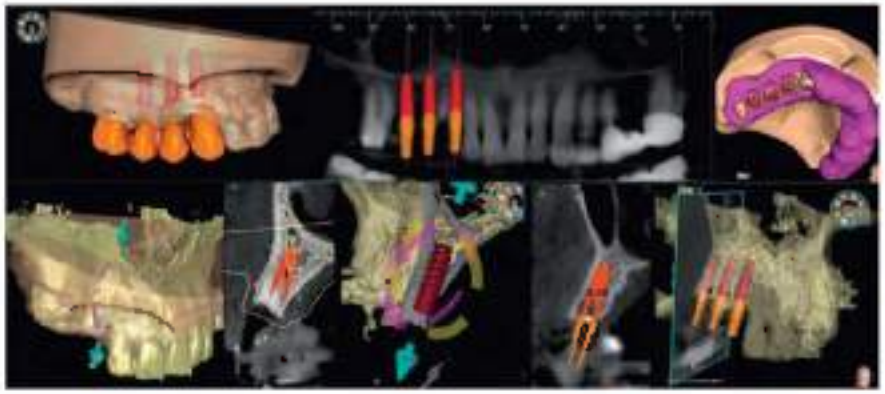
ORTHOPAEDIC EXAMS
- TMJ: 7 x 6 cm (XF*) open mouth/closed mouth
- Cervical spine: 9 x 9 cm (XF*) - Voxel 68 µm

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

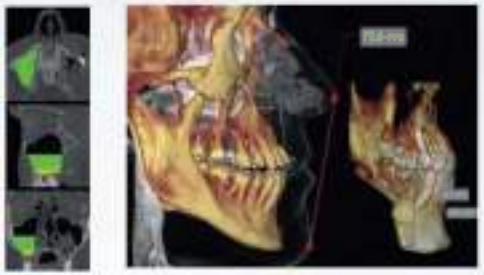
Position the equipment directly on the 3D model, combine it with the STL data from intraoral scanners and define the final prosthetic project. With the advanced implant planning tools* you will be able to operate safely thanks to accurate information on the amount of bone and the distance from the surrounding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

*Not available for Canada

RAY OF SOLUTIONS

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

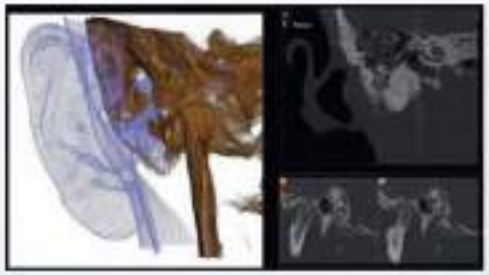
Volumes with 13 x 8 cm or 13 x 10 cm FOV are the perfect tool for zygomatic implant planning as the 13 cm diameter is the only one that makes it possible to include the entire zygomatic arch, without cuts.

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.



*Optional

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 DCIII & 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

TELERADIOGRAPHIC EXAMINATIONS

- Latero-lateral SuperHD projection (with DCIII 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 DCII sensor)
- Carpus projection

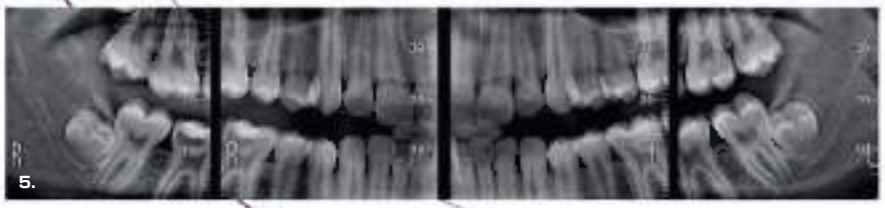
SMART COLLIMATION

Thanks to the patented primary servo-controlled collimator, it 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

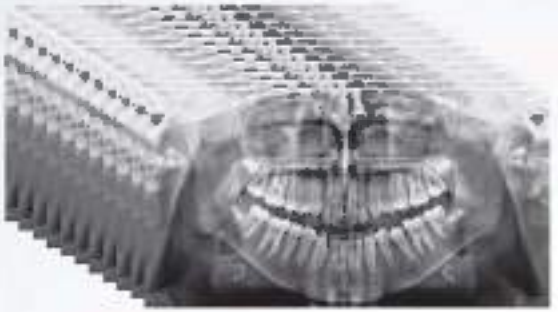
Hyperion X9 pro adapts perfectly to the examination of children and adult patients. In particular, the FULL CEPH positioning for children reduces exposure of tissues beneath the chin (and therefore the effective dose) and prevents contact between the sensor and the shoulders. Hence the operator can include,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

2D. CLINICAL CASES



Dental panoramic radiographs

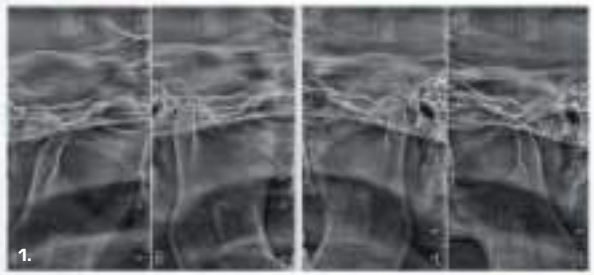
1. Orthogonal panoramic X-ray: minimises the overlapping of adjacent teeth and provides better periodontal analysis.
2. Fast panoramic X-ray: low dose and reduced scan time, perfect for primary investigations, follow-ups or uncooperative patients.
3. Child panoramic X-ray: limited exposure and optimised 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.

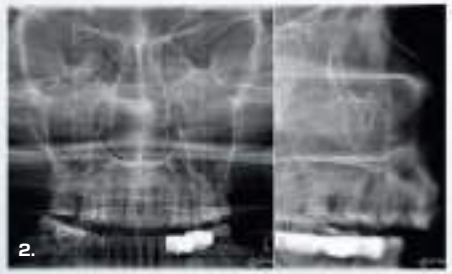


MULTIPAN SuperHD up to 11 layers

Innovative DC[II] 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.





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/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.

RAY OF SOLUTIONS

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

- 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.

MRT
(Patented)

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

RAY OF SOLUTIONS

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.

RAY OF SOLUTIONS

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.

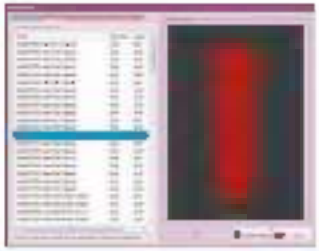
in according to EN ISO/IEC 17065:2012

* must not be used for primary diagnosis.

RAY OF SOLUTIONS

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.

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

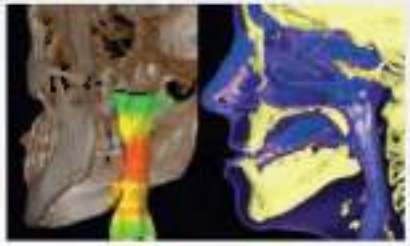
Being an advanced and reliable platform, iRYS provides you with a set of tools for diagnosis and treatment planning that delivers maximum performance at all times.
Among them, the exclusive filters to improve image definition and detail level, as well as the features to assess bone quality and analize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

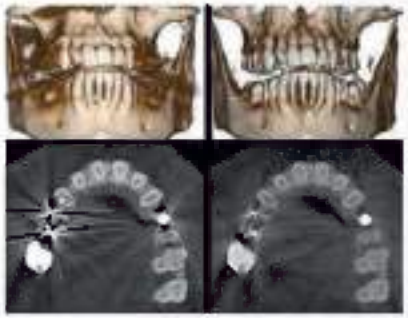


2D PiE

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.

* 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**

- 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

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.

FULL CONNECTIVITY

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

PLUG&PLAY

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

REMOTE ASSISTANCE

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

* must not be used for primary diagnosis.

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 (DCIII)
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

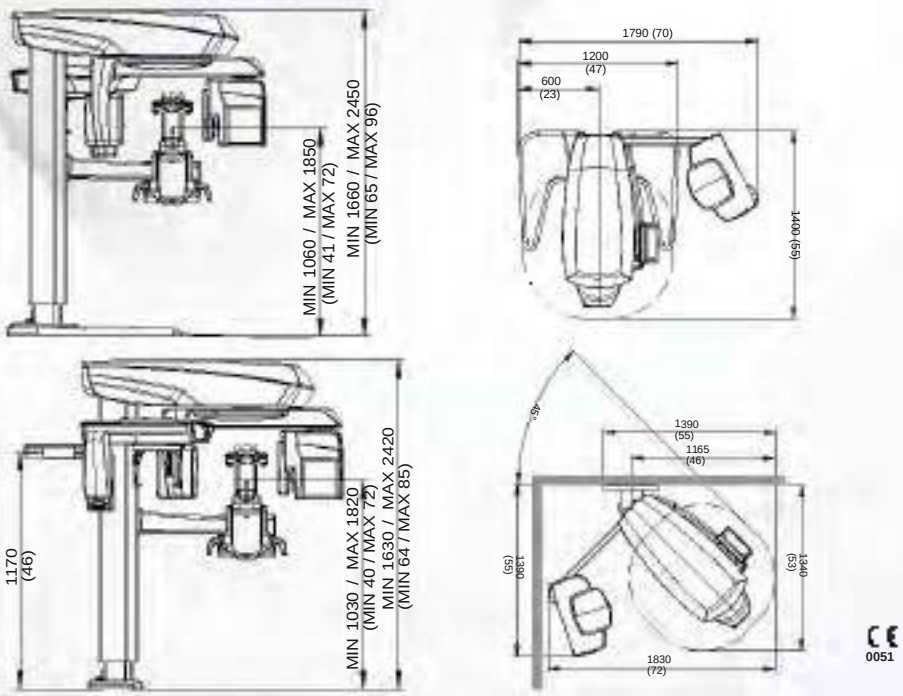
* Optional

RAY OF SOLUTIONS

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 (teleradiographic 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	DiV.A. 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)



dimensions in millimetres (dimensions in inches)

CE 0051

RAY OF SOLUTIONS

ProXIma X6

GB

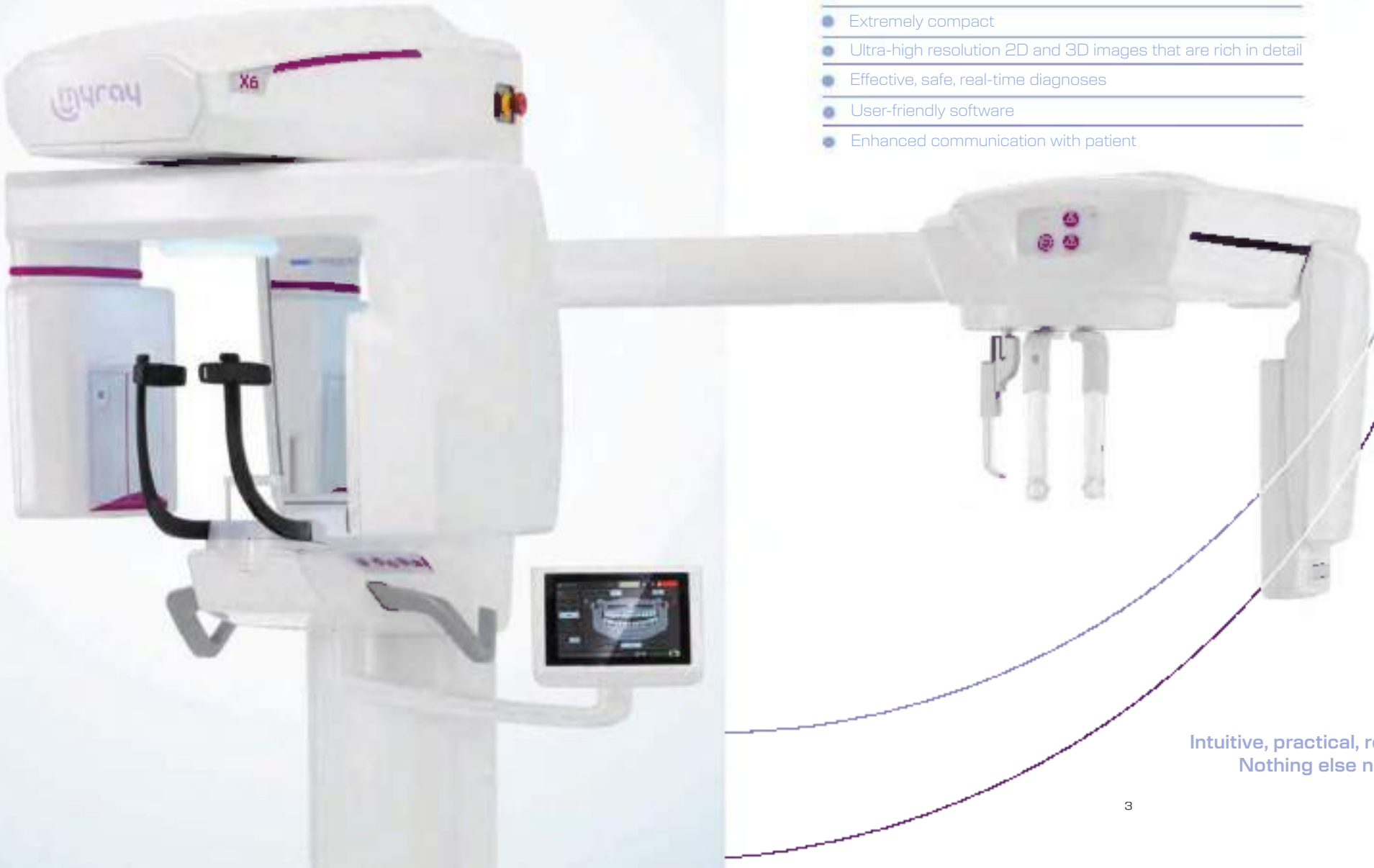
ProXIma X6
Professional X-ray Imaging

RAY OF SOLUTIONS

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.

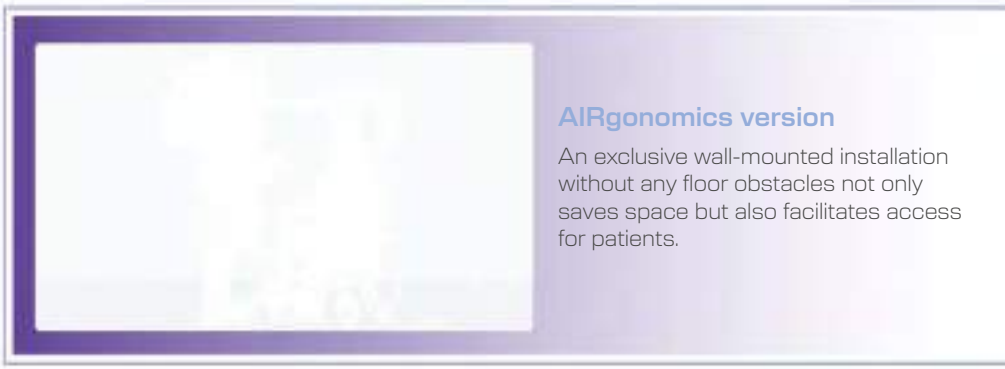
TAKES SHAPE AROUND YOU

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.

RAY OF SOLUTIONS



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.

- Waiting
- Ready for examination
- X-ray emission in progress
- Error detected
- 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.

RAY OF SOLUTIONS

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

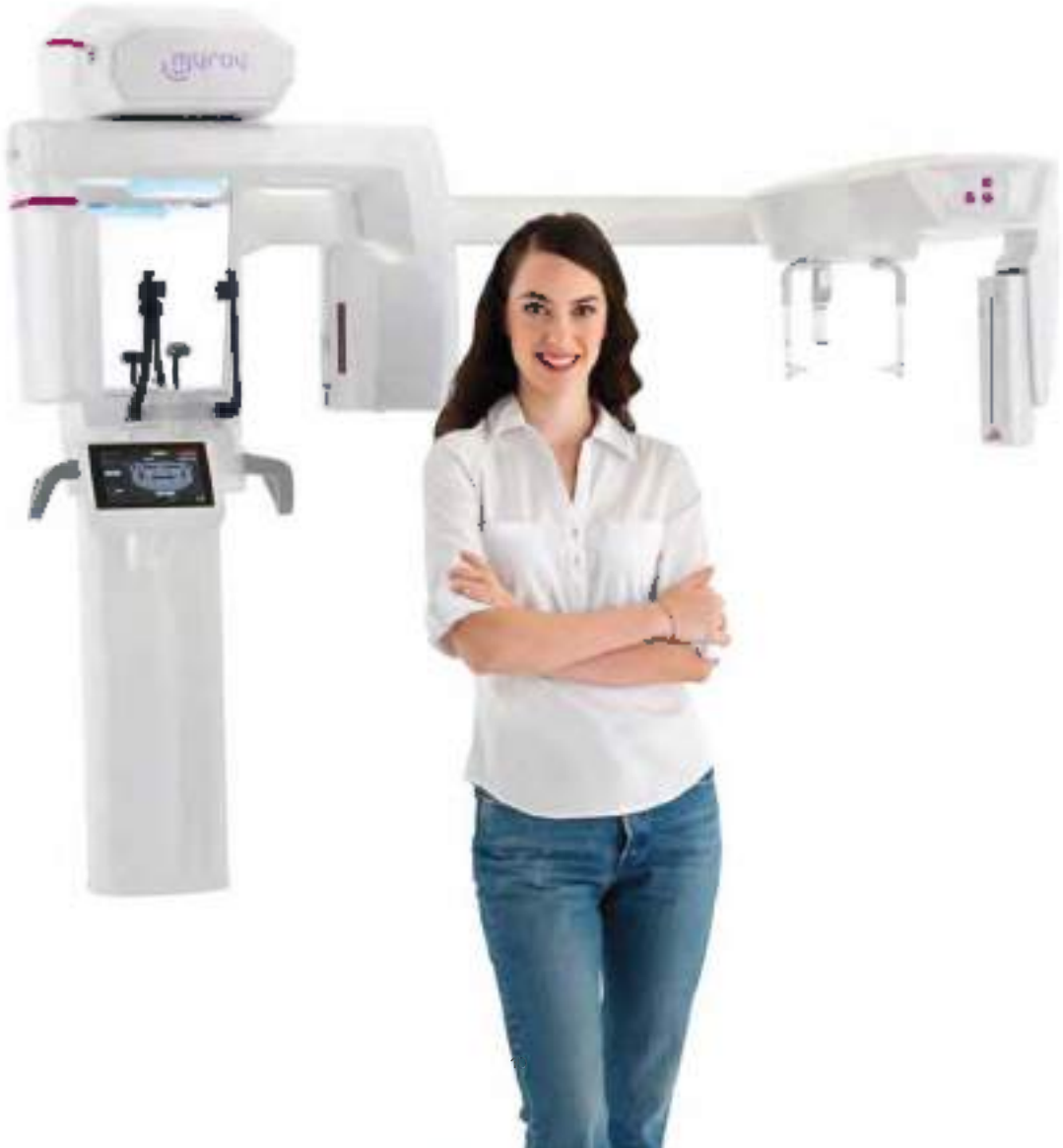
Ergonomically designed handles aid patient stability, ensuring patient posture is comfortable, safe and stable during an examination.

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.



RAY OF SOLUTIONS

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.

In paediatric cephalometric examinations, combining the protocol with the elongated ear pads protects the thyroid from exposure and minimizes the X-ray exposure for the child.

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.

Dose Saver configurations

Two pre-settable MRT panoramic imaging modes ("80" and "100") lower the dose received by the patient significantly, with a delta of 20%.

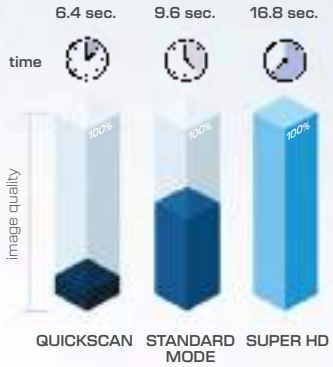
DISCOVER THE DEPTH OF 3D

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.

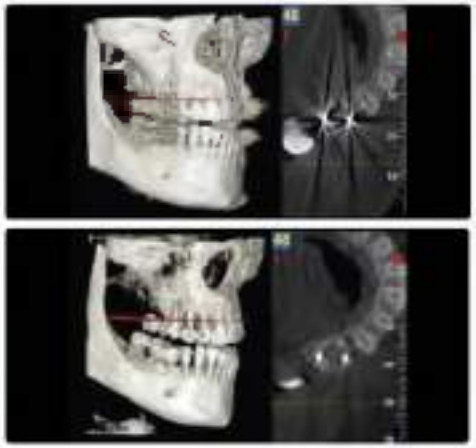
Optimised 3D scanning protocols

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

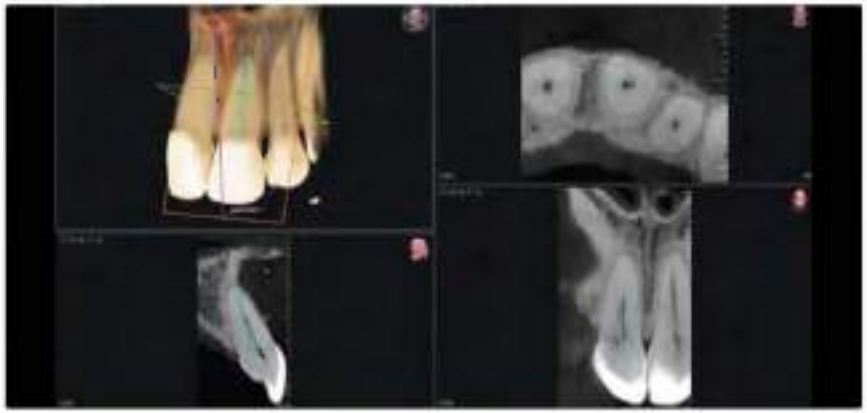
A dedicated support and protocol are also available for fast scanning of prostheses, radiological templates, models and impressions.

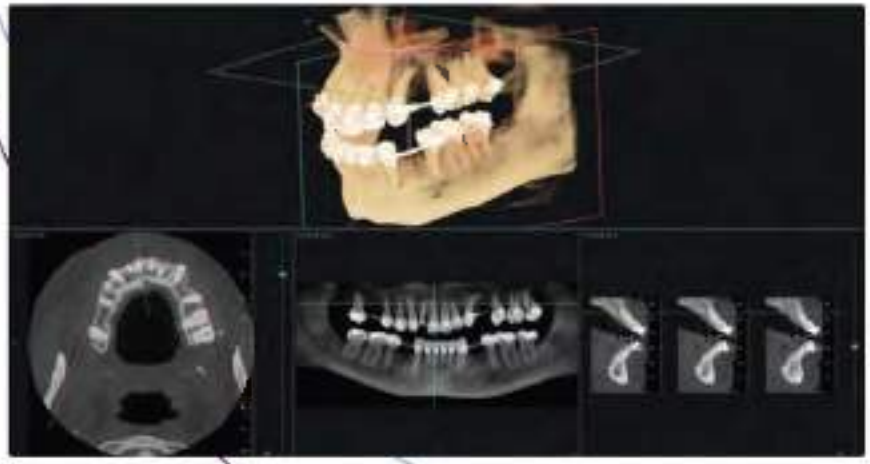
3D dental exams

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.

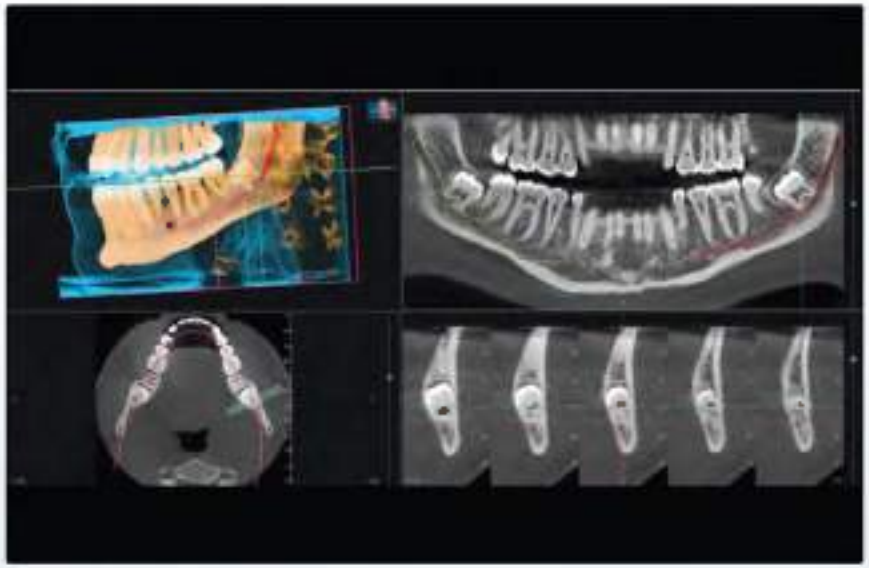
• Typical FOVs for dental exams on adult or paediatric patients:

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





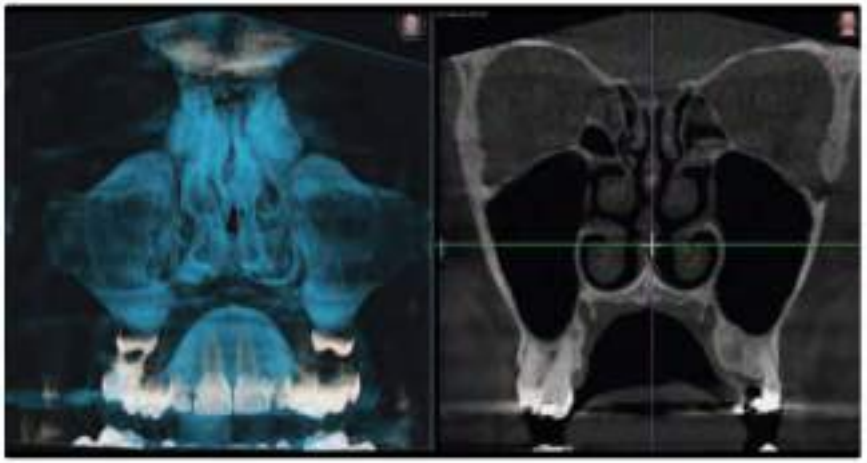
RAY OF SOLUTIONS

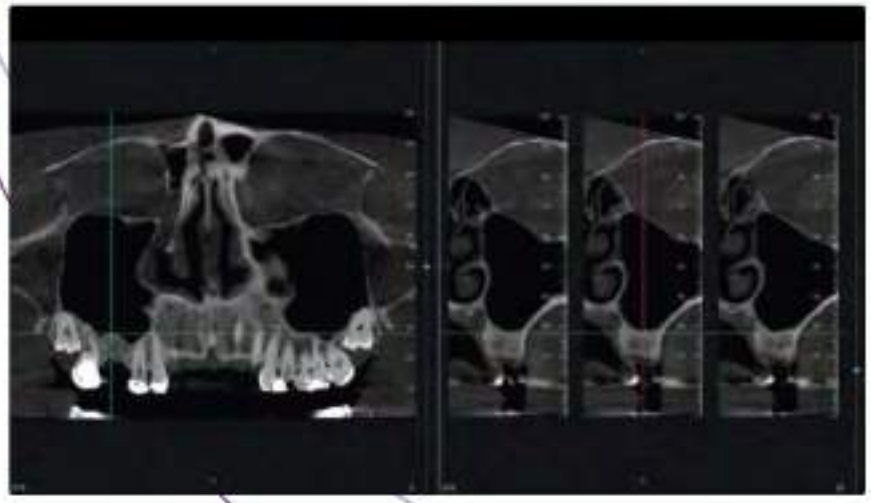


3D sinus exams

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

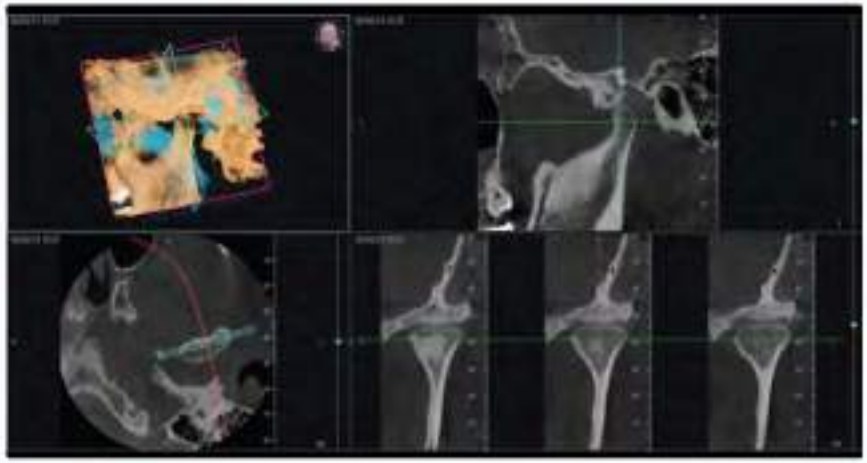


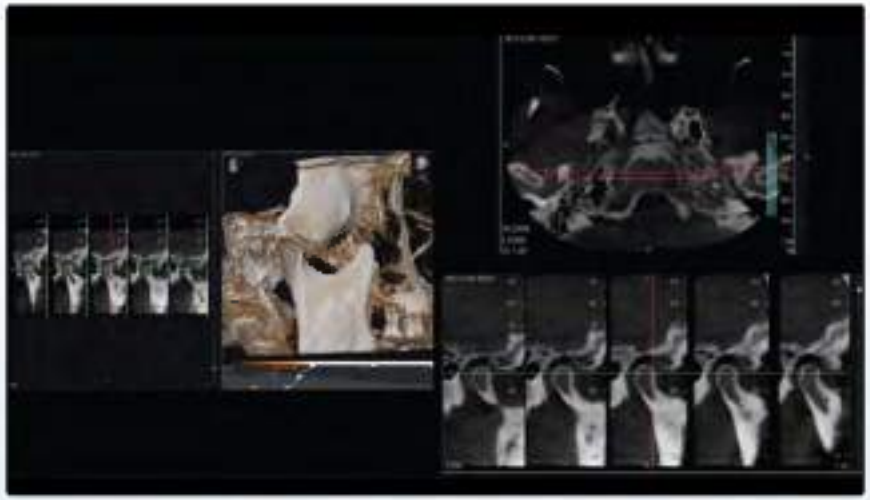


3D temporomandibular joint exams

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)



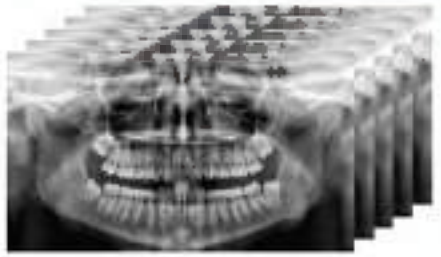


2D IMAGING THAT'S A MUST-HAVE

RAY OF SOLUTIONS

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.

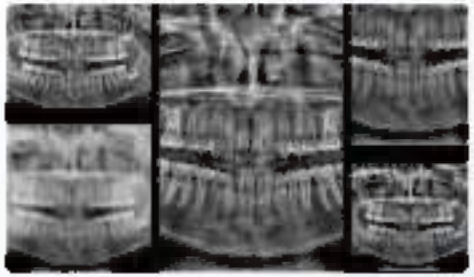


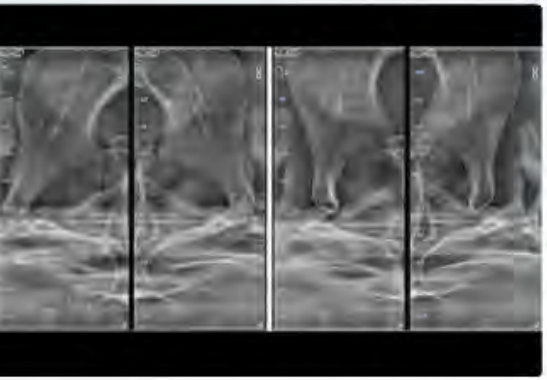
iPAN function (Focus-Free)

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

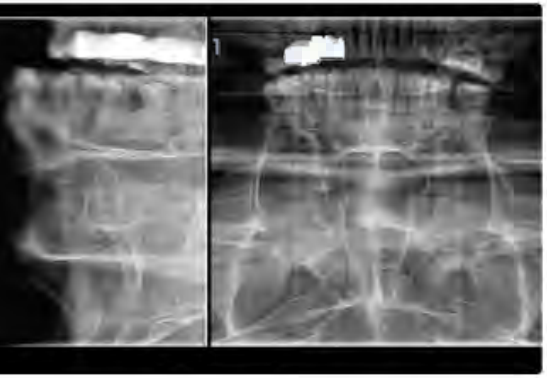
These automatically optimise each layer captured with the MultiPAN function thanks to self-adaptive filters that act on the sharpness and detail of the different anatomical areas according to user-applied settings.





Standard Panoramic

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

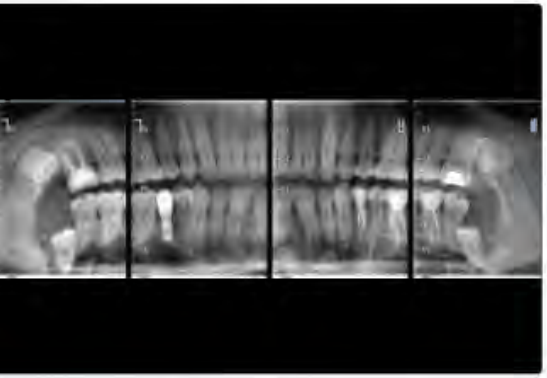


Orthogonal panoramic

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.

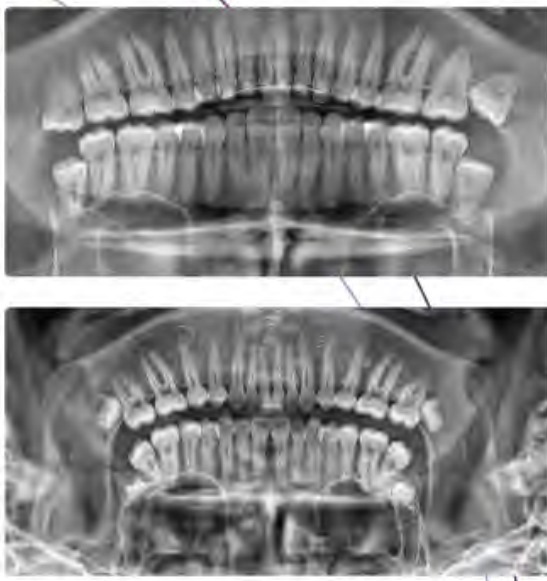


Dentition

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.

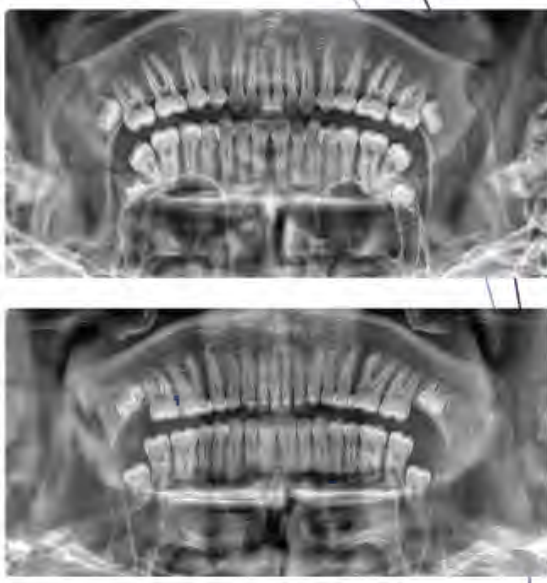
Bitewings

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.

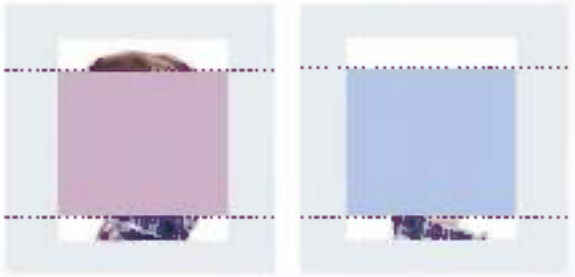
RAY OF SOLUTIONS

Repositionable 2D PAN/CEPH sensor

ProXIma X6 allows you to perform both panoramic and cephalometric exams using the 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.

RAY OF SOLUTIONS

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 teleradiography 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

Data import

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

02

Database management

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

03

Device configuration

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

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

Sharing treatment

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

06

RAY OF SOLUTIONS

RAY OF SOLUTIONS

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	

CE 0051

myray new comfort in digital imaging

cefla Making Your Life Better.

MX6PGB241500 1172024

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

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

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

RAY OF SOLUTIONS

MyScan WL

EN

THE SOLUTION YOU'VE BEEN WAITING FOR

MyScan WL is a wireless scanner that uses AI algorithms to deliver a streamlined, comfortable digital workflow for everyone. The first scanner to feature wireless charging, immediate start-up and a long-lasting battery, MyScan WL is the perfect partner for ultramodern practices.
Top performer.

SLEEP MODE & INSTANT WAKE

WIRELESS CHARGING

BACKUP BATTERY
in the charging base

AI ALGORITHMS
for assisted soft tissue removal

GYROSCOPE
for remote control of the digital flow

CALIBRATION
NOT REQUESTED

AUTOCLAVABLE TIPS
in two dimensions

18mm

DEPTH OF FIELD

AUTONOMY
60 cases on a single charge

DUAL SCAN BUTTON
to control the stages of acquisition

245 g.

LIGHTNESS
Maximum comfort

IMPACT RESISTANT
thanks to a design that shields the internal optics

20µm

ACCURACY
of full-arch scan

DEDICATED FILTERS
to highlight and sharpen details and provide realistic images

MAXIMUM SCAN QUALITY, ERGONOMICS AND FLUIDITY OF USE

Everything to streamline and simplify your work

- Effective communication with patients
- Integrated gyroscope
- Easy transfer between workstations
- Assisted acquisition with AI

Give your patient a comfortable, surprising experience. All the advantages of digital scanning and the effectiveness of communication based on high-impact images. Thanks to the integrated gyroscope, no mouse or keyboard is needed to manage acquisition flows: everything can be done with the handpiece as if it were a remote control. The AI can be modulated to different intensities: this means you can opt out of acquiring tongue, lips, fingers or other objects that might have an effect on data quality. Wireless design makes handling the scanner easy, especially in practices with multiple workstations.

RAY OF SOLUTIONS

MAXIMUM SCAN QUALITY

Manage all clinical applications independently with MyScan WL. Full-arch accuracy of 20 µm.

EXCELLENT IMAGES

Choose one of the two image display modes:
- realistic colours for effective, engaging communication with the patient.
- sharp details to assess and/or verify complex oral cavity situations.

EVERYTHING IN SECONDS

Obtain digital models of the dental arches in just a few seconds thanks to high-performance AI and a camera with an ultra-high frame rate.

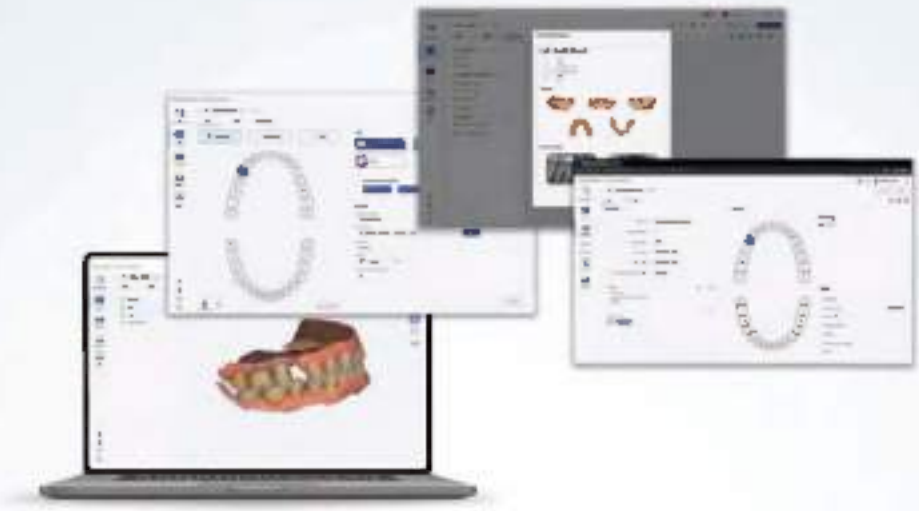
MYSCAN CONNECT, OPTIMISE YOUR WORKFLOW

Web platform, constantly evolving clinical and communication applications

- Automatic cloud synchronisation
- Effective communication with patients
- Web version for multi-platform use
- Extensive integrated APP Store

Operate in-cloud and manage data both inside and outside the practice.
Immediate, intuitive communication with patients.
The APP Store lets you install and update the available applications, ensuring maximum MyScan WL performance and compatibility at all times.
Expand and complete digital workflows with plug-ins for the integration of 3D printers or third-party services.

RAY OF SOLUTIONS



Just a few simple steps

Enter the patient data, create the order form and scan.
The data auto-synchronization tool makes all patient models and images immediately available (both locally and in-cloud).
You'll be able to check, share or request a restoration from the lab or service center, also remotely via PC, Mac, tablet or smartphone, at any time.

SCANPRO, THE SCAN FOR YOU

A full range of functions to improve and simplify clinical applications

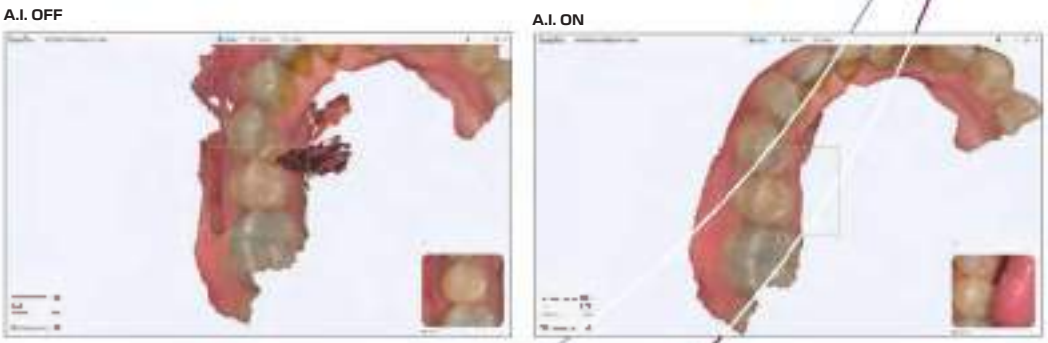
- Wide range of clinical instruments
- High definition
- Simultaneous acquisition of 2D and 3D images
- Camera mode

Take advantage of tools for linear or interocclusal distance measurements, for detecting undercuts, checking scan quality and applying high definition to specific anatomical areas.
MyScan WL features advanced image capture technology that lets users simultaneously record not only 3D images but also photographs of the oral cavity, all of which, thanks to the Intraoral Camera tool, can be consulted and shared at all times.
Highly useful for enhancing dentist-patient communication or sending photographic close-ups to the lab.

RAY OF SOLUTIONS

Assisted acquisition with ai

Fast, clean, precise scans. Artificial intelligence performs automatic real-time removal of soft tissues, artifacts or duplications, maximising performance.



USER-FRIENDLY DIGITAL WORKFLOWS

Make the patient 'virtual', design and revolutionize communication

- Integration with CBCT devices
- Automatic updates
- Applications for creation of the 'virtual patient'
- Added value for the practice

A broad portfolio of clinical-communicative applications that combines the benefits of outstanding optics and three-dimensional radiology enhances your investment and constantly renews it with automatic updates.
You'll have tools that let you 'virtualise' the patient, design the smile, compare oral health states, work in chairside mode or engage in prosthetically-guided implant surgery... and much more.

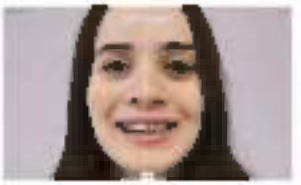
Oral Health Report
Automatically produce a patient oral health report.

Model Builder
Create, save and print your digital plaster cast collection.

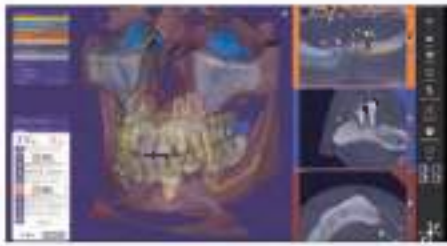
Mesh Compare
Compare two scans and see how treatment is progressing.

Ortho Simulation
Present a treatment proposal using virtual planning.

Smile Design
Share treatment with your patient in a way that enhances understanding and effectiveness.



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.

HANDPIECE	
Weight	245 g
Dimensions (mm)	248 x 48 x 37
Power supply	Not necessary
Remote Control	YES
Keys	(Start scan & Mode)
Connectivity	Wireless
Batteries	2 pcs
Charging	Wireless system incorporated in the handpiece base (also for backup battery)
Duration of a single battery	More than two hours with continuous scanning (about 60 cases)
SCANNING	
Accuracy (full arch)	20.0 µm
Acquisition depth	18 mm
Field of view (mm)	16 x 14 (with Large Tip) 12 x 12 (with Small Tip)
Calibration	Not necessary
Tip dimensions	22 x 18 mm (with Large Tip) 18 x 16 mm (with Small Tip)
Sterilisation	Autoclavable, over 60 cycles - 134°C for 4 minutes
SOFTWARE FUNCTIONS INCLUDED	
MyScan Connect	Patient data and image management
MyScan Connect WEB	Patient data and image management web platform
Auto-Synchronisation in the Cloud	YES
APP Store	Clinical and communicative applications can be downloaded, installed and updated
Scan Acquisition	Acquisition software with clinical tools (measurement, drawing of margin line, undercut check, etc.)
Artificial Intelligence	YES (to remove soft tissues or artifacts from the scan)
APPS INCLUDED	
Smile Design	Aesthetic design of smile (requires acquired extraoral photos captured with camera or other device)
Oral Health Report	Report to share patient's oral health status with the patient or the digital partner
Compare	Comparison of different acquisitions and monitoring of treatment progress
Ortho Simulation	Orthodontic simulation performed via AI on digital models of the patient (for communicative purposes only)
Model Builder	Finalisation of models and preparation for printing (digitalization of the plaster cast collection)
MINIMUM AND RECOMMENDED PC REQUISITES	
Supported operating systems	Microsoft® Windows® 10 (Professional 64 bit) and 11
Processor	LAPTOP: 11th generation Intel® Core™ i5-11400H or AMD Ryzen™ 7 5700U (minimum) 11th generation Intel® Core™ i7-11800H or AMD Ryzen™ 7 5800H (recommended) DESKTOP: 10th generation Intel® Core™ i5-10600 or AMD Ryzen™ 5 3600 (minimum) 11th generation Intel® Core™ i7-10700 or AMD Ryzen™ 7 3700X (recommended)
RAM	16 GB (minimum), 32 GB (recommended)
Graphics card	LAPTOP: Nvidia GeForce GTX 1660 6 GB (minimum), Nvidia GeForce RTX 2070 Super 8 GB (recommended) DESKTOP: Nvidia GeForce GTX 1660 Ti 6 GB (minimum), Nvidia GeForce RTX 2060 Super 8 GB (recommended)
Ports	USB 3.2 Gen1 Type-A
Monitor	120 x 1080, 60Hz
Conformity	IEC60950, IEC60601-1, IEC60601-1-2 (EMC)

MSCWLGB251500 07/2025

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

RAY OF SOLUTIONS

MyScan WR

EN

THE POWER OF DIGITAL

The MyScan WR intraoral scanner simplifies the transition to digital.
Plug & play connectivity, thanks to a single, removable and replaceable USB cable means you can work anywhere.
A light handpiece and the use of artificial intelligence ensure extremely fast, user-friendly image capture.
Light, easy, advanced.

AI ALGORITHMS
for assisted soft tissue removal

18mm

DEPTH OF FIELD

CALIBRATION
NOT REQUESTED

AUTOCLAVABLE TIPS
in two dimensions

GYROSCOPE
for remote control of the digital flow

20µm

ACCURACY
of full-arch scan

DUAL SCAN BUTTON
to control the stages of acquisition

175 g.

DEDICATED FILTERS
to highlight and sharpen details and provide realistic images

LIGHTNESS
Maximum comfort

SINGLE CABLE
USB 3.0

IMPACT RESISTANT
thanks to a design that shields the internal optics

SIMPLIFIED WORKFLOWS

Freedom of movement and secure results thanks to cutting-edge MyScan WR engineering solutions

- Extremely manageable
- Single connection cable
- Integrated gyroscope
- Assisted acquisition with AI

Outstanding ergonomics with the ultra-light handpiece weighing just 175 grams. MyScan WR is computer-connected with a single USB cable: no additional converters or cables to get in the way. Thanks to the integrated gyroscope, no mouse or keyboard is needed to manage acquisition flows: everything can be done with the handpiece as if it were a remote control. The AI can be modulated to different intensities: this means you can opt out of acquiring tongue, lips, fingers or other objects that might have an effect on data quality.

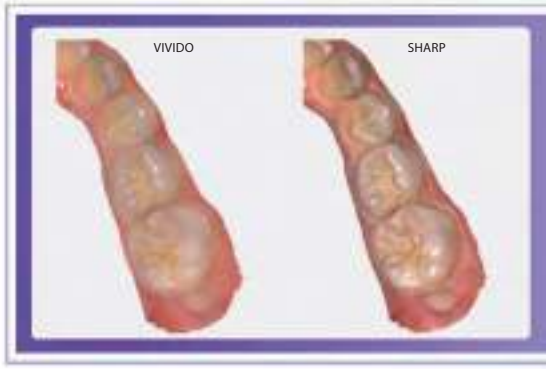
RAY OF SOLUTIONS

Maximum scan quality

Manage all clinical applications independently with MyScan WR. Full-arch accuracy of 20 µm.

Futuristic architecture

The MyScan WR set-up is decidedly future-focused. Innovative soft tissue removal functions. Advanced image processing algorithms and the Vivid filter let you obtain sharp, detailed models to ensure rewarding, meaningful engagement with the patient.
The Sharp filter lets you maximise sharpness of every detail so you can assess and/or verify even the most complex oral cavity situations.



Everything in seconds

Obtain digital models of the dental arches in just a few seconds thanks to high-performance AI and a camera with an ultra-high frame rate.

MYSCAN CONNECT, OPTIMISE YOUR WORKFLOW

Web platform, constantly evolving clinical and communication applications

- Automatic cloud synchronisation
- Effective communication with patients
- Web version for multi-platform use
- Extensive integrated APP Store

Operate in-cloud and manage data both inside and outside the practice.
Immediate, intuitive communication with patients.
The APP Store lets you install and update the available applications, ensuring maximum MyScan WR performance and compatibility at all times.
Expand and complete digital workflows with plug-ins for the integration of 3D printers or third-party services.

RAY OF SOLUTIONS

Just a few simple steps

Enter the patient data, create the order form and scan.
The data auto-synchronization tool makes all patient models and images immediately available (both locally and in-cloud).
You'll be able to check, share or request a restoration from the lab or service center, also remotely via PC, Mac, tablet or smartphone, at any time.

SCANPRO, THE SCAN FOR YOU

A full range of functions to improve and simplify clinical applications

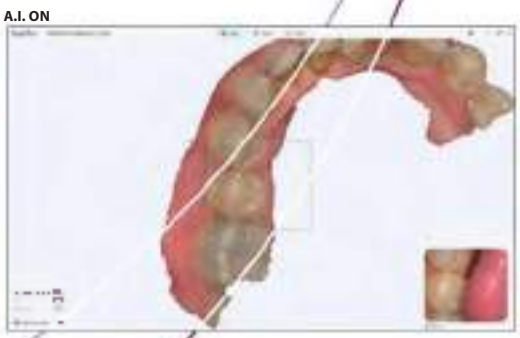
- Wide range of clinical instruments
- High definition
- Simultaneous acquisition of 2D and 3D images
- Camera mode

Take advantage of tools for linear or interocclusal distance measurements, for detecting undercuts, checking scan quality and applying high definition to specific anatomical areas. MyScan WR features advanced image capture technology that lets users simultaneously record not only 3D images but also photographs of the oral cavity, all of which, thanks to the Intraoral Camera tool, can be consulted and shared at all times. Highly useful for enhancing dentist-patient communication or sending photographic close-ups to the lab.

RAY OF SOLUTIONS

Assisted acquisition with ai

Fast, clean, precise scans. Artificial intelligence performs automatic real-time removal of soft tissues, artifacts or duplications, maximising performance.



USER-FRIENDLY DIGITAL WORKFLOWS

Make the patient 'virtual', design and revolutionize communication

- Integration with CBCT devices
- Automatic updates
- Applications for creation of the 'virtual patient'
- Added value for the practice

A broad portfolio of clinical-communicative applications that combines the benefits of outstanding optics and three-dimensional radiology enhances your investment and constantly renews it with automatic updates.
You'll have tools that let you 'virtualise' the patient, design the smile, compare oral health states, work in chairside mode or engage in prosthetically-guided implant surgery... and much more.

Oral Health Report
Automatically produce a patient oral health report.

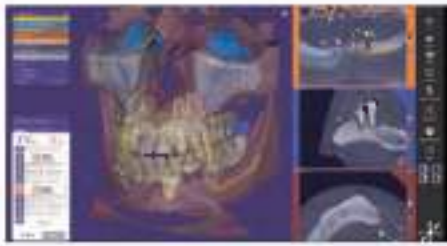
Model Builder
Create, save and print your digital plaster cast collection.

Mesh Compare
Compare two scans and see how treatment is progressing.

Ortho Simulation
Present a treatment proposal using virtual planning.

Smile Design
Share treatment with your patient in a way that enhances understanding and effectiveness.

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.

HANDPIECE	
Weight	175 g
Dimensions (mm)	175 x 49 x 39
Power supply	Not necessary
Remote Control	YES
Keys	(Start scan & Mode)
Connectivity	USB-A 3-0
Cable length	180 cm
Replaceable cable	YES (directly in the practice)
SCANNING	
Accuracy (full arch)	20.0 µm
Acquisition depth	18 mm
Field of view (mm)	16 x 14 (with Large Tip) 12 x 12 (with Small Tip)
Calibration	Not Necessary
Tip dimensions	22 x 18 mm (with Large Tip) 18 x 16 mm (with Small Tip)
Sterilisation	Autoclavable, over 60 cycles - 134°C for 4 minutes
SOFTWARE FUNCTIONS INCLUDED	
MyScan Connect	Patient data and image management
MyScan Connect WEB	Patient data and image management web platform
Auto-Synchronisation in the Cloud	YES
APP Store	Clinical and communicative applications can be downloaded, installed and updated
Scan Acquisition	Acquisition software with clinical tools (measurement, drawing of margin line, undercut check, etc.)
Artificial Intelligence	YES (to remove soft tissues or artifacts from the scan)
APPS INCLUDED	
Smile Design	Aesthetic design of smile (requires acquired extraoral photos captured with camera or other device)
Oral Health Report	Report to share patient's oral health status with the patient or the digital partner
Mesh Compare	Comparison of different acquisitions and monitoring of treatment progress
Ortho Simulation	Orthodontic simulation performed via AI on digital models of the patient (for communicative purposes only)
Model Builder	Finalisation of models and preparation for printing (digitalization of the plaster cast collection)
MINIMUM AND RECOMMENDED PC REQUISITES	
Supported operating systems	Microsoft® Windows® 10 (Professional 64 bit) and 11
Processor	LAPTOP: 11th generation Intel® Core™ i5-11400H or AMD Ryzen™ 7 5700U (minimum) 11th generation Intel® Core™ i7-11800H or AMD Ryzen™ 7 5800H (recommended) DESKTOP: 10th generation Intel® Core™ i5-10600 or AMD Ryzen™ 5 3600 (minimum) 11th generation Intel® Core™ i7-10700 or AMD Ryzen™ 7 3700X (recommended)
RAM	16 GB (minimum), 32 GB (recommended)
Graphics card	LAPTOP: Nvidia GeForce GTX 1660 6 GB (minimum), Nvidia GeForce RTX 2070 Super 8 GB (recommended) DESKTOP: Nvidia GeForce GTX 1660 Ti 6 GB (minimum), Nvidia GeForce RTX 2060 Super 8 GB (recommended)
Ports	USB 3.2 Gen1 Type-A
Monitor	120 x 1080, 60Hz
Conformity	IEC60950, IEC60601-1, IEC60601-1-2 (EMC)

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

MSCWRGB251S00 07/2025

myray
new comfort
in digital imaging

www.my-ray.com

Hyperion X5

3D/2D Ceph suspended imaging system

myray
new comfort
in digital imaging

cefla

BU Medical Equipment

Plant - Via Bicocca, 14/c - 40026 Imola - Bo (Italy) tel. +39 0542 653441 - fax +39 0542 653555
Headquarters - Cefla s.c. Via Selice Provinciale, 23/a - 40026 Imola - Bo (Italy) tel. +39 0542 653111 - fax +39 0542 653344
Cefla North America, Inc. 6125 Harris Technology Blvd. Charlotte, NC 28269 - U.S.A. Toll Free: (+1) 800.416.3078 Fax: (+1) 704.631.4609

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

MRT
(Patented)

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

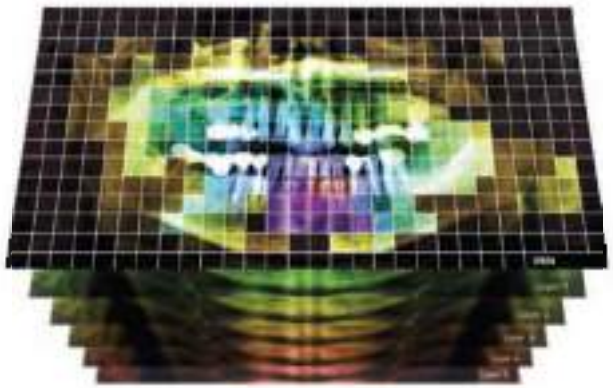
3D images with ultra-fast scans at low doses and very high resolution (Voxel **80 µm**) over the complete dentition, combined with dedicated FOVs developed to obtain consistently excellent results. Complete dental diagnosis, including assessment of maxillary sinuses.

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

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

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.

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

FOV 10 X 10 CM DENT | FOV 10 X 10 CM SIN | FOV 10 X 6 CM | FOV 10 X 7 CM

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.

FOV 8 X 6 CM | FOV 8 X 7 CM | FOV 6 X 6 CM | FOV 6 X 7 CM

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

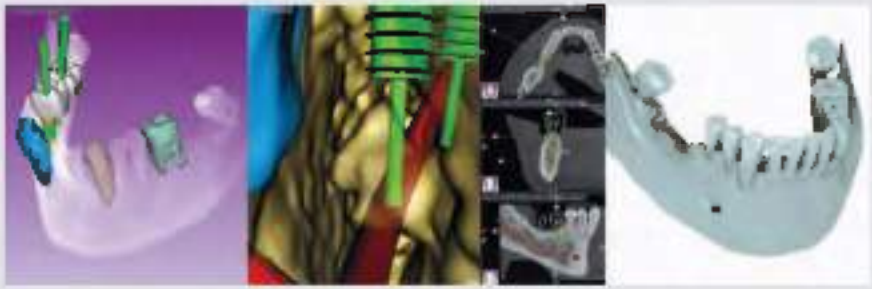
DENTAL EXAMINATIONS

- 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.

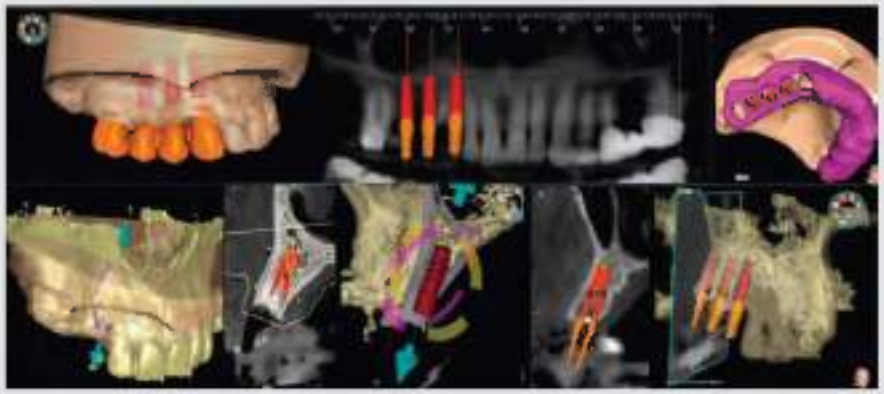
Improving workflow with the CLOUD-based multi-platform software.

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.



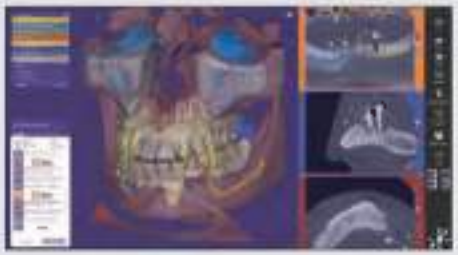
Advanced implant planning.

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.



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.

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



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 µm

LOCAL (LOW DOSE) ANALYSIS

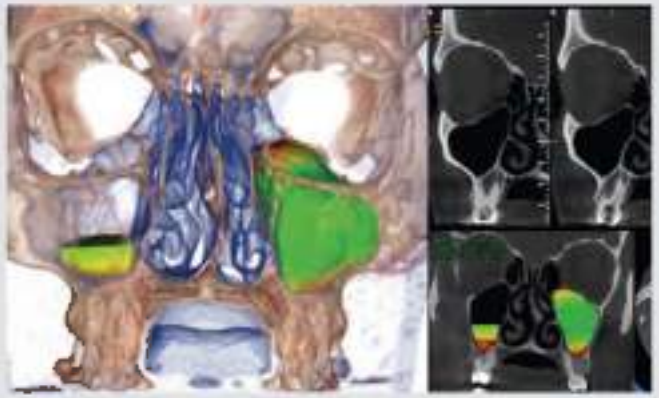
Detailed diagnostics within the region of interest only, far more in-depth than 2D examinations, for HD endodontic assessments; study of relationships between impacted teeth; post-op checks with fast scanning and doses equivalent to those of a 2D examination.

- 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.

IThe dedicated CMOS sensor (latest generation CsI) 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

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

TELERADIOGRAPHIC 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.

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.

STANDARD positioning
Conventional rods are used

TOP CEPH positioning
Long rods are used

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

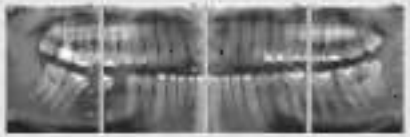
ORTHOGONAL PANORAMIC IMAGING

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 bitewings: 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.

TELERADIOGRAPHY

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)

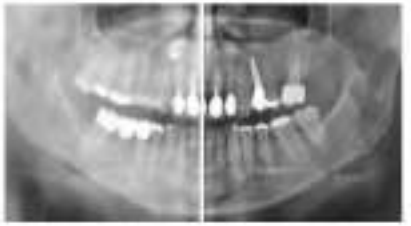
CONTROL VIA iPAD*

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)

3D
QUICKSCAN **6,4s**

2D
QUICKPAN **6,8s**
QUICKCEPH **3,7s**

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).

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

App Store

* 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.

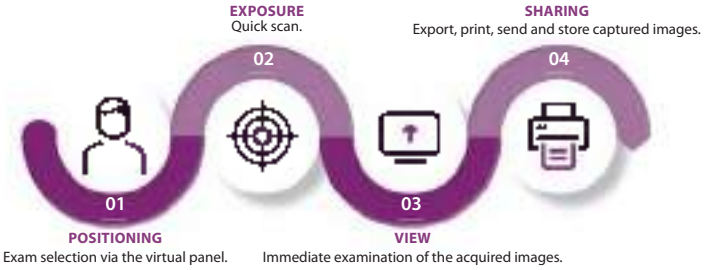
A platform suitable for sharing.

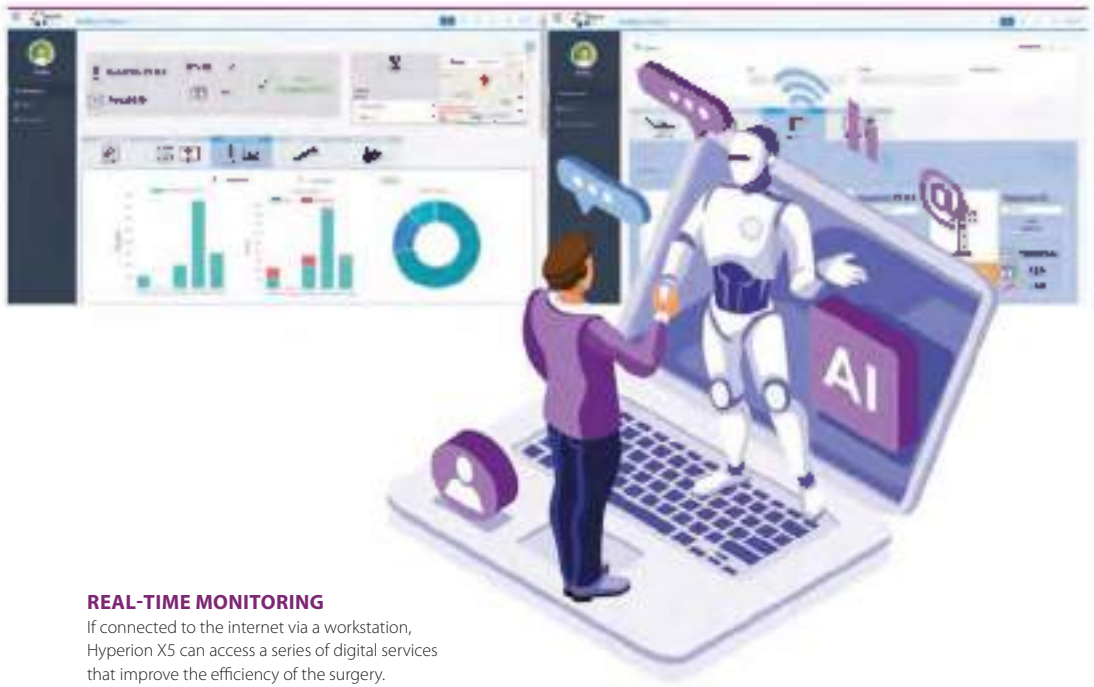
The images acquired and processed with iRYS are compatible with the surgery management software or other processing and storage software. iRYS is DATA PROTECTION certified and IHE compliant with DICOM networks.

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.

EASY WORK

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.

FULL CONNECTIVITY

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

PLUG&PLAY

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

REMOTE ASSISTANCE

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.V.A. 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

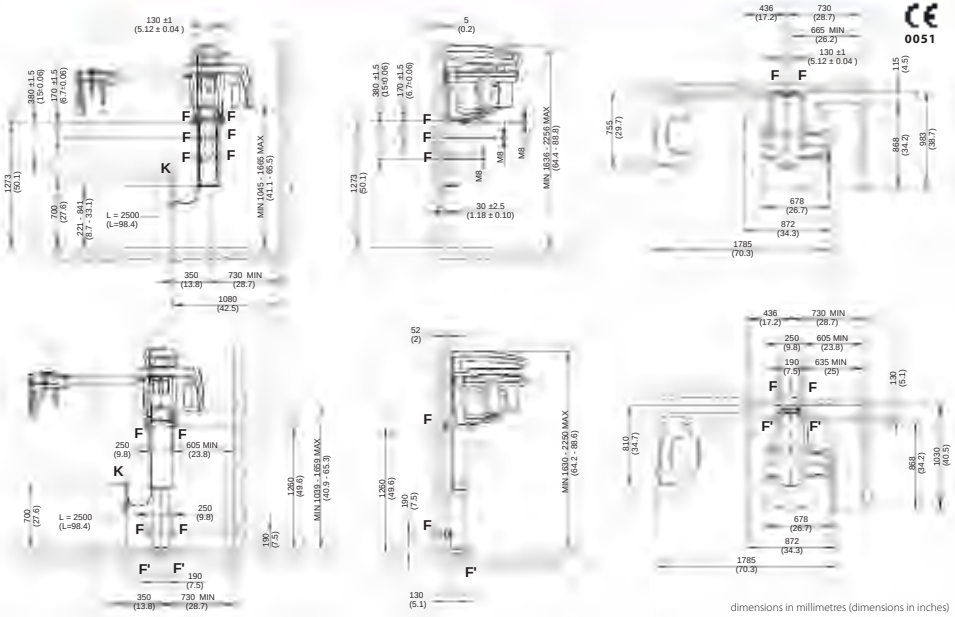
DETECTOR 2D PAN & CEPH	
Detector type	CMOS (CsI)
Dynamic range	14 bit (16384 grey levels)
Height	PAN: 148 mm CEPH: 223 mm

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 (CsI)
Dynamic range	16 bit (65536 grey levels)

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



myray
new comfort in digital imaging

cefla Making Your Life Better.

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

RAY OF SOLUTIONS

Hyperion X9 pro

DC III READY

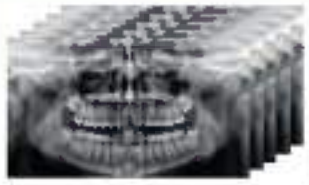
EN

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

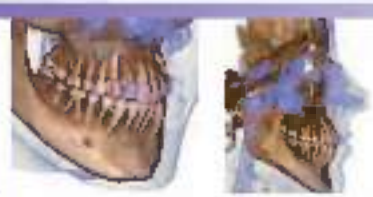
2D/3D high-definition imaging and cutting-edge technology for a complete, upgradable, and small-sized platform. Hyperion X9 pro meets every diagnostic requirement by easily integrating into the work flow and guaranteeing maximum comfort for both patient and operator.
Direct Conversion 2D Detector for 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.

RAY OF SOLUTIONS

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.



*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 DCIII 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.

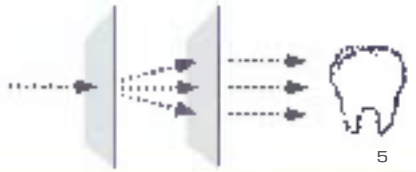
3 IN 1

RAY OF SOLUTIONS

POWERFUL IMAGE ENHANCER WITH DCIII (DIRECT CONVERSION) TECHNOLOGY

DCIII 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 DCIII 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.

POWER IMAGING

RAY OF SOLUTIONS

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 AIR WAYS
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.

RAY OF SOLUTIONS

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: wonderfull 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.

RAY OF SOLUTIONS

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*)

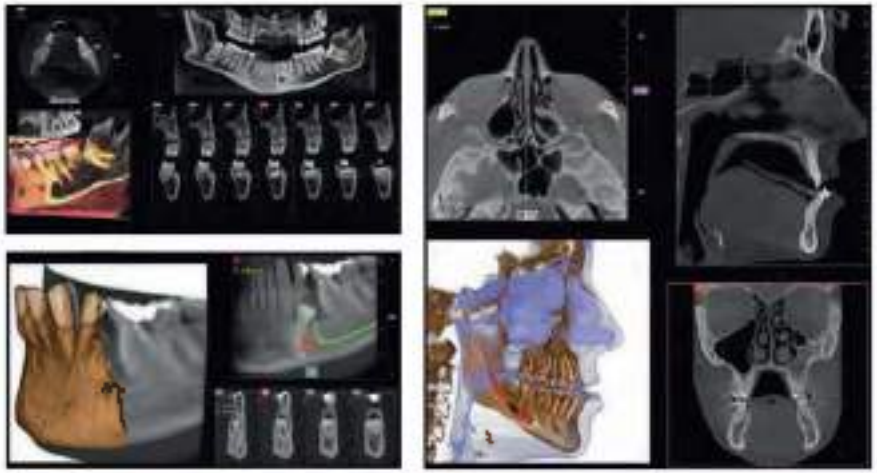
BASIC
- Complete dentition, adult: 10 x 8 cm
- Single dental arch, adult: 10 x 6 cm
- Complete dentition, child: 8 x 8 cm
- Single dental arch, child: 8 x 6 cm
- Hemiarch or anterior dentition: 6 x 6 cm

MSK

ORTHOPAEDIC EXAMS

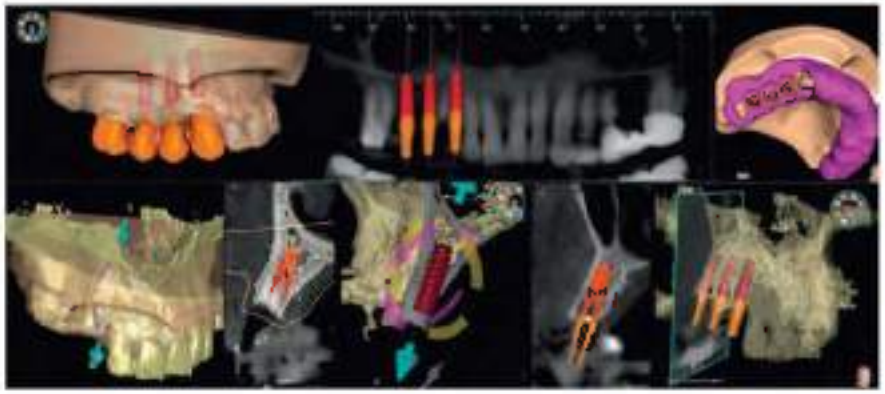
- TMJ: 7 x 6 cm (XF*) open mouth/closed mouth
- Cervical spine: 9 x 9 cm (XF*) - Voxel 68 µm

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

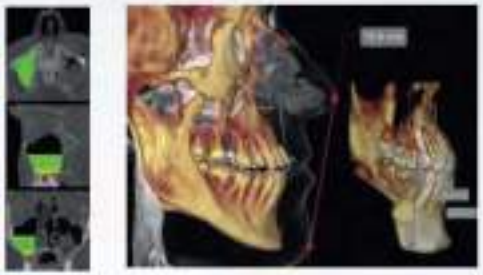
Position the equipment directly on the 3D model, combine it with the STL data from intraoral scanners and define the final prosthetic project. With the advanced implant planning tools* you will be able to operate safely thanks to accurate information on the amount of bone and the distance from the surrounding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

*Not available for Canada

RAY OF SOLUTIONS

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

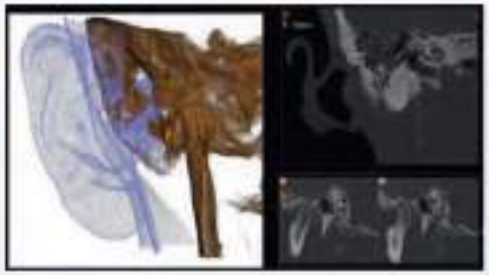
Volumes with 13 x 8 cm or 13 x 10 cm FOV are the perfect tool for zygomatic implant planning as the 13 cm diameter is the only one that makes it possible to include the entire zygomatic arch, without cuts.

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.



*Optional

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 DCIII & 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

TELERADIOGRAPHIC EXAMINATIONS

- Latero-lateral SuperHD projection (with DCIII 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 DCII sensor)
- Carpus projection

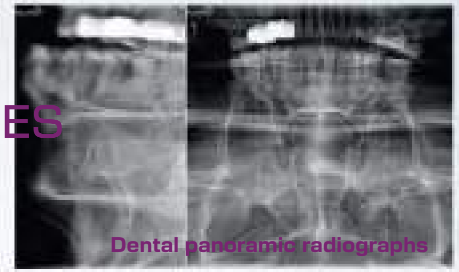
SMART COLLIMATION

Thanks to the patented primary servo-controlled collimator, it 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.

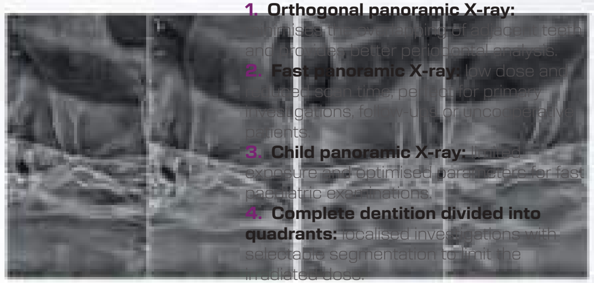
FULL CEPH

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.

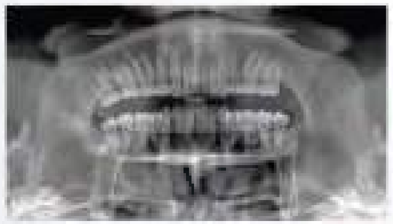
2D. CLINICAL CASES

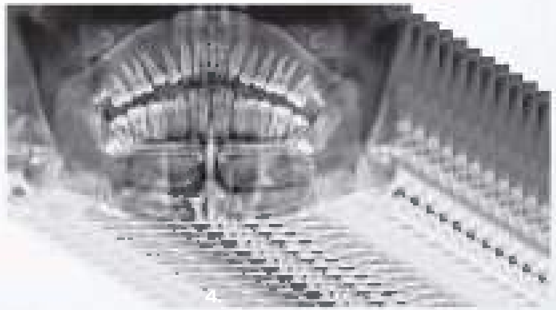


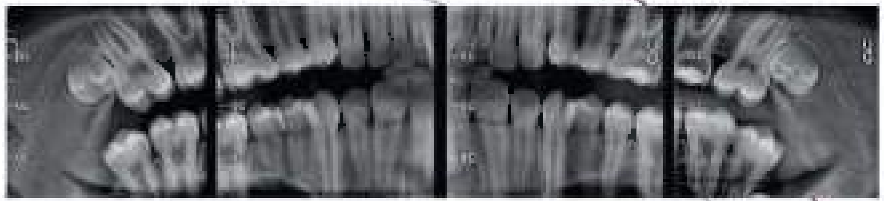
Dental panoramic radiographs

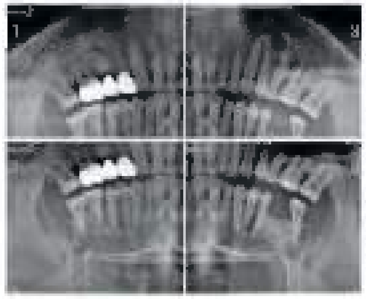


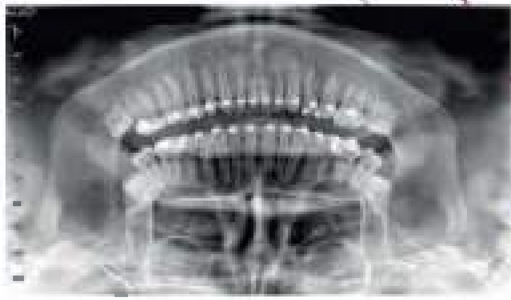
1. **Orthogonal panoramic X-ray:** ... and ... better periodontal analysis.
2. **Fast panoramic X-ray:** low dose and ... for primary investigations ... patients.
3. **Child panoramic X-ray:** ... exposure and optimised parameters for fast paediatric examinations.
4. **Complete dentition divided into 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.







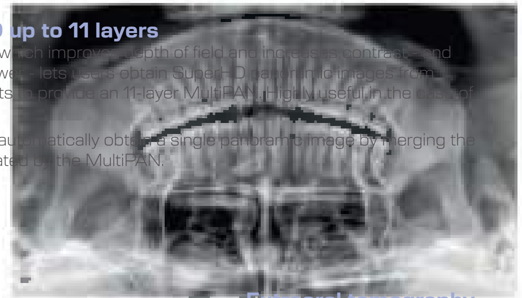




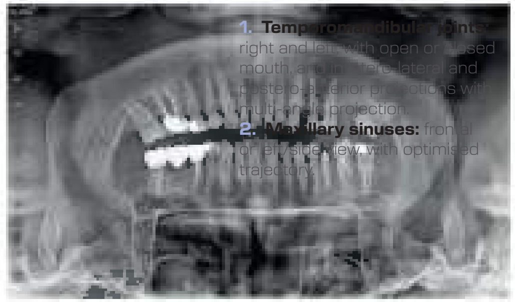
MULTIPAN SuperHD up to 11 layers

Innovative DC^{II} 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 produce 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.



Extraoral tomography



1. **Temporomandibular joints:** right and left with open or closed mouth, ... lateral and postero-anterior projections with multi-angle projection.
2. **Maxillary sinuses:** frontal or lateral 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.

RAY OF SOLUTIONS

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

- 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.

MRT
(Patented)

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

RAY OF SOLUTIONS

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.

RAY OF SOLUTIONS

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.

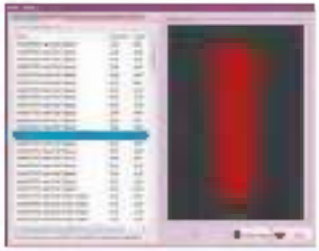
in according to EN ISO/IEC 17065:2012

* must not be used for primary diagnosis.

RAY OF SOLUTIONS

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.

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 analize 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.

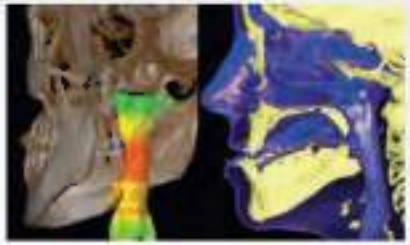
INTERCONNECTED

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.

RAY OF SOLUTIONS

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).

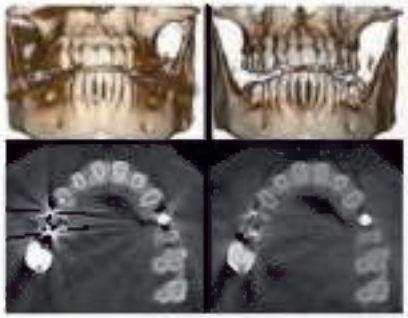


2D PiE

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 dention.

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.

* 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**

- 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.

POSITION
Face to Face positioning and exam selection from the virtual control panel.

EXPOSE
Quick scan.

VIEW
Immediate image analysis.

SHARE
Export, print, send and store captured images.

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

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.

FULL CONNECTIVITY

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

PLUG&PLAY

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

REMOTE ASSISTANCE

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

* must not be used for primary diagnosis.

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

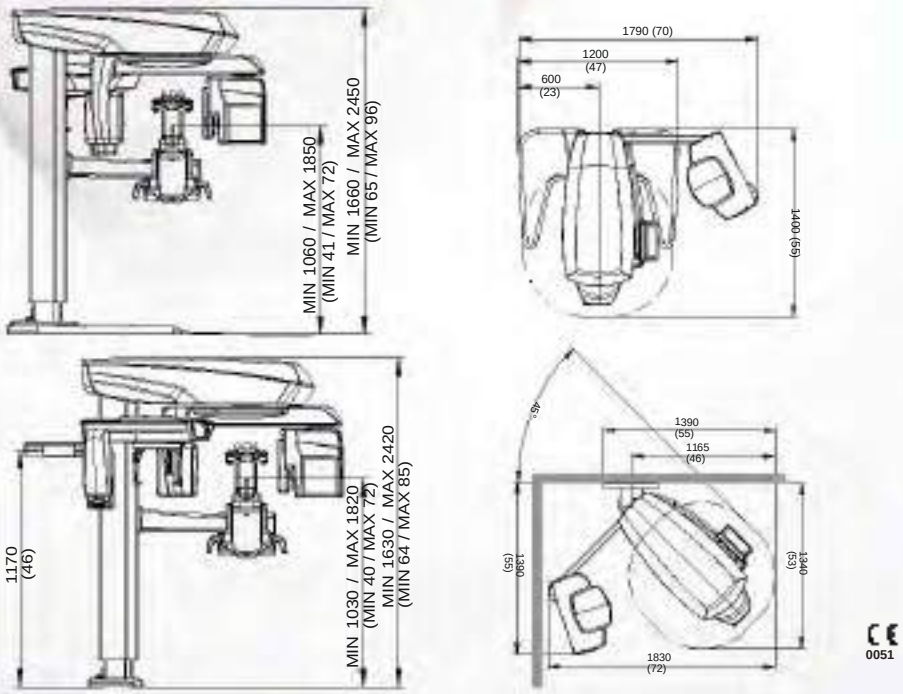
* Optional

RAY OF SOLUTIONS

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 (teleradiographic 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.V.A. 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)



dimensions in millimetres (dimensions in inches)

CE 0051

RAY OF SOLUTIONS

ProXIma X6

GB

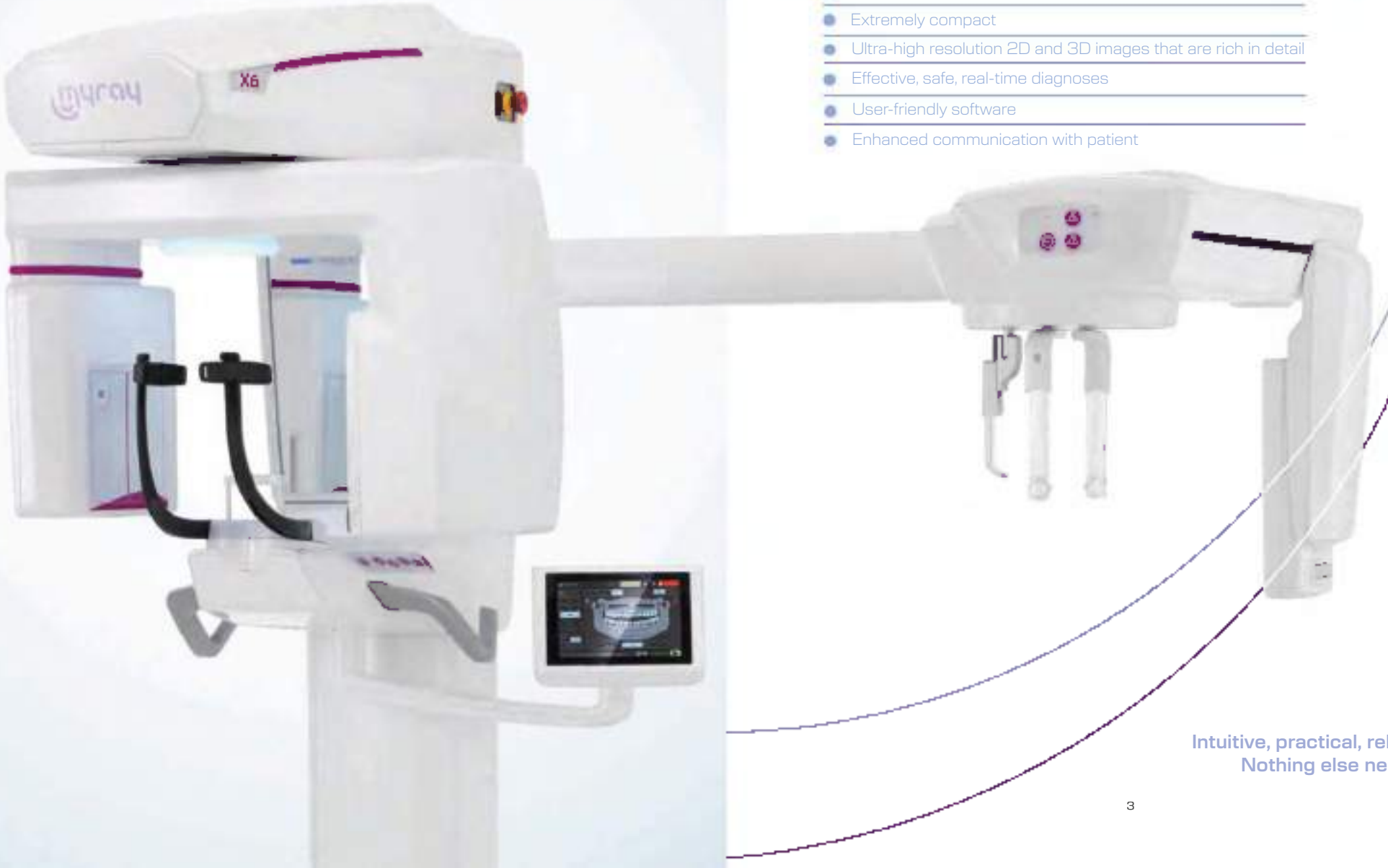
ProXIma X6
Professional X-ray Imaging

RAY OF SOLUTIONS

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.

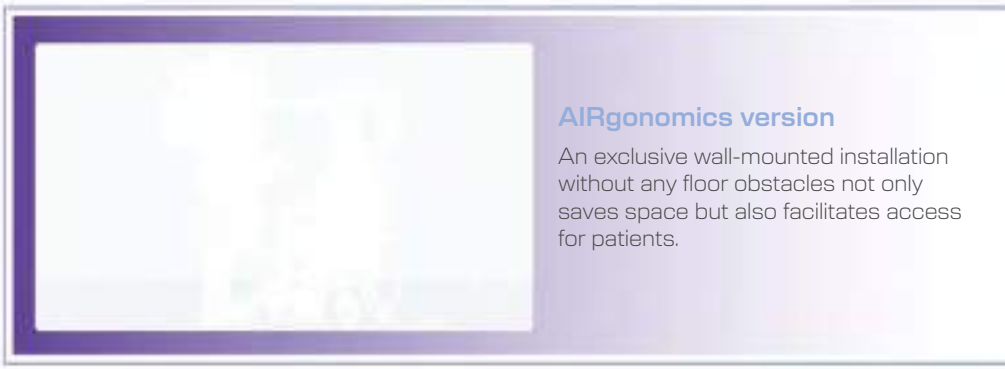
TAKES SHAPE AROUND YOU

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.

RAY OF SOLUTIONS



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.

- Waiting
- Ready for examination
- X-ray emission in progress
- Error detected
- 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.

RAY OF SOLUTIONS

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

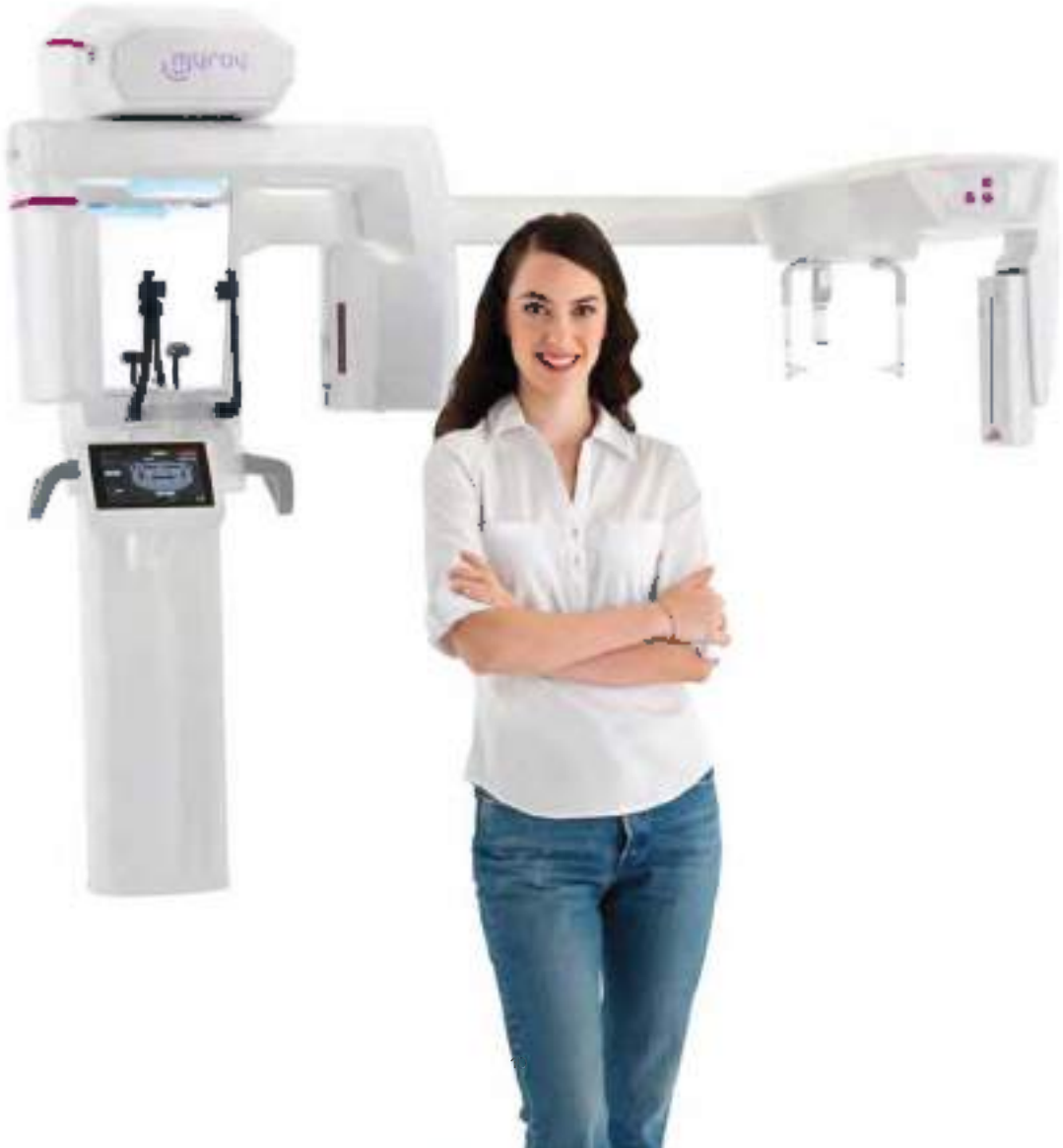
Ergonomically designed handles aid patient stability, ensuring patient posture is comfortable, safe and stable during an examination.

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.



RAY OF SOLUTIONS

Cutting-edge protocols

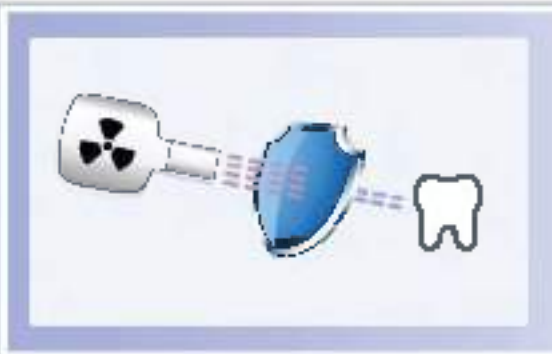
Available for both **2D** (QuickPAN and QuickCEPH) and **3D** (QuickSCAN) examinations, these provide accurate images but with lower doses than standard acquisitions.

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

In paediatric cephalometric examinations, combining the protocol with the elongated ear pads protects the thyroid from exposure and minimizes the X-ray exposure for the child.

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.



Dose Saver configurations

Two pre-settable MRT panoramic imaging modes ("80" and "100") lower the dose received by the patient significantly, with a delta of 20%.

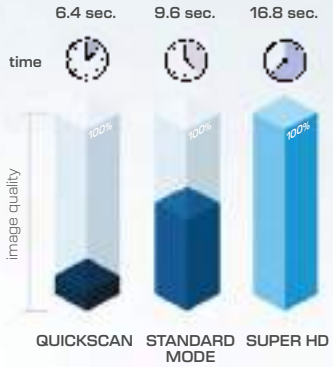
DISCOVER THE DEPTH OF 3D

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.

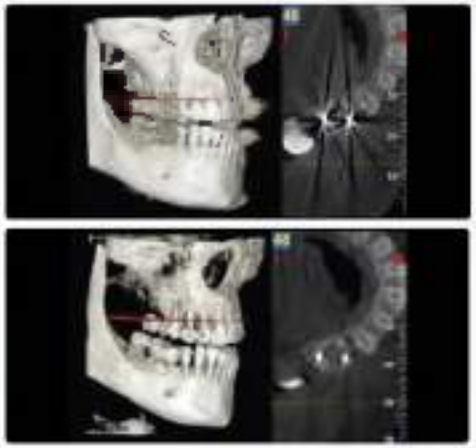
Optimised 3D scanning protocols

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

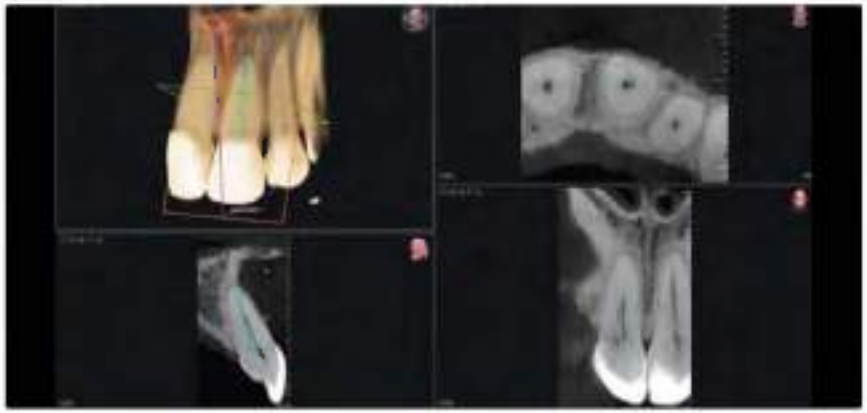
A dedicated support and protocol are also available for fast scanning of prostheses, radiological templates, models and impressions.

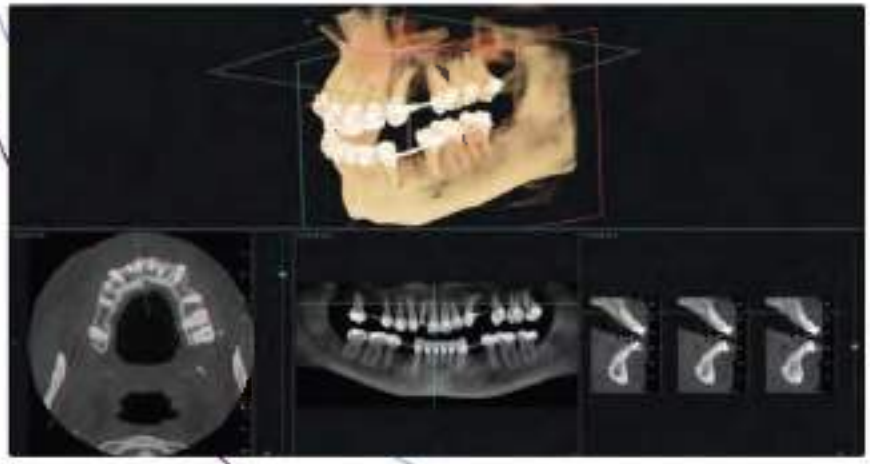
3D dental exams

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.

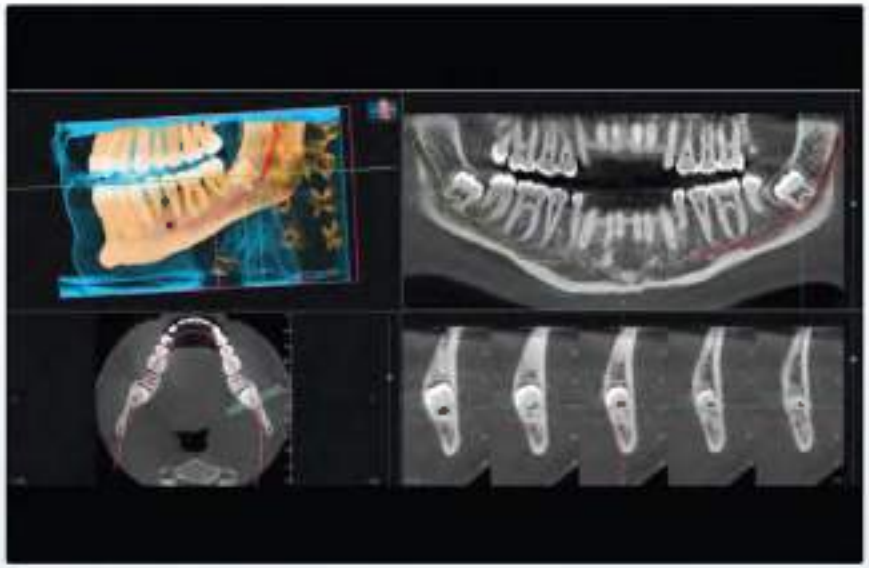
• Typical FOVs for dental exams on adult or paediatric patients:

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





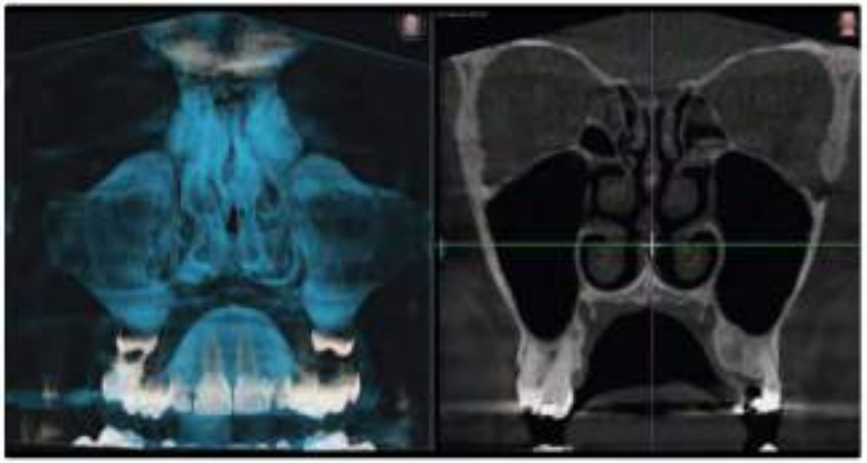
RAY OF SOLUTIONS

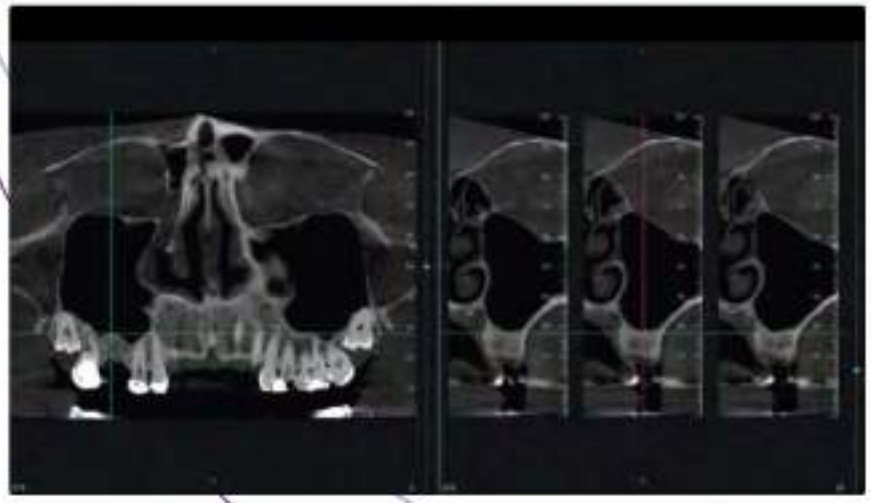


3D sinus exams

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

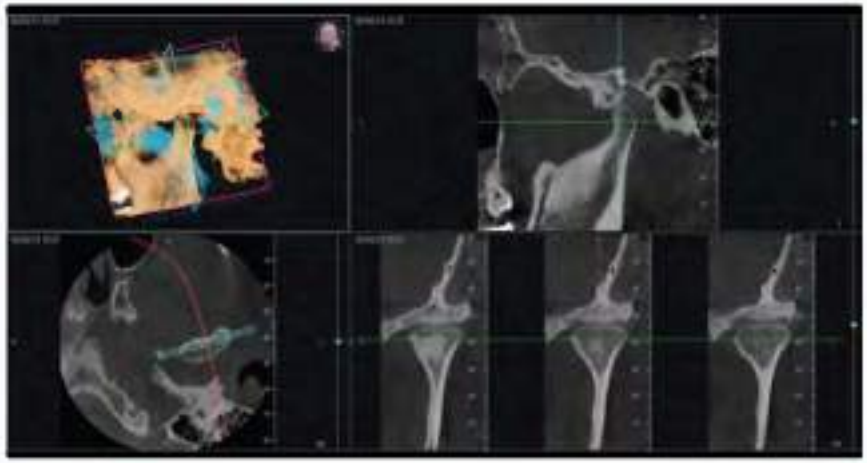


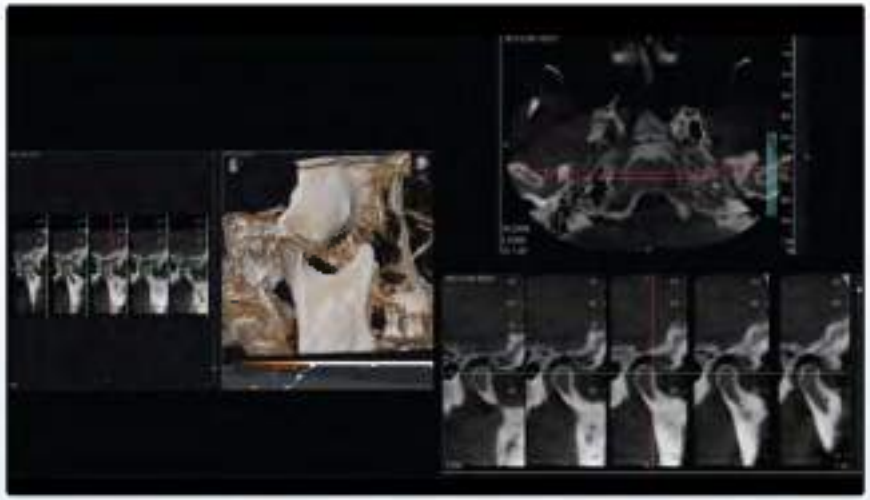


3D temporomandibular joint exams

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)



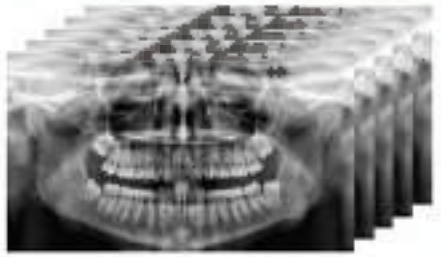


2D IMAGING THAT'S A MUST-HAVE

RAY OF SOLUTIONS

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.

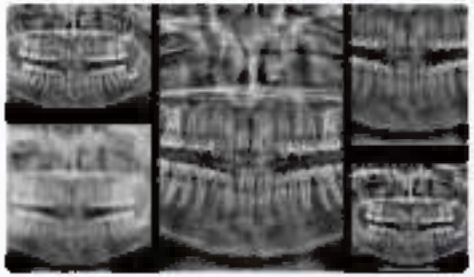


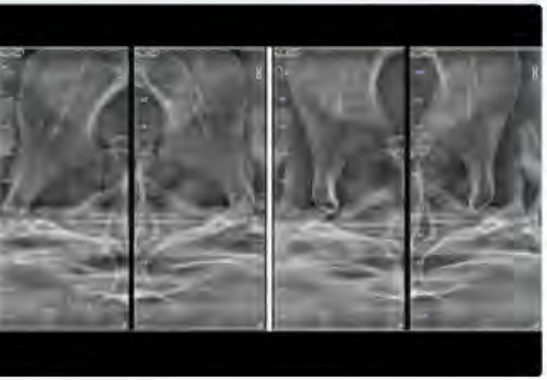
iPAN function (Focus-Free)

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

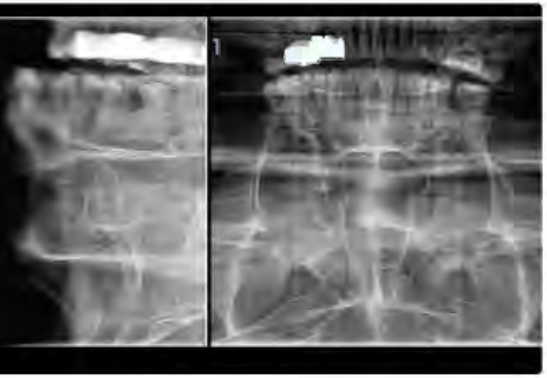
These automatically optimise each layer captured with the MultiPAN function thanks to self-adaptive filters that act on the sharpness and detail of the different anatomical areas according to user-applied settings.





Standard Panoramic

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

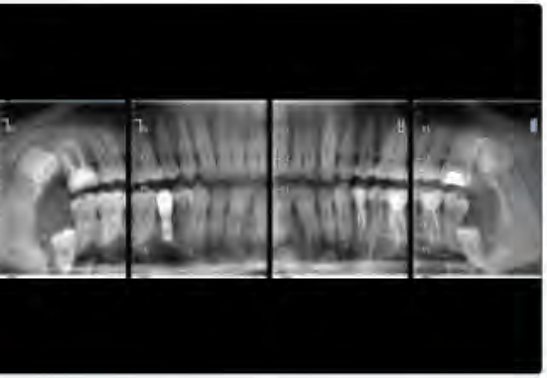


Orthogonal panoramic

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

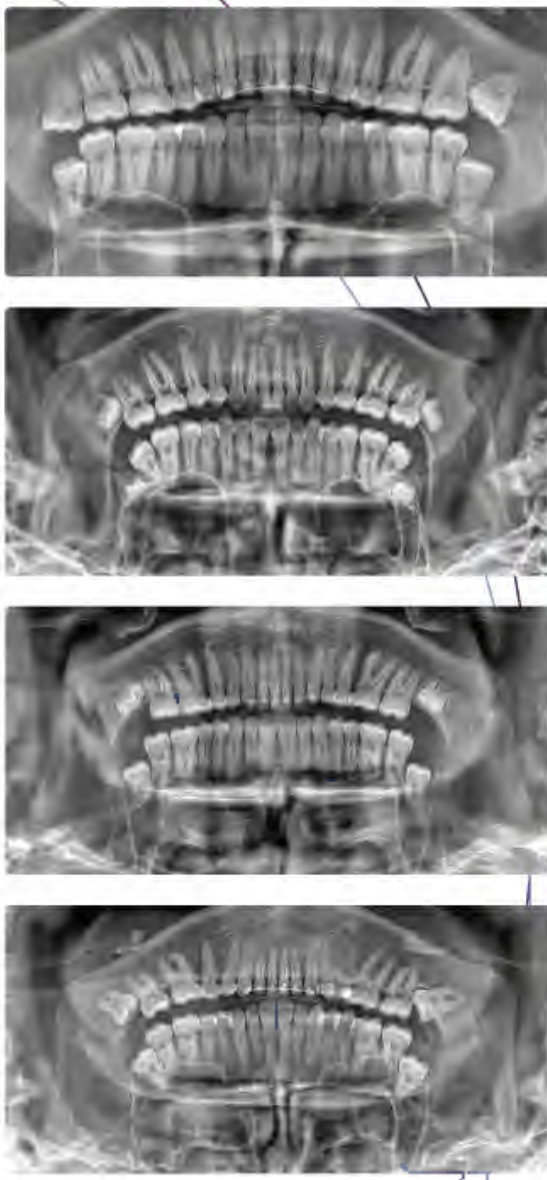
Optimised collimated interproximal projection with a low dose to investigate dental crowns. An alternative to intraoral bitewings, with a less invasive and more comfortable procedure.

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.

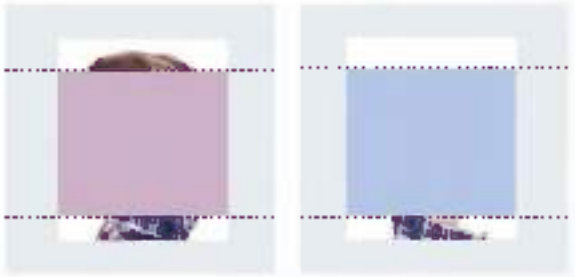
RAY OF SOLUTIONS

Repositionable 2D PAN/CEPH sensor

ProXIma X6 allows you to perform both panoramic and cephalometric exams using the 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.

RAY OF SOLUTIONS

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 teleradiography 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

Data import

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

02

Database management

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

03

Device configuration

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

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

Sharing treatment

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

06

RAY OF SOLUTIONS

RAY OF SOLUTIONS

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	

CE 0051

myray new comfort in digital imaging

cefla Making Your Life Better.

MX6PGB241500 1172024

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

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

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

RAY OF SOLUTIONS

MyScan WL

EN

THE SOLUTION YOU'VE BEEN WAITING FOR

MyScan WL is a wireless scanner that uses AI algorithms to deliver a streamlined, comfortable digital workflow for everyone. The first scanner to feature wireless charging, immediate start-up and a long-lasting battery, MyScan WL is the perfect partner for ultramodern practices.
Top performer.

SLEEP MODE & INSTANT WAKE

WIRELESS CHARGING

BACKUP BATTERY
in the charging base

AI ALGORITHMS
for assisted soft tissue removal

GYROSCOPE
for remote control of the digital flow

CALIBRATION
NOT REQUESTED

AUTOCLAVABLE TIPS
in two dimensions

18mm

DEPTH OF FIELD

AUTONOMY
60 cases on a single charge

DUAL SCAN BUTTON
to control the stages of acquisition

245 g.

LIGHTNESS
Maximum comfort

IMPACT RESISTANT
thanks to a design that shields the internal optics

20µm

ACCURACY
of full-arch scan

DEDICATED FILTERS
to highlight and sharpen details and provide realistic images

MAXIMUM SCAN QUALITY, ERGONOMICS AND FLUIDITY OF USE

Everything to streamline and simplify your work

- Effective communication with patients
- Integrated gyroscope
- Easy transfer between workstations
- Assisted acquisition with AI

Give your patient a comfortable, surprising experience. All the advantages of digital scanning and the effectiveness of communication based on high-impact images. Thanks to the integrated gyroscope, no mouse or keyboard is needed to manage acquisition flows: everything can be done with the handpiece as if it were a remote control. The AI can be modulated to different intensities: this means you can opt out of acquiring tongue, lips, fingers or other objects that might have an effect on data quality. Wireless design makes handling the scanner easy, especially in practices with multiple workstations.

RAY OF SOLUTIONS

MAXIMUM SCAN QUALITY

Manage all clinical applications independently with MyScan WL. Full-arch accuracy of 20 µm.

EXCELLENT IMAGES

Choose one of the two image display modes:
- realistic colours for effective, engaging communication with the patient.
- sharp details to assess and/or verify complex oral cavity situations.

EVERYTHING IN SECONDS

Obtain digital models of the dental arches in just a few seconds thanks to high-performance AI and a camera with an ultra-high frame rate.

MYSCAN CONNECT, OPTIMISE YOUR WORKFLOW

Web platform, constantly evolving clinical and communication applications

- Automatic cloud synchronisation
- Effective communication with patients
- Web version for multi-platform use
- Extensive integrated APP Store

Operate in-cloud and manage data both inside and outside the practice.
Immediate, intuitive communication with patients.
The APP Store lets you install and update the available applications, ensuring maximum MyScan WL performance and compatibility at all times.
Expand and complete digital workflows with plug-ins for the integration of 3D printers or third-party services.

RAY OF SOLUTIONS

Just a few simple steps

Enter the patient data, create the order form and scan.
The data auto-synchronization tool makes all patient models and images immediately available (both locally and in-cloud).
You'll be able to check, share or request a restoration from the lab or service center, also remotely via PC, Mac, tablet or smartphone, at any time.

SCANPRO, THE SCAN FOR YOU

A full range of functions to improve and simplify clinical applications

- Wide range of clinical instruments
- High definition
- Simultaneous acquisition of 2D and 3D images
- Camera mode

Take advantage of tools for linear or interocclusal distance measurements, for detecting undercuts, checking scan quality and applying high definition to specific anatomical areas.
MyScan WL features advanced image capture technology that lets users simultaneously record not only 3D images but also photographs of the oral cavity, all of which, thanks to the Intraoral Camera tool, can be consulted and shared at all times.
Highly useful for enhancing dentist-patient communication or sending photographic close-ups to the lab.

RAY OF SOLUTIONS

Assisted acquisition with ai

Fast, clean, precise scans. Artificial intelligence performs automatic real-time removal of soft tissues, artifacts or duplications, maximising performance.

USER-FRIENDLY DIGITAL WORKFLOWS

Make the patient 'virtual', design and revolutionize communication

- Integration with CBCT devices
- Automatic updates
- Applications for creation of the 'virtual patient'
- Added value for the practice

A broad portfolio of clinical-communicative applications that combines the benefits of outstanding optics and three-dimensional radiology enhances your investment and constantly renews it with automatic updates.
You'll have tools that let you 'virtualise' the patient, design the smile, compare oral health states, work in chairside mode or engage in prosthetically-guided implant surgery... and much more.

Oral Health Report
Automatically produce a patient oral health report.

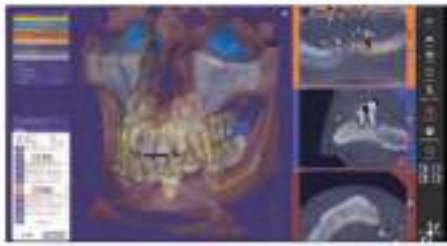
Model Builder
Create, save and print your digital plaster cast collection.

Mesh Compare
Compare two scans and see how treatment is progressing.

Ortho Simulation
Present a treatment proposal using virtual planning.

Smile Design
Share treatment with your patient in a way that enhances understanding and effectiveness.

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.

HANDPIECE	
Weight	245 g
Dimensions (mm)	248 x 48 x 37
Power supply	Not necessary
Remote Control	YES
Keys	(Start scan & Mode)
Connectivity	Wireless
Batteries	2 pcs
Charging	Wireless system incorporated in the handpiece base (also for backup battery)
Duration of a single battery	More than two hours with continuous scanning (about 60 cases)
SCANNING	
Accuracy (full arch)	20.0 µm
Acquisition depth	18 mm
Field of view (mm)	16 x 14 (with Large Tip) 12 x 12 (with Small Tip)
Calibration	Not necessary
Tip dimensions	22 x 18 mm (with Large Tip) 18 x 16 mm (with Small Tip)
Sterilisation	Autoclavable, over 60 cycles - 134°C for 4 minutes
SOFTWARE FUNCTIONS INCLUDED	
MyScan Connect	Patient data and image management
MyScan Connect WEB	Patient data and image management web platform
Auto-Synchronisation in the Cloud	YES
APP Store	Clinical and communicative applications can be downloaded, installed and updated
Scan Acquisition	Acquisition software with clinical tools (measurement, drawing of margin line, undercut check, etc.)
Artificial Intelligence	YES (to remove soft tissues or artifacts from the scan)
APPS INCLUDED	
Smile Design	Aesthetic design of smile (requires acquired extraoral photos captured with camera or other device)
Oral Health Report	Report to share patient's oral health status with the patient or the digital partner
Compare	Comparison of different acquisitions and monitoring of treatment progress
Ortho Simulation	Orthodontic simulation performed via AI on digital models of the patient (for communicative purposes only)
Model Builder	Finalisation of models and preparation for printing (digitalization of the plaster cast collection)
MINIMUM AND RECOMMENDED PC REQUISITES	
Supported operating systems	Microsoft® Windows® 10 (Professional 64 bit) and 11
Processor	LAPTOP: 11th generation Intel® Core™ i5-11400H or AMD Ryzen™ 7 5700U (minimum) 11th generation Intel® Core™ i7-11800H or AMD Ryzen™ 7 5800H (recommended) DESKTOP: 10th generation Intel® Core™ i5-10600 or AMD Ryzen™ 5 3600 (minimum) 11th generation Intel® Core™ i7-10700 or AMD Ryzen™ 7 3700X (recommended)
RAM	16 GB (minimum), 32 GB (recommended)
Graphics card	LAPTOP: Nvidia GeForce GTX 1660 6 GB (minimum), Nvidia GeForce RTX 2070 Super 8 GB (recommended) DESKTOP: Nvidia GeForce GTX 1660 Ti 6 GB (minimum), Nvidia GeForce RTX 2060 Super 8 GB (recommended)
Ports	USB 3.2 Gen1 Type-A
Monitor	120 x 1080, 60Hz
Conformity	IEC60950, IEC60601-1, IEC60601-1-2 (EMC)

MSCWLGB251500 07/2025

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

RAY OF SOLUTIONS

MyScan WR

EN

THE POWER OF DIGITAL

The MyScan WR intraoral scanner simplifies the transition to digital.
Plug & play connectivity, thanks to a single, removable and replaceable USB cable means you can work anywhere.
A light handpiece and the use of artificial intelligence ensure extremely fast, user-friendly image capture.
Light, easy, advanced.

AI ALGORITHMS
for assisted soft tissue removal

18mm
DEPTH OF FIELD

CALIBRATION
NOT REQUESTED

AUTOCLAVABLE TIPS
in two dimensions

GYROSCOPE
for remote control of the digital flow

20µm
ACCURACY
of full-arch scan

DUAL SCAN BUTTON
to control the stages of acquisition

175 g.

DEDICATED FILTERS
to highlight and sharpen details and provide realistic images

LIGHTNESS
Maximum comfort

SINGLE CABLE
USB 3.0

IMPACT RESISTANT
thanks to a design that shields the internal optics

SIMPLIFIED WORKFLOWS

Freedom of movement and secure results thanks to cutting-edge MyScan WR engineering solutions

- Extremely manageable
- Single connection cable
- Integrated gyroscope
- Assisted acquisition with AI

Outstanding ergonomics with the ultra-light handpiece weighing just 175 grams. MyScan WR is computer-connected with a single USB cable: no additional converters or cables to get in the way. Thanks to the integrated gyroscope, no mouse or keyboard is needed to manage acquisition flows: everything can be done with the handpiece as if it were a remote control. The AI can be modulated to different intensities: this means you can opt out of acquiring tongue, lips, fingers or other objects that might have an effect on data quality.

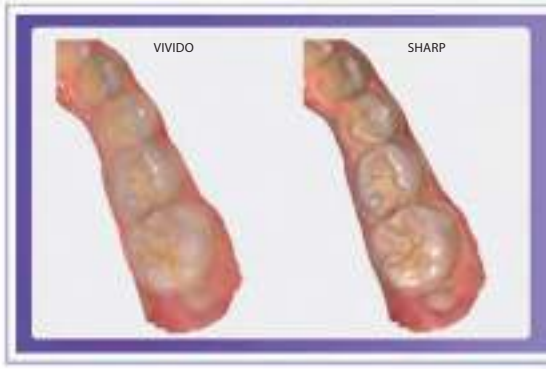
RAY OF SOLUTIONS

Maximum scan quality

Manage all clinical applications independently with MyScan WR. Full-arch accuracy of 20 µm.

Futuristic architecture

The MyScan WR set-up is decidedly future-focused. Innovative soft tissue removal functions. Advanced image processing algorithms and the Vivid filter let you obtain sharp, detailed models to ensure rewarding, meaningful engagement with the patient.
The Sharp filter lets you maximise sharpness of every detail so you can assess and/or verify even the most complex oral cavity situations.



Everything in seconds

Obtain digital models of the dental arches in just a few seconds thanks to high-performance AI and a camera with an ultra-high frame rate.

MYSCAN CONNECT, OPTIMISE YOUR WORKFLOW

Web platform, constantly evolving clinical and communication applications

- Automatic cloud synchronisation
- Effective communication with patients
- Web version for multi-platform use
- Extensive integrated APP Store

Operate in-cloud and manage data both inside and outside the practice.
Immediate, intuitive communication with patients.
The APP Store lets you install and update the available applications, ensuring maximum MyScan WR performance and compatibility at all times.
Expand and complete digital workflows with plug-ins for the integration of 3D printers or third-party services.

RAY OF SOLUTIONS

Just a few simple steps

Enter the patient data, create the order form and scan.
The data auto-synchronization tool makes all patient models and images immediately available (both locally and in-cloud).
You'll be able to check, share or request a restoration from the lab or service center, also remotely via PC, Mac, tablet or smartphone, at any time.

SCANPRO, THE SCAN FOR YOU

A full range of functions to improve and simplify clinical applications

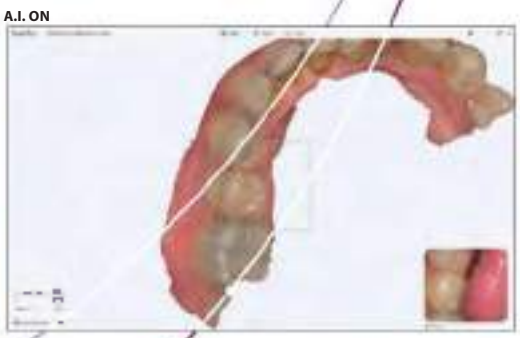
- Wide range of clinical instruments
- High definition
- Simultaneous acquisition of 2D and 3D images
- Camera mode

Take advantage of tools for linear or interocclusal distance measurements, for detecting undercuts, checking scan quality and applying high definition to specific anatomical areas. MyScan WR features advanced image capture technology that lets users simultaneously record not only 3D images but also photographs of the oral cavity, all of which, thanks to the Intraoral Camera tool, can be consulted and shared at all times. Highly useful for enhancing dentist-patient communication or sending photographic close-ups to the lab.

RAY OF SOLUTIONS

Assisted acquisition with ai

Fast, clean, precise scans. Artificial intelligence performs automatic real-time removal of soft tissues, artifacts or duplications, maximising performance.



USER-FRIENDLY DIGITAL WORKFLOWS

Make the patient 'virtual', design and revolutionize communication

- Integration with CBCT devices
- Automatic updates
- Applications for creation of the 'virtual patient'
- Added value for the practice

A broad portfolio of clinical-communicative applications that combines the benefits of outstanding optics and three-dimensional radiology enhances your investment and constantly renews it with automatic updates.
You'll have tools that let you 'virtualise' the patient, design the smile, compare oral health states, work in chairside mode or engage in prosthetically-guided implant surgery... and much more.

RAY OF SOLUTIONS

Oral Health Report
Automatically produce a patient oral health report.

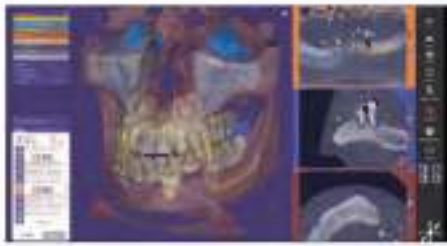
Model Builder
Create, save and print your digital plaster cast collection.

Mesh Compare
Compare two scans and see how treatment is progressing.

Ortho Simulation
Present a treatment proposal using virtual planning.

Smile Design
Share treatment with your patient in a way that enhances understanding and effectiveness.

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.

HANDPIECE	
Weight	175 g
Dimensions (mm)	175 x 49 x 39
Power supply	Not necessary
Remote Control	YES
Keys	(Start scan & Mode)
Connectivity	USB-A 3-0
Cable length	180 cm
Replaceable cable	YES (directly in the practice)
SCANNING	
Accuracy (full arch)	20.0 µm
Acquisition depth	18 mm
Field of view (mm)	16 x 14 (with Large Tip) 12 x 12 (with Small Tip)
Calibration	Not Necessary
Tip dimensions	22 x 18 mm (with Large Tip) 18 x 16 mm (with Small Tip)
Sterilisation	Autoclavable, over 60 cycles - 134°C for 4 minutes
SOFTWARE FUNCTIONS INCLUDED	
MyScan Connect	Patient data and image management
MyScan Connect WEB	Patient data and image management web platform
Auto-Synchronisation in the Cloud	YES
APP Store	Clinical and communicative applications can be downloaded, installed and updated
Scan Acquisition	Acquisition software with clinical tools (measurement, drawing of margin line, undercut check, etc.)
Artificial Intelligence	YES (to remove soft tissues or artifacts from the scan)
APPS INCLUDED	
Smile Design	Aesthetic design of smile (requires acquired extraoral photos captured with camera or other device)
Oral Health Report	Report to share patient's oral health status with the patient or the digital partner
Mesh Compare	Comparison of different acquisitions and monitoring of treatment progress
Ortho Simulation	Orthodontic simulation performed via AI on digital models of the patient (for communicative purposes only)
Model Builder	Finalisation of models and preparation for printing (digitalization of the plaster cast collection)
MINIMUM AND RECOMMENDED PC REQUISITES	
Supported operating systems	Microsoft® Windows® 10 (Professional 64 bit) and 11
Processor	LAPTOP: 11th generation Intel® Core™ i5-11400H or AMD Ryzen™ 7 5700U (minimum) 11th generation Intel® Core™ i7-11800H or AMD Ryzen™ 7 5800H (recommended) DESKTOP: 10th generation Intel® Core™ i5-10600 or AMD Ryzen™ 5 3600 (minimum) 11th generation Intel® Core™ i7-10700 or AMD Ryzen™ 7 3700X (recommended)
RAM	16 GB (minimum), 32 GB (recommended)
Graphics card	LAPTOP: Nvidia GeForce GTX 1660 6 GB (minimum), Nvidia GeForce RTX 2070 Super 8 GB (recommended) DESKTOP: Nvidia GeForce GTX 1660 Ti 6 GB (minimum), Nvidia GeForce RTX 2060 Super 8 GB (recommended)
Ports	USB 3.2 Gen1 Type-A
Monitor	120 x 1080, 60Hz
Conformity	IEC60950, IEC60601-1, IEC60601-1-2 (EMC)

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

MSCWRGB251S00 07/2025

TECHNICAL DATA	
Resolution (theoretical)	17 lp/mm
Image pixel size	30 µm
Image grey levels	16 bit (65,536 grey levels)
Supported plate sizes	Size 0, 1, 2, 3
Plate size selection	Automatic
Read time	4 – 8 s
Plate Deletion	Automatic
Dimensions (H x L x P)	176 x 133 x 264 mm
Weight	3.8 kg
Power supply	110 - 240 V 50/60 Hz (24 Watts)
Connectivity	ETHERNET direct to PC or in LAN
Acquisition software (for PC)	iCapture with MultiROOM interface for third party software
Image management software (for PC)	iRYS (complies with ISDP©10003:2020 as per EN ISO/IEC17065:2012 certificate number 2019003109-2) and App iPad iRYS viewer (free)
Supported protocols	DICOM 3.0, TWAIN, VDDS
DICOM nodes	IHE compliant (Print; Storage Commitment, SR document; WorkList; MPPS; Query/Retrieve)

CE
0051

Size 0
22 x 31 mm
Pixels
762 x 1024
Memory
size 1 MB

Size 1
24 x 40 mm
Pixels
792 x 1321
Memory
size 2 MB

Size 2
31 x 41 mm
Pixels
1024 x 1354
Memory
size 3 MB

Size 3
27 x 54 mm
Pixels
891 x 1783
Memory
size 4 MB

MINIMUM SYSTEM REQUIREMENTS	
Supported operating systems:	Microsoft® Windows® 10 Professional 64 bit
Display settings:	1280 x 1024; 1344 x 768 or greater, 16 million colours
Port:	PC Server: RJ 45 | PC Client connected in LAN

www.my-ray.com

BU Medical Equipment
Plant - Via Bicocca, 14/c - 40026 Imola - Bo (Italy) tel. +39 0542 653441 - fax +39 0542 653555
Headquarters - Cefla s.c. Via Selice Provinciale, 23/a - 40026 Imola - Bo (Italy) tel. +39 0542 653111 - fax +39 0542 653344
Cefla North America, Inc. 6125 Harris Technology Blvd. Charlotte, NC 28269 - U.S.A. Toll Free: (+1) 800.416.3078 Fax: (+1) 704.631.4609

09/2023 MFOSGB201S00

Hy-Scan
Phosphor
plate scanner

MultiROOM
MultiMAGE

Uncompromising simplicity and quality.

Always-reliable diagnosis, comfort, user-friendliness and fast capture times. Hy-Scan gives access to unrivalled digital technology and film-like ergonomics - all in one compact, affordable device.

MyRay, just right for you.

ETHERNET CONNECTION
Fast, secure transfer of images to the PC next to the workstation or directly from the server in MultiROOM.

LED STATUS INDICATOR
Process always under control with instantaneous display of scanner status (ready / reading / image deletion / standby / etc.) thanks to the status indicator.

TOUCH-FREE
Fully automatic plate reading process.

IMPROVED ERGONOMICS:
Thin, flexible, wireless like a film, 100% active area without positioning limitations.

MAGNETIC PLATE:
perfectly integrated with the phosphor layer to optimise the reading process with an automatic TOUCH-FREE acquisition sequence start.

HIGH SENSITIVITY:
improved image quality, minimum X-ray dose for the patient.

PLATE BOX
Practical, portable container to store and protect plates tidily.

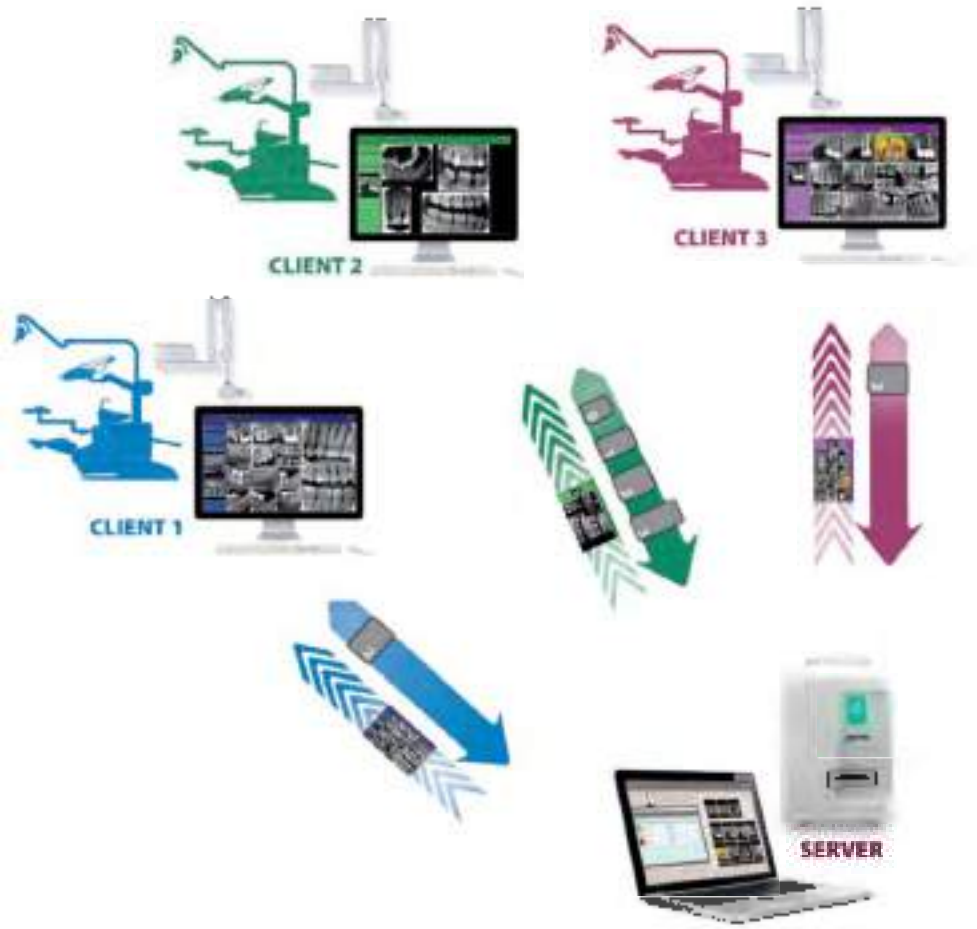
ULTRA-COMPACT AND ERGONOMIC
Featuring essential, compact design, the Hy-Scan scanner is perfect for any dental surgery. Extremely versatile, it can be installed both horizontally on the table or wall-mounted vertically using the special bracket..

Functions that make the difference.

Thanks to constant iRYS software development, MyRay solutions benefit from ever-better functions and performance that respond to dentists' real needs.

A series of cutting-edge image processing filters are provided to ensure the system genuinely improves diagnostics. Users can select which filters to use from among the pre-set families and define any further customisations according to their visual or diagnostic preferences. All filters are accessible from the iRYS image display window, where users can decide which ones to apply automatically.
Moreover, remote phosphor scanner control for clinics with multiple surgeries improves workflow, productivity and patient engagement.

- Optimized filters for phosphor plates
- Simultaneous management of 5 images
- Images improved for specific diagnoses
- Remote image control with MultiROOM
- Minimized management times



MultiMAGE
MyRay has developed a dedicated function to respond to the needs of dentists like you.
By using proprietary PiE (Powerful image Enhancer) algorithms optimised for phosphor plates, this function lets dentists simultaneously capture, display and share a set of (up to 5) images. Each image is the result of a different type of improvement designed to highlight various anatomical details with different levels of sharpness and contrast, ensuring dentists can diagnose better.

PERFECT FOR MULTIROOM USE
Hy-Scan lets you optimise dental clinic workflows in MultiROOM. Thanks to the MultiROOM function, usable via Hy-Scan, the remote scanning system (connected to the SERVER) can be managed with a reservation made directly from the workstation alongside the patient (CLIENT PC).

The patient is defined by a name and the colour of the surgery. A simple APP - available in iCapture - lets you automatically save a series of remotely scanned images on the medical record of the patient, who is pre-selected in iRYS from the surgery from which you made the reservation. These images will be displayed immediately on the PC next to the patient.

Hy-Definition.

Outstanding digital imaging quality combined with the practicality and affordability of traditional film.

The Hy-Scan phosphor plate scanner provides the perfect balance between technology and tradition. Hy-Scan combines the very best digital diagnostic technology with the advantages of traditional film plates. A compact, fast, simple device to use, which produces high resolution intraoral images for always-reliable diagnosis. The plates, ergonomic and thin, are easy to position and offer maximum patient comfort.
The TOUCH-FREE plate insertion and recognition system makes the scan even simpler, also in MultiROOM. The scanner can import and digitize each image in rapid sequence in just a few seconds, allowing them be displayed immediately on the PC or, via a special APP, on an iPad.
Easy, compact, reliable diagnostics.

- Essential, light, compact design
- High definition digital images
- Ergonomics and positioning comfort
- TOUCH-FREE user-friendliness
- Hard-wearing and reliable in MultiROOM

TOUCH-FREE ACQUISITION

User-friendliness and maximum workflow efficiency. Hy-Scan has a servo-assisted, fully automatic system that accepts and scans (TOUCH-FREE) the impressed plates, recognises the size, imports the image to the PC and deletes all the data from the plate so it is immediately ready for the next image capture.

FAST IMAGE DISPLAY

A high quality image can be imported in just a few seconds. Equipped with cutting-edge technology, Hy-Scan lets users view sharp images extremely quickly, leading to effective diagnosis and better communication with the patient.

iRYS - iPad CONNECTIVITY

Import data quickly thanks to the ethernet connection. Save and display captured images on the PC using the all-in-one iRYS diagnostic software with the convenient iPad viewer app and with any other control programme or image viewer equipped with a TWAIN or DICOM interface.

HIGH QUALITY IMAGES IN EVERY APPLICATION

Hy-Scan is the ideal tool for all clinical applications: endodontics, prostheses and implant surgery, periodontics and caries diagnosis. It reliably provides the very best high definition images with a resolution of 34 pixel/mm. The scanner is compatible with four sizes for the acquisition of paediatric (Size 0), periapical (Size 1), bitewing (Size 2) and long bitewing (Size 3) images with a pixel size of 30 µm.

THE BEST WORKFLOW FOR EFFECTIVE DIAGNOSISI

Take X-rays with the desired plate size via user-friendly positioning and, if necessary, book the networked scanner. Capture high definition images by inserting the plates one at a time. The images are then transferred to the local PC and/or sent to the client who booked it, ready to be consulted, shared and stored with iRYS software (or other viewer), printed and e-mailed.

Perfect for your diagnostic needs.

Diagnosis in the palm of your hand: acquire intraoral images, view them on the touch-sensitive display and use them for all your clinical needs. X-pod smooths workflows, improves communication with the patient and optimises investment in your surgery.
MyRay, just right for you.

Technical specifications.

X-pod	
Handheld unit dimensions	142 x 83 x 31 mm / 5.6 x 3.3 x 1.2 pollici
Handheld unit weight	0.38 Kg / 0.8 lbs
Display dimensions	95 x 54 mm / 4.3 inches (diagonal)
Display colour performance	16.7 million colours, 500 cd/m² backlighting, anti-reflection screen
Interface requisites PC or MAC*	USB 2.0 or later, Bluetooth 2.0 EDR, SD / SDHC card
Power supply	5 V DC, 500 mA (USB) / 9 V DC, 1.5 A (fast charge adapter)
Image format	JPG, PNG, BMP, TIF
Maximum image size	3 - 4.5 Mb
Acquisition software (for PC*)	iCapture with TWAIN interface
Image management software (for PC*)	iRYS with DICOM 3.0 interface
Supported operating systems	Microsoft® Windows® 10 Professional 64 bit Apple® Mac OS X 10.5 Leopard or later versions*
Display settings	280 x 1024; 1344 x 768 or greater, 16 million colours

*Note: the image acquisition and processing programme for Mac OS is NOT supplied.

Intraoral sensors	REGULAR - Size 1	LARGE - Size 2
External dimensions (mm)	38.9 x 24.9	41.9 x 30.4
Thickness (mm)	5.3	5.7
Pixel matrix	1500 x 1000	1700 x 1300
Pixel size (µm)	20	20
Max. spatial resolution (lp/mm)	25	25
Digital image depth in bits	14-bit acquisition - 16,384 levels of grey	
Scintillator technology	CsI (Caesium Iodide) with micro-columnar structure	
Protection against direct exposure	FOP (Fibre Optics Plate)	
Compatibility with X-ray generators	Any AC or DC technology X-ray generator with kV values in the 60 – 70 kV range and precision control of exposure times	

CE

www.my-ray.com

BU Medical Equipment
Plant - Via Bicocca, 14/c - 40026 Imola - Bo (Italy) tel. +39 0542 653441 - fax +39 0542 653555
Headquarters - Cefla s.c. Via Selice Provinciale, 23/a - 40026 Imola - Bo (Italy) tel. +39 0542 653111 - fax +39 0542 653344
Cefla North America, Inc. 6125 Harris Technology Blvd. Charlotte, NC 28269 - U.S.A. Toll Free: (+1) 800.416.3078 Fax: (+1) 704.631.4609

X-pod
Portable imaging system

BLUETOOTH CONNECTION
Instantaneous, wireless transfer of images onto the PC directly with interference-free protocol (patented).

FAST CONNECTOR
MyRay size 1 sensor interchangeable with size 2, with strong stable connection.

MEMORY (SD CARD)
Store and organise hundreds of images directly on the removable Secure Digital Card.

DISPLAY (4,3")
See every detail on the high definition touch-screen thanks to three zoom levels.

HIGH DEFINITION SENSOR (CSI+FOP+CMOS)
The Cesium Iodide (CsI) scintillator, the optic fibre layer (FOP) and high definition CMOS sensor (20µm) provide always-sharp, clear images.

A new vision of intraoral imaging.

Acquire, display, process and manage every detail directly in the palm of your hand on the most versatile, modern device available.

X-pod, the exceptional portable wireless device with large touch-screen display, let's you take control and decide how to manage your workflow, letting you enjoy fast consultation, storage and sharing of diagnostic images.
Acquire intraoral X-rays, view them and show them to your patient immediately to ensure more effective communication.
You can synchronise it with the iRYS software on your PC or work in complete independence, saving and processing images on the SD memory card.
Portable, versatile, high quality diagnostic.

- Immediate diagnostics
- Real-time image processing
- Portability and working freedom
- Synchronisation with PC - iRYS software
- Bluetooth image transfer

Powerful X-pod software provides an array of advanced functions with an intuitive graphic interface that lets you save and process images directly on the device without any need for a PC connection.

- Edit the patient name
- Modify filters to improve luminosity and contrast
- Measure point-to-point distance and calibrate the image
- Assign the dental region on the Dentition Chart
- Correct image rotation
- Archivia su cartella paziente

LONG BATTERY LIFE AND PORTABILITY
X-pod is compact, pocket-sized and offers outstanding battery life. The lithium polymer battery allows day-long use, inside and outside the surgery, without ever having to worry about charging.
Images are saved and organised in patient-specific folders on the removable Secure Digital memory card.

SMART HOLSTER
When it's not in the palm of your hand, X-pod can be stowed in the smart Holster. This holder that can be installed on any surface, such as on the arm of your intraoral X-ray unit. Thanks to the efficient, adjustable system, the image can be rotated and the display tilted to give the best viewing angle.

WORKLIST - iRYS SOFTWARE
Set up the patient acquisition list from the PC using the outstanding all-in-one iRYS software and consult patient folders on the X-pod screen. Acquire images, then display and save them directly in patient folders with all the correct position and size data. Transfer and synchronise data on the PC-based iRYS database with a USB lead at the end of the day or instantaneously via Bluetooth using secure interference-free MyRay transmission technology (Patented).

ERGONOMIC - RELIABLE - DURABLE SENSOR
The sensor features ergonomic design with rounded corners, a thin profile and a flexible lead; all this ensures adaptation to the anatomy of the oral cavity and efficient, comfortable positioning. The optic fibres layer (Fibre Optics Plate) collimates the radiation, ensuring clearly defined images and protecting against direct X-ray penetration to extend the working life of the sensor.
The X-pod sensor is made of exceptionally high quality materials and is resistant to impact, liquids and dust..

Available in size 1 and size 2, it adapts to all types of examination.

www.my-ray.com

BU Medical Equipment
Plant - Via Bicocca, 14/c - 40026 Imola - Bo (Italy) tel. +39 0542 653441 - fax +39 0542 653555
Headquarters - Cefla s.c. Via Selice Provinciale, 23/a - 40026 Imola - Bo (Italy) tel. +39 0542 653111 - fax +39 0542 653344
Cefla Medical North America
6125 Harris Technology Blvd. - Charlotte, NC 28269 - Ph: 704 598 0020 - www.ceflamedicalna.com - info@cefladental.com

Zen-X DCiS

DC Wireless intraoral sensor

As simple as freedom!

The first intraoral sensor with Wire Free system and DC (Direct Conversion), for accurate X-ray imaging in just a few steps.
Cordless for maximum usability.
Compact and ergonomic for patient comfort.
Wire Free. To be free.

IP67 certified for protection against liquids and dust.

WATERPROOF

COMPACT
Less stress for the patient with rounded edges. Minimum thickness thanks to Direct Conversion (DC) technology which streamlines the number of internal components. Extremely slim rechargeable lithium battery housing hub.

PRACTICAL
Status LED on the back.
Size 2 with large active area for generation of the X-ray image.

WIRE FREE
Antenna for data reception in Wireless mode: minimum consumption, maximum image yield.

ALL IN ONE
Docking station for housing and charging the sensor when not in use.

WHEREVER YOU WANT
Place your docking station on a work surface, on your desk or on the wall using the special fixing kit. Status LED always visible. Simple and always accessible USB connection.

Efficient and patient-friendly.

Enhance your workflow and patient experience with Zen-X DCiS. The right tool to get the most out of your time.

Experience the convenience of our Wire Free system: no cables to hinder movements; no stress for the patient thanks to the sensor low thickness and rounded corners; accessories to facilitate positioning while minimising discomfort for the patient.
Since the cable is the part most exposed to wear, the Wire Free system also guarantees a longer sensor life.
Zen-X DCiS, integrating direct conversion technology, has no internal easily breakable components and is therefore more resistant to falls and impacts.
Simply the best.

- Compact and minimally invasive
- Cordless
- Easy positioning

DESIGNED TO LAST

Stronger outer shell and internal components for increased impact and compression resistance and a longer life. No fragile components such as the scintillator which is required in sensors that do not integrate DC technology.

COMFORT

Non-invasive sensor thanks to its extremely low thickness and smooth lines without edges.
Zen-X DCiS puts patient health and care first.

POSITIONING

Alignment system created specifically for Zen-X DCiS that does not add extra bulk to the sensor profile and guarantees superior patient comfort.
Easy to position, it allows the X-ray unit to be brought closer to the patient face exposing only the required areas - thanks to a special alignment ring and positioners designed to adapt perfectly to specific diagnostic needs.

The ultimate 2D imaging.

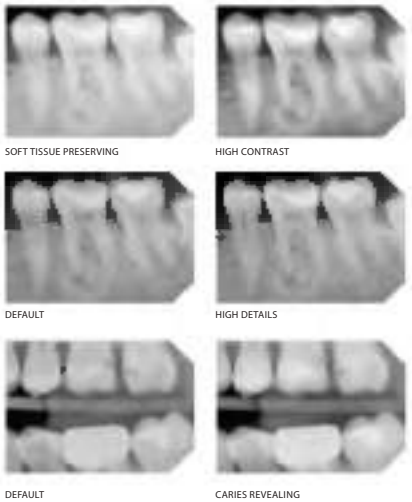
First wireless direct conversion sensor.
Zen-X DCiS incorporates all the best high-tech imaging technologies.

Zen-X DCiS integrates direct conversion technology, which does not require the conversion of X-rays into visible light.
Fewer steps, fewer components, smaller footprint and above all - perfect image quality.
Once scanning is complete, iRYS will take care of everything.
MyRay's native software features advanced filters to further enhance the image or emphasize details.
Less is more.

- Fewer required steps
- More sharpness
- Better contrast
- Minimal bulk
- Long life

MultiMAGE

This original MyRay function is designed to meet the real needs of dentists like you.
By using proprietary PiE (Powerful image Enhancer) algorithms optimised for the Zen-X DCiS sensor, this function lets dentists simultaneously capture, display and share a set of up to 5 images. Each image is the result of a different type of improvement designed to highlight various anatomical details with different levels of sharpness and contrast, ensuring dentists can diagnose better.



PiE (Powerful Image Enhancer) FILTERS

New set of filters to highlight all the details necessary for different clinical requirements.

Soft tissue preserving: keeps areas at risk of image darkening unaltered to highlight soft tissues.

High contrast: enhances the contrast, if the image is low in contrast due to anatomical reasons or X-ray parameters.

Default: balances noise, contrast and sharpness.

High details: emphasizes image details.

Caries revealing: improves the contrast level of bitewing images allowing easier identification of interproximal caries.

IN-DEPTH DETAIL

The best of 2D X-ray imaging: Zen-X DCiS direct conversion sensor produces sharper images with better contrast than a conventional sensor.

THE BENEFITS OF DIRECT CONVERSION

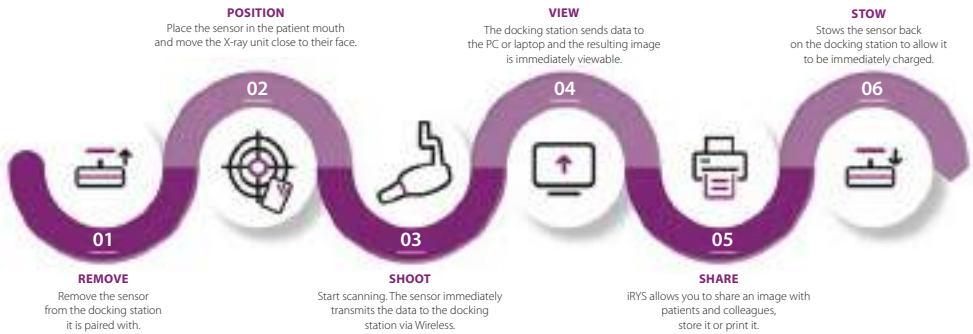
With a standard sensor X-rays have to be converted into visible light, using a scintillator, because the sensor reacts to light like a photographic film. Zen-X DCiS, on the other hand, is a direct conversion sensor: it receives and processes X-rays directly. Fewer steps mean a lower risk of diagnostic information loss, sharper and well-contrasted images, even at low doses.

Your best workflow solution.

Choose the configuration that best suits your needs.
The sensor adapts to your work, not the other way around.

Zen-X DCiS streamlines your workflow and integrates seamlessly into your clinic.
Through Wireless technology, the sensor interacts with the docking station wirelessly and with minimum power consumption with no impact on quality.
In just a few seconds the image is available on the monitor to be shared with the patient and colleagues.
With iRYS you can browse through images, calibrate them or use pre-settable filters.
The software allows pairing with the dentition chart and has predefined layouts to quickly store and view the X-rays.
A preferred combination of sensors and docking station can also be chosen.
Zen-X DCiS is made to look like you!
It fits!

- Images available immediately
- Several possible configurations
- Energy saving



POSITION
Place the sensor in the patient mouth and move the X-ray unit close to their face.

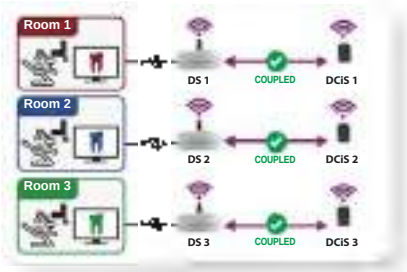
VIEW
The docking station sends data to the PC or laptop and the resulting image is immediately viewable.

STOW
Stows the sensor back on the docking station to allow it to be immediately charged.

REMOVE
Remove the sensor from the docking station it is paired with.

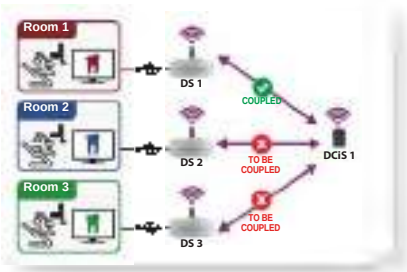
SHOOT
Start scanning. The sensor immediately transmits the data to the docking station via Wireless.

SHARE
iRYS allows you to share an image with patients and colleagues, store it or print it.



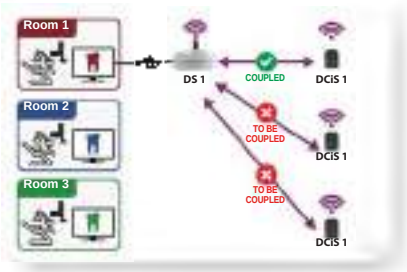
WORKFLOW A

1 to 1 pairing.
Each sensor interacts with its own docking station. Simultaneous data transmission is also possible.



WORKFLOW B

1 to many pairing.
A single sensor interacts with multiple docking stations. The sensor can interact with only one docking station at a time.



WORKFLOW C

Many to 1 pairing.
Several sensors interact with a single docking station. Transmission can occur from only one sensor at a time.

Optional accessories.

Add the alignment system designed for Zen-X DCiS.
Choose where to keep the docking station.
Optimized ergonomics and maximum user-friendliness.

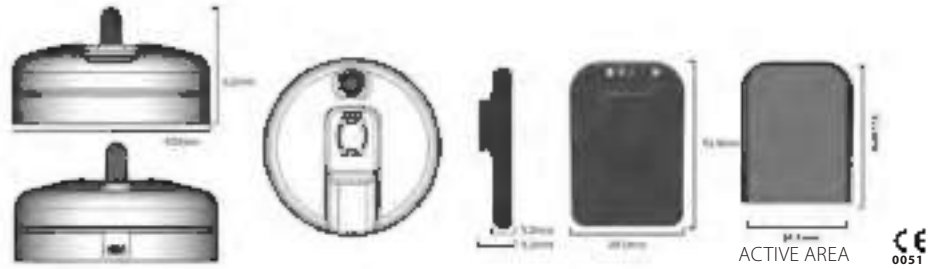
Alignment system that facilitates positioning.
No extra bulk for the sensor profile which is therefore minimally invasive in the patient's mouth for superior comfort.
The system allows the X-ray unit to be brought closer to the patient's face, focussing the X-ray emission only on the area to be examined.
A special kit allows you to install the docking station on the wall, freeing up workspace.
It's that easy!

- Minimally invasive in the mouth
- Easy positioning
- Optimal alignment
- Wall fixing of the docking station

Technical specifications.

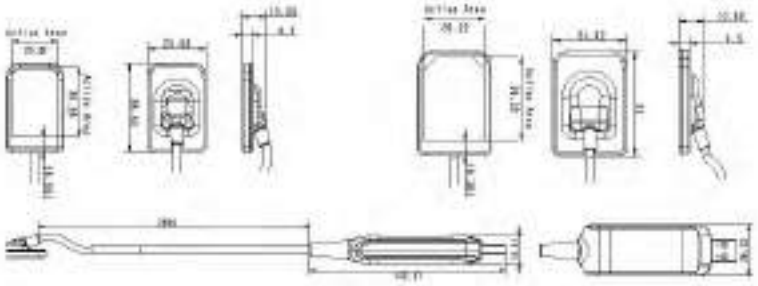
DIMENSIONS	
Sensor size	2
Sensor footprint	43.4 mm (height) x 29.5 mm(width)
Sensor thickness	5.2 mm (9.2 mm considering the battery housing hub)
Active area	35.1 mm x 24.7 mm
Docking station	100 mm (diameter) x 62 mm (height)
USB lead length	2 m (supplied to connect docking station to PC/laptop)
IMAGE ACQUISITION	
Pixel matrix	1350 x 950 (1,282,500 pixel)
Detector	Single-crystal direct-conversion silicon / CMOS
MTF (Modulation Transfer Function)	> 70% @ 5 lp/mm, > 40% @10 lp/mm
Exposure parameters	0.1-0.5 s, 60-70 kV, 6/8 mA, 20 cm (8") cone
Wireless image transmission time	Less than 10 s under optimal working conditions
SENSOR TECHNICAL SPECIFICATIONS	
Internal battery	Rechargeable lithium ion (capacity 19 mAH)
Degree of protection	IP 67 (Guaranteed against liquid or dust infiltration)
Integrated RAM memory	4 MB (maximum 1 preservable image)
Image transmission technology	Wireless
Wireless operating distance	Up to 2.5 m from docking station
Compatibility with X-ray generators	Wall-mounted or cart (both AC and DC): 2-10 mA and 60-70 kV. Portable: 2-10 mA and 60-70 kV.
Complete recharge time	3.5 h (allows acquisition of 140* consecutive images, with a 40 s pause between two examinations)
Minimum advisable recharge time	15 minutes (allows acquisition of 19* consecutive images, with a 40 s pause between two examinations)
SOFTWARE	
Acquisition software (for PC)	iCapture with dedicated filters for third party software
Image management software (for PC)	iRYS (complies with ISDP°10003:2020 as per EN ISO/IEC17065:2012 certificate number 2019003109-2)
Supported protocols	DICOM 3.0, TWAIN, VDDS
DICOM nodes	IHE compliant (Print; Storage Commitment, SR document; WorkList; MPPS; Query/Retrieve)
MINIMUM SYSTEM REQUISITES	
Supported operating systems	Microsoft® Windows® 10 Pro 64 bit - Windows® 11 Pro 64 bit
Processor	6th generation Intel i5 or equivalent
Hard disk	Intel Core i3, 10th generation (or higher)
RAM	4 GB (8 GB or superior recommended)
Graphics card	3D VideoCard 1 GB RAM (DirectX 11 / OpenCL v1.2 or later support)
Display	1920x1080 pixel 24bit RGB Full HD
COMMUNICATION INTERFACES	
Docking station connection port	USB-C
PC/laptop connection port	USB-A
Power supply	+5V ± 10%
Input power	2,5 W

* Values susceptible to a reduction in performance due to effective battery life (the battery must only be replaced by qualified technicians).



Technical specifications.

INTRAORAL SENSORS	Size 1	Size 2
External dimensions (mm)	38.5 x 25	45 x 31.6
Thickness (mm)	4.5	4.5
Pixel matrix	1500 x 1000	1800 x 1300
Pixel size (µm)	20	20
Max. resolution (lp/mm)	25	25
Grey level depth	16-bit acquisition - max 65,535 grey levels	
Sensor technology	APS CMOS	
Scintillator technology	Direct deposition CsI (Caesium Iodide)	
Case protection rating	IP68 (Guaranteed against liquid or dust infiltration)	
Compatibility with X-ray generators	Any AC or DC technology X-ray generator with values in the 60 – 70 kV and 1-8 mA range and precision control of exposure times	
Connectivity	Direct USB to PC	
Acquisition software (for PC)	iCapture with dedicated Zen-X E image filters for third-party software and for automatic saving of RX DC exposure parameters on PC	
Image management software (for PC)	iRYS (complies with ISDP©10003:2020 as per EN ISO/IEC17065:2012 certificate number 2019003109-2)	
Supported protocols	DICOM 3.0, TWAIN, VDDS	
DICOM Node Connectivity	IHE compliant (Print; Storage Commitment, SR document; WorkList; MPPS; Query/Retrieve)	
X-ray log	iRYS feature to associate exposure parameters with the X-ray images of each ex-amination	
Minimum system requisites		
Supported operating systems	Microsoft® Windows® 10, 11 (Professional 64 bit)	
Processor	Intel Core i3 or later	
RAM	4 GB (8 GB recommended)	
Graphics card	Discrete 3D Video Card or integrated GPU	
Display settings	1280 x 1024; 1344 x 768 or greater, 16 million colours	
Port	USB 2.0 or later versions	
Power supply	Use a power supply with suitable power for the video board in use	



CE 0051

myray new comfort in digital imaging

www.my-ray.com

BU Medical Equipment
Plant - Via Bicocca, 14/c - 40026 Imola - Bo (Italy) tel. +39 0542 653441 - fax +39 0542 653555
Headquarters - Cefla s.c. Via Selice Provinciale, 23/a - 40026 Imola - Bo (Italy) tel. +39 0542 653111 - fax +39 0542 653344
Cefla Medical North America
6125 Harris Technology Blvd. - Charlotte, NC 28269 - Ph: 704 598 0020 - www.ceflamedicalna.com - info@cefladental.com

Zen-X E

Direct USB "Series E" intraoral sensor

myray new comfort in digital imaging

Zen-X E.

The Enhanced sensor that takes performance in your practice to the next level. High resolution, extreme user-friendliness and maximum patient comfort.

Optimise work with the new Zen-X E intraoral sensor.
Thin and comfortable for the patient, easy to handle for dentists and assistants.
High quality images - even at low X-ray doses - ensure clear diagnosis and effective treatment.
Discover the features that allow Zen-X E to deliver an improved patient experience and smoother workflows.
So tiny. So great.

- Ergonomics and comfort
- Easy positioning
- Highly detailed images
- Liquid-proof

Light and compact **IP68** certified for protection against liquids and dust.

HD QUALITY
More sensitive than the other wired sensors in the range, Zen-X E guarantees extremely detailed images.

ERGONOMICS
Rounded corners and a thin profile ensure comfortable insertion in the oral cavity.

PLUG&PLAY
Work anywhere: the 3-meter long cable maximises freedom of movement and provides immediate USB connection.

Designed to streamline work.

Zen-X E optimises ergonomics, improving both the patient experience and examination accuracy.

Just 4.5 mm thick and featuring rounded corners, Zen-X E minimizes patient discomfort and streamlines workflows. Available in two sizes, both with an extensive active area to maximise the view with a single exposure.
The Plug & Play system allows immediate display of the image on a PC or laptop, minimising appointment times.
With Zen-X E you can count on accurate X-ray imaging for a wide range of exams, with special positioners ensuring precise framing.
With clear advantages for both the patients and the practice.
This is the way.

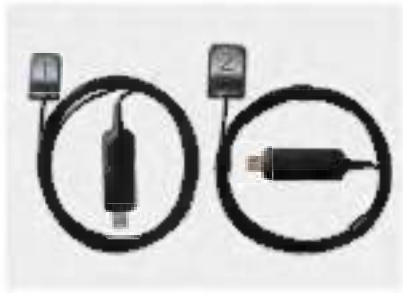
- Extensive active area
- Flexibility
- Reliability
- Plug & Play

LOW BULK, LARGE ACTIVE AREA

Available in 2 sizes, Zen-X E optimizes sensor bulk for both adult and child patients thanks to an active area that almost reaches the edge.
The sensor adapts to the anatomy of the oral cavity, reconciling the dual need for comfort and a clear diagnosis, with special positioners maximising exam accuracy.

PROTECTED

The IP68 certified Zen-X E provides resistance to liquids and dust above the market average.
An aluminium layer protects it from knocks and accidental falls, as does the special design of the internal layers that convert the X-ray beam into the final image.



EXTRA-LONG PLUG & PLAY CABLE

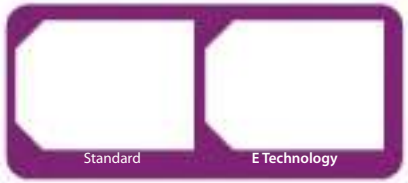
The 3 metre long cable ensures excellent freedom of movement. Take Zen-X E anywhere, take advantage of direct USB connectivity to your PC or laptop.
The on-cable stabilizer reduces energy consumption, keeping the temperature of the sensor in the oral cavity under control.
Furthermore, there's no need to put the device on standby and interrupt workflows.

Multiply opportunities.

Advanced Zen-X E hardware and software boost diagnostic capacity and let you process/browse images with ease.

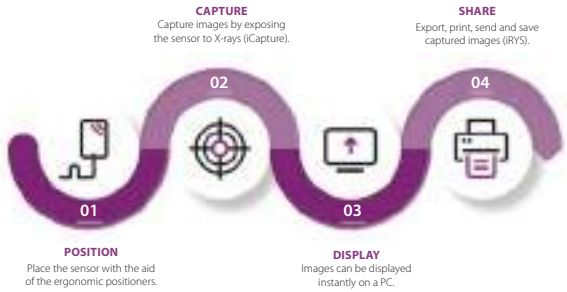
More sensitive than its predecessors, Zen-X E provides - dosage remaining equal - excellent definition, allowing you to see details such as coronal micro-fractures; this outstanding detail is maintained even at low doses.
User-friendly, customisable iCapture software quickly transfers captured images to your computer. Once transfer has been completed, MultIMAGE technology lets you view up to 5 different images with a single scan.
Last but not least, the processing software lets you share X-rays in real time with the patient or colleagues.
Better and better.

- High-sensitivity sensor
- MultIMAGE technology
- PiE (Powerful image Enhancer)
- Proprietary iRYS software



MORE DEFINITION AT LOW DOSE
Low X-ray doses and sharper images ensure a clear diagnosis.

OPTIMAL WORKFLOW
Ergonomic positioners allow optimal placement of the sensor, which is always ready for exposure.
Following acquisition, images are loaded directly onto the PC. They can then be saved, consulted and shared via iCapture software (TWAIN), all-in-one iRYS software (DICOM) or with a free image viewer or iPAD app before being printed or sent via e-mail.



PiE (Powerful image Enhancer)
MultIMAGE technology applies proprietary PiE algorithms, optimized for Zen-X E, to capture, display and share sets of (up to 5) images.
Each image highlights a different anatomical detail by modulating sharpness and contrast.

New set of filters to highlight all the details necessary for different clinical requirements.

NATURAL | SMOOTH | BALANCED | SHARP

Natural image: pure, thanks to the **RAW filter** which does not apply any processing-related alterations.

Smooth image: preserves areas at risk of darkening thanks to the **Soft Tissues Preserving filter** that enhances low-density tissues.

Balanced image: perfect for most applications, thanks to the **Default filter** that balances contrast and noise.

Sharp images: small carious lesions are more visible with the **High Details filter** that optimises contrast to emphasise image details.

iRYS
The sensor interfaces smoothly with the iRYS software installed on the PC. This provides rapid image browsing, calibration, pre-settable filters, association with the dentition chart and automatic predefined layouts that let dentists consult an individual patient's X-rays quickly.

Multiple Images for every level of detail.

Latest-generation Zen-X image processing software aims to improve diagnostics. With outstanding image resolution and a user-friendly interface, Zen-X makes image reading easier to meet your needs more effectively.

Equipped with iRYS software, Zen-X now offers the most advanced, versatile image processing filter pre-setting on the market. Users can select which filters to use from among the pre-set families and define any further customisations according to their visual or diagnostic preferences.
All filters are accessible from the iRYS image display window, where users can decide which ones to apply automatically.
This provides individual dentists with a customised comfort zone for every appointment.

MultiMAGE
This original MyRay function is designed to meet the real needs of dentists like you. By using proprietary PiE (Powerful image Enhancer) algorithms optimised for the Zen-X sensor, this function lets dentists simultaneously capture, display and share a set of up to 5 images. Each image is the result of a different type of improvement designed to highlight various anatomical details with different levels of sharpness and contrast, ensuring dentists can diagnose better.

Technical specifications.

SENSOR: X-VS	SIZE 1 - REGULAR	SIZE 2 - LARGE
External dimensions (mm)	38.9 x 24.9	41.9 x 30.4
Thickness (mm)	5.3	5.7
Pixel matrix	1500 x 1000	1700 x 1300
Pixel size (µm)	20	20
Maximum resolution (lp/mm)	25	25
Grey levels depth	14-bit acquisition - 16384 maximum grey levels	
Scintillator technology	CsI (Cesium Iodide) with micro-columnar structure	
Direct exposure protection	FOP (Fibre Optics Plate)	
Protection rating	IP 67 (Guaranteed against liquid or dust infiltra-tion)	
Compatibility with X-ray generators	Any AC or DC technology X-ray generator with kV values in the 60 – 70 kV range and precision con-trol of exposure times	
Connectivity	Direct USB to PC	
Image capture software (for PC)	iCapture with dedicated filters for third party soft-ware	
Image management software (for PC)	iRYS (as per ISDP©10003:2020 in compliance with EN ISO/IEC17065:2012 - certificate number 2019003109-2) and iPad iRYS viewer app (free)	
Supported protocols	DICOM 3.0, TWAIN, VDDS	
DICOM nodes	IHE compliant (Print; Storage Commitment, SR document; WorkList; MPPS; Query/Retrieve)	
Minimum system requisites		
Supported operating systems	Microsoft® Windows® 10 Professional 64 bit	
Display settings	1280x1024; 1344 x768 or greater, 16 million col-ours	
Port	USB 2.0 or subsequent	
Power supply	5 V DC, 500 mA (via USB)	

CE
0051

www.my-ray.com

BU Medical Equipment
Plant - Via Bicocca, 14/c - 40026 Imola - Bo (Italy) tel. +39 0542 653441 - fax +39 0542 653555
Headquarters - Cefla s.c. Via Selice Provinciale, 23/a - 40026 Imola - Bo (Italy) tel. +39 0542 653111 - fax +39 0542 653344
Cefla North America, Inc. 6125 Harris Technology Blvd. Charlotte, NC 28269 - U.S.A. Toll Free: (+1) 800.416.3078 Fax: (+1) 704.631.4609

09/2023 MZENGB201500

Zen-X
HD direct USB X-ray Sensor

ERGONOMIC DESIGN
Thin profile,
rounded corners
and flexible lead.
Maximum active area.

HD SENSOR
Multi-layer sensor
(CsI + FOP + CMOS),
high definition technology.

WATERPROOF

RELIABLE AND HARD-WEARING
Resistant to dust and liquids,
IP 67 certified.

DIRECT USB
USB direct plug-and-play
connection to display
Real-Time images.

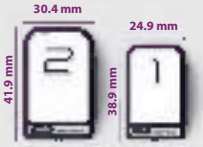
Real time diagnostics.

High definition, immediacy, reliability and ergonomics.
Zen-X offers all the advantages of real-time digital technology to obtain and share high quality images with ease.

Capture and consult the best high definition intraoral images immediately. Zen-X saves time and make communication with patients more effective thanks to automatic acquisition and USB direct plug-and-play connection.
Available in two sizes, it features ergonomic design with smoothed edges, rounded corners and a flexible lead, maximising both active area and positioning comfort.
Made of extremely hard-wearing materials of the highest quality, it is compatible with all intraoral X-ray generators.
The precision of modern technology.

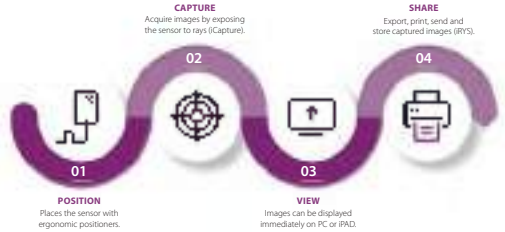
- Easy, fast, portable, real-time
- Maximum active area with optimal ergonomics
- Resistant to impact, dust and liquids
- Plug-and-play with iCapture software
- All-in-one iRYS software - Free Viewer and iPAD app

LATEST-GENERATION HD MULTI-LAYER SENSOR
The Cesium Iodide (CsI) scintillator intercepts the X-ray beam and converts it into visible light while preserving image quality.
The layer of fibre optics (Fibre Optics Plate) collimates the radiation onto the sensor and protects it against direct X-ray penetration.
The high definition acquisition device with 20 µm cells (HD CMOS) converts the light into a digital image which is then processed by the on-board electronics, ready to be transferred to a USB port.



FOR ALL YOUR NEEDS
Whatever your task, Zen-X will help you complete it.
Available in two sizes, it adapts to all types of examination.

IRYS, EASY COMMUNICATION
The sensor integrates perfectly with the iRYS software installed on the PC and the 2D image viewer for iPAD; iRYS is the all-in-one solution for 2D and 3D diagnostics, communication and intraoral imaging management. Provides simple yet comprehensive processing tools: fast browsing of captured images, calibration and pre-settable filters, association with the dentition chart and automatic pre-definable layouts with which to save and consult patient X-rays relative to different treatment sessions.



OPTIMAL WORKFLOW
Ergonomic positioners allow optimal placement of the sensor, which is always ready for exposure.
Following acquisition, images are loaded directly onto the PC. They can then be saved, consulted and shared via iCapture software (TWAIN), all-in-one iRYS software (DICOM) or with a free image viewer or iPAD app before being printed or sent via e-mail.

TECHNICAL DATA	
Resolution (theoretical)	17 lp/mm
Image pixel size	30 µm
Image grey levels	16 bit (65,536 grey levels)
Supported plate sizes	Size 0, 1, 2, 3
Plate size selection	Automatic
Read time	4 – 8 s
Plate Deletion	Automatic
Dimensions (H x L x P)	176 x 133 x 264 mm
Weight	3.8 kg
Power supply	110 - 240 V 50/60 Hz (24 Watts)
Connectivity	ETHERNET direct to PC or in LAN
Acquisition software (for PC)	iCapture with MultiROOM interface for third party software
Image management software (for PC)	iRYS (complies with ISDP©10003:2020 as per EN ISO/IEC17065:2012 certificate number 2019003109-2) and App iPad iRYS viewer (free)
Supported protocols	DICOM 3.0, TWAIN, VDDS
DICOM nodes	IHE compliant (Print; Storage Commitment, SR document; WorkList; MPPS; Query/Retrieve)

CE
0051

Size 0
22 x 31 mm
Pixels
762 x 1024
Memory
size 1 MB

Size 1
24 x 40 mm
Pixels
792 x 1321
Memory
size 2 MB

Size 2
31 x 41 mm
Pixels
1024 x 1354
Memory
size 3 MB

Size 3
27 x 54 mm
Pixels
891 x 1783
Memory
size 4 MB

MINIMUM SYSTEM REQUIREMENTS	
Supported operating systems:	Microsoft® Windows® 10 Professional 64 bit
Display settings:	1280 x 1024; 1344 x 768 or greater, 16 million colours
Port:	PC Server: RJ 45 | PC Client connected in LAN

www.my-ray.com

BU Medical Equipment
Plant - Via Bicocca, 14/c - 40026 Imola - Bo (Italy) tel. +39 0542 653441 - fax +39 0542 653555
Headquarters - Cefla s.c. Via Selice Provinciale, 23/a - 40026 Imola - Bo (Italy) tel. +39 0542 653111 - fax +39 0542 653344
Cefla North America, Inc. 6125 Harris Technology Blvd. Charlotte, NC 28269 - U.S.A. Toll Free: (+1) 800.416.3078 Fax: (+1) 704.631.4609

09/2023 MFOSGB201S00

Hy-Scan
Phosphor
plate scanner

MultiROOM
MultiMAGE

Uncompromising simplicity and quality.

Always-reliable diagnosis, comfort, user-friendliness and fast capture times. Hy-Scan gives access to unrivalled digital technology and film-like ergonomics - all in one compact, affordable device.

MyRay, just right for you.

ETHERNET CONNECTION
Fast, secure transfer of images to the PC next to the workstation or directly from the server in MultiROOM.

LED STATUS INDICATOR
Process always under control with instantaneous display of scanner status (ready / reading / image deletion / standby / etc.) thanks to the status indicator.

TOUCH-FREE
Fully automatic plate reading process.

IMPROVED ERGONOMICS:
Thin, flexible, wireless like a film, 100% active area without positioning limitations.

MAGNETIC PLATE:
perfectly integrated with the phosphor layer to optimise the reading process with an automatic TOUCH-FREE acquisition sequence start.

HIGH SENSITIVITY:
improved image quality, minimum X-ray dose for the patient.

PLATE BOX
Practical, portable container to store and protect plates tidily.

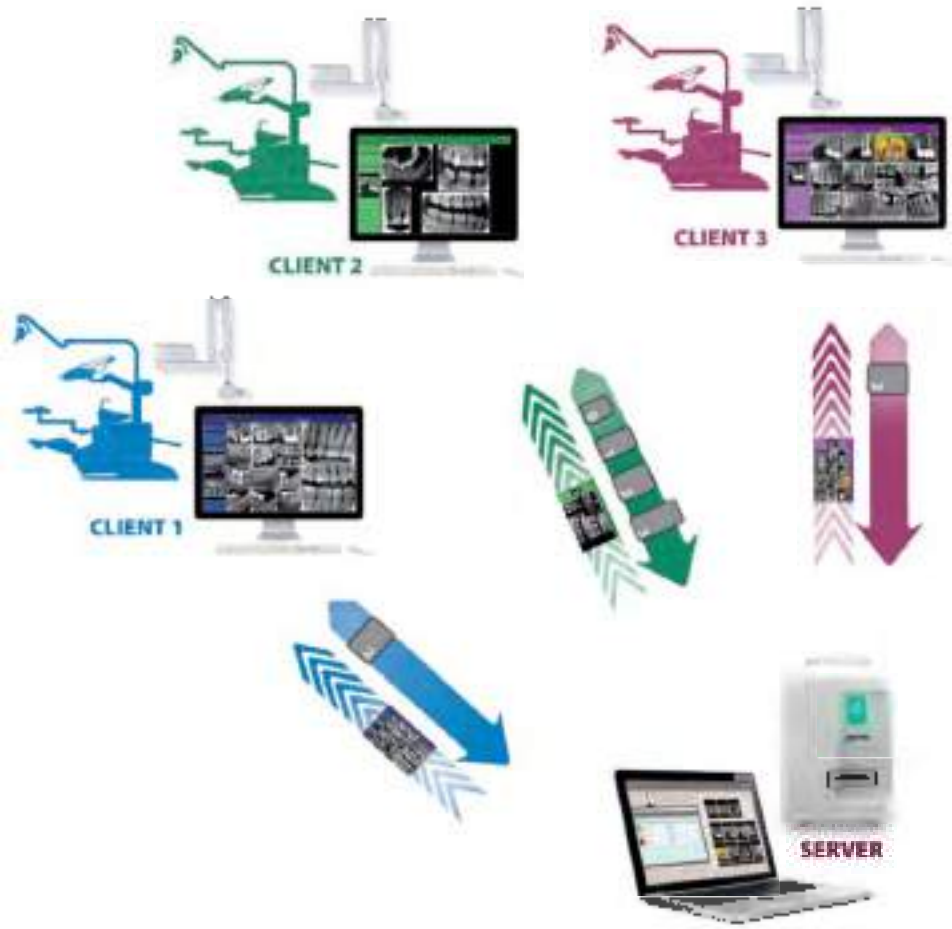
ULTRA-COMPACT AND ERGONOMIC
Featuring essential, compact design, the Hy-Scan scanner is perfect for any dental surgery. Extremely versatile, it can be installed both horizontally on the table or wall-mounted vertically using the special bracket..

Functions that make the difference.

Thanks to constant iRYS software development, MyRay solutions benefit from ever-better functions and performance that respond to dentists' real needs.

A series of cutting-edge image processing filters are provided to ensure the system genuinely improves diagnostics. Users can select which filters to use from among the pre-set families and define any further customisations according to their visual or diagnostic preferences. All filters are accessible from the iRYS image display window, where users can decide which ones to apply automatically.
Moreover, remote phosphor scanner control for clinics with multiple surgeries improves workflow, productivity and patient engagement.

- Optimized filters for phosphor plates
- Simultaneous management of 5 images
- Images improved for specific diagnoses
- Remote image control with MultiROOM
- Minimized management times



MultiMAGE
MyRay has developed a dedicated function to respond to the needs of dentists like you.
By using proprietary PiE (Powerful image Enhancer) algorithms optimised for phosphor plates, this function lets dentists simultaneously capture, display and share a set of (up to 5) images. Each image is the result of a different type of improvement designed to highlight various anatomical details with different levels of sharpness and contrast, ensuring dentists can diagnose better.

PERFECT FOR MULTIROOM USE
Hy-Scan lets you optimise dental clinic workflows in MultiROOM. Thanks to the MultiROOM function, usable via Hy-Scan, the remote scanning system (connected to the SERVER) can be managed with a reservation made directly from the workstation alongside the patient (CLIENT PC).

The patient is defined by a name and the colour of the surgery. A simple APP - available in iCapture - lets you automatically save a series of remotely scanned images on the medical record of the patient, who is pre-selected in iRYS from the surgery from which you made the reservation. These images will be displayed immediately on the PC next to the patient.

Hy-Definition.

Outstanding digital imaging quality combined with the practicality and affordability of traditional film.

The Hy-Scan phosphor plate scanner provides the perfect balance between technology and tradition. Hy-Scan combines the very best digital diagnostic technology with the advantages of traditional film plates. A compact, fast, simple device to use, which produces high resolution intraoral images for always-reliable diagnosis. The plates, ergonomic and thin, are easy to position and offer maximum patient comfort.
The TOUCH-FREE plate insertion and recognition system makes the scan even simpler, also in MultiROOM. The scanner can import and digitize each image in rapid sequence in just a few seconds, allowing them be displayed immediately on the PC or, via a special APP, on an iPad.
Easy, compact, reliable diagnostics.

- Essential, light, compact design
- High definition digital images
- Ergonomics and positioning comfort
- TOUCH-FREE user-friendliness
- Hard-wearing and reliable in MultiROOM

TOUCH-FREE ACQUISITION

User-friendliness and maximum workflow efficiency. Hy-Scan has a servo-assisted, fully automatic system that accepts and scans (TOUCH-FREE) the impressed plates, recognises the size, imports the image to the PC and deletes all the data from the plate so it is immediately ready for the next image capture.

FAST IMAGE DISPLAY

A high quality image can be imported in just a few seconds. Equipped with cutting-edge technology, Hy-Scan lets users view sharp images extremely quickly, leading to effective diagnosis and better communication with the patient.

iRYS - iPad CONNECTIVITY

Import data quickly thanks to the ethernet connection. Save and display captured images on the PC using the all-in-one iRYS diagnostic software with the convenient iPad viewer app and with any other control programme or image viewer equipped with a TWAIN or DICOM interface.

HIGH QUALITY IMAGES IN EVERY APPLICATION

Hy-Scan is the ideal tool for all clinical applications: endodontics, prostheses and implant surgery, periodontics and caries diagnosis. It reliably provides the very best high definition images with a resolution of 34 pixel/mm. The scanner is compatible with four sizes for the acquisition of paediatric (Size 0), periapical (Size 1), bitewing (Size 2) and long bitewing (Size 3) images with a pixel size of 30 µm.

THE BEST WORKFLOW FOR EFFECTIVE DIAGNOSISI

Take X-rays with the desired plate size via user-friendly positioning and, if necessary, book the networked scanner. Capture high definition images by inserting the plates one at a time. The images are then transferred to the local PC and/or sent to the client who booked it, ready to be consulted, shared and stored with iRYS software (or other viewer), printed and e-mailed.

Perfect for your diagnostic needs.

Diagnosis in the palm of your hand: acquire intraoral images, view them on the touch-sensitive display and use them for all your clinical needs. X-pod smooths workflows, improves communication with the patient and optimises investment in your surgery.
MyRay, just right for you.

Technical specifications.

X-pod	
Handheld unit dimensions	142 x 83 x 31 mm / 5.6 x 3.3 x 1.2 pollici
Handheld unit weight	0.38 Kg / 0.8 lbs
Display dimensions	95 x 54 mm / 4.3 inches (diagonal)
Display colour performance	16.7 million colours, 500 cd/m² backlighting, anti-reflection screen
Interface requisites PC or MAC*	USB 2.0 or later, Bluetooth 2.0 EDR, SD / SDHC card
Power supply	5 V DC, 500 mA (USB) / 9 V DC, 1.5 A (fast charge adapter)
Image format	JPG, PNG, BMP, TIF
Maximum image size	3 - 4.5 Mb
Acquisition software (for PC*)	iCapture with TWAIN interface
Image management software (for PC*)	iRYS with DICOM 3.0 interface
Supported operating systems	Microsoft® Windows® 10 Professional 64 bit Apple® Mac OS X 10.5 Leopard or later versions*
Display settings	280 x 1024; 1344 x 768 or greater, 16 million colours

*Note: the image acquisition and processing programme for Mac OS is NOT supplied.

Intraoral sensors	REGULAR - Size 1	LARGE - Size 2
External dimensions (mm)	38.9 x 24.9	41.9 x 30.4
Thickness (mm)	5.3	5.7
Pixel matrix	1500 x 1000	1700 x 1300
Pixel size (µm)	20	20
Max. spatial resolution (lp/mm)	25	25
Digital image depth in bits	14-bit acquisition - 16,384 levels of grey	
Scintillator technology	CsI (Caesium Iodide) with micro-columnar structure	
Protection against direct exposure	FOP (Fibre Optics Plate)	
Compatibility with X-ray generators	Any AC or DC technology X-ray generator with kV values in the 60 – 70 kV range and precision control of exposure times	

CE

www.my-ray.com

BU Medical Equipment
Plant - Via Bicocca, 14/c - 40026 Imola - Bo (Italy) tel. +39 0542 653441 - fax +39 0542 653555
Headquarters - Cefla s.c. Via Selice Provinciale, 23/a - 40026 Imola - Bo (Italy) tel. +39 0542 653111 - fax +39 0542 653344
Cefla North America, Inc. 6125 Harris Technology Blvd. Charlotte, NC 28269 - U.S.A. Toll Free: (+1) 800.416.3078 Fax: (+1) 704.631.4609

X-pod
Portable imaging system

BLUETOOTH CONNECTION
Instantaneous, wireless transfer of images onto the PC directly with interference-free protocol (patented).

FAST CONNECTOR
MyRay size 1 sensor interchangeable with size 2, with strong stable connection.

MEMORY (SD CARD)
Store and organise hundreds of images directly on the removable Secure Digital Card.

DISPLAY (4,3")
See every detail on the high definition touch-screen thanks to three zoom levels.

HIGH DEFINITION SENSOR (CSI+FOP+CMOS)
The Cesium Iodide (CsI) scintillator, the optic fibre layer (FOP) and high definition CMOS sensor (20µm) provide always-sharp, clear images.

A new vision of intraoral imaging.

Acquire, display, process and manage every detail directly in the palm of your hand on the most versatile, modern device available.

X-pod, the exceptional portable wireless device with large touch-screen display, let's you take control and decide how to manage your workflow, letting you enjoy fast consultation, storage and sharing of diagnostic images.
Acquire intraoral X-rays, view them and show them to your patient immediately to ensure more effective communication.
You can synchronise it with the iRYS software on your PC or work in complete independence, saving and processing images on the SD memory card.
Portable, versatile, high quality diagnostic.

- Immediate diagnostics
- Real-time image processing
- Portability and working freedom
- Synchronisation with PC - iRYS software
- Bluetooth image transfer

Powerful X-pod software provides an array of advanced functions with an intuitive graphic interface that lets you save and process images directly on the device without any need for a PC connection.

- Edit the patient name
- Modify filters to improve luminosity and contrast
- Measure point-to-point distance and calibrate the image
- Assign the dental region on the Dentition Chart
- Correct image rotation
- Archivia su cartella paziente

LONG BATTERY LIFE AND PORTABILITY
X-pod is compact, pocket-sized and offers outstanding battery life. The lithium polymer battery allows day-long use, inside and outside the surgery, without ever having to worry about charging.
Images are saved and organised in patient-specific folders on the removable Secure Digital memory card.

SMART HOLSTER
When it's not in the palm of your hand, X-pod can be stowed in the smart Holster. This holder that can be installed on any surface, such as on the arm of your intraoral X-ray unit. Thanks to the efficient, adjustable system, the image can be rotated and the display tilted to give the best viewing angle.

WORKLIST - iRYS SOFTWARE
Set up the patient acquisition list from the PC using the outstanding all-in-one iRYS software and consult patient folders on the X-pod screen. Acquire images, then display and save them directly in patient folders with all the correct position and size data. Transfer and synchronise data on the PC-based iRYS database with a USB lead at the end of the day or instantaneously via Bluetooth using secure interference-free MyRay transmission technology (Patented).

ERGONOMIC - RELIABLE - DURABLE SENSOR
The sensor features ergonomic design with rounded corners, a thin profile and a flexible lead; all this ensures adaptation to the anatomy of the oral cavity and efficient, comfortable positioning. The optic fibres layer (Fibre Optics Plate) collimates the radiation, ensuring clearly defined images and protecting against direct X-ray penetration to extend the working life of the sensor.
The X-pod sensor is made of exceptionally high quality materials and is resistant to impact, liquids and dust..

Available in size 1 and size 2, it adapts to all types of examination.

www.my-ray.com

BU Medical Equipment
Plant - Via Bicocca, 14/c - 40026 Imola - Bo (Italy) tel. +39 0542 653441 - fax +39 0542 653555
Headquarters - Cefla s.c. Via Selice Provinciale, 23/a - 40026 Imola - Bo (Italy) tel. +39 0542 653111 - fax +39 0542 653344
Cefla Medical North America
6125 Harris Technology Blvd. - Charlotte, NC 28269 - Ph: 704 598 0020 - www.ceflamedicalna.com - info@cefladental.com

Zen-X DCiS

DC Wireless intraoral sensor

As simple as freedom!

The first intraoral sensor with Wire Free system and DC (Direct Conversion), for accurate X-ray imaging in just a few steps.
Cordless for maximum usability.
Compact and ergonomic for patient comfort.
Wire Free. To be free.

IP67 certified for protection against liquids and dust.

WATERPROOF

PRACTICAL
Status LED on the back.
Size 2 with large active area for generation of the X-ray image.

COMPACT
Less stress for the patient with rounded edges.
Minimum thickness thanks to Direct Conversion (DC) technology which streamlines the number of internal components.
Extremely slim rechargeable lithium battery housing hub.

ALL IN ONE
Docking station for housing and charging the sensor when not in use.

WIRE FREE
Antenna for data reception in Wireless mode: minimum consumption, maximum image yield.

WHEREVER YOU WANT
Place your docking station on a work surface, on your desk or on the wall using the special fixing kit. Status LED always visible. Simple and always accessible USB connection.

Efficient and patient-friendly.

Enhance your workflow and patient experience with Zen-X DCiS. The right tool to get the most out of your time.

Experience the convenience of our Wire Free system: no cables to hinder movements; no stress for the patient thanks to the sensor low thickness and rounded corners; accessories to facilitate positioning while minimising discomfort for the patient.
Since the cable is the part most exposed to wear, the Wire Free system also guarantees a longer sensor life.
Zen-X DCiS, integrating direct conversion technology, has no internal easily breakable components and is therefore more resistant to falls and impacts.
Simply the best.

- Compact and minimally invasive
- Cordless
- Easy positioning

DESIGNED TO LAST

Stronger outer shell and internal components for increased impact and compression resistance and a longer life. No fragile components such as the scintillator which is required in sensors that do not integrate DC technology.

COMFORT

Non-invasive sensor thanks to its extremely low thickness and smooth lines without edges.
Zen-X DCiS puts patient health and care first.

POSITIONING

Alignment system created specifically for Zen-X DCiS that does not add extra bulk to the sensor profile and guarantees superior patient comfort.
Easy to position, it allows the X-ray unit to be brought closer to the patient face exposing only the required areas - thanks to a special alignment ring and positioners designed to adapt perfectly to specific diagnostic needs.

The ultimate 2D imaging.

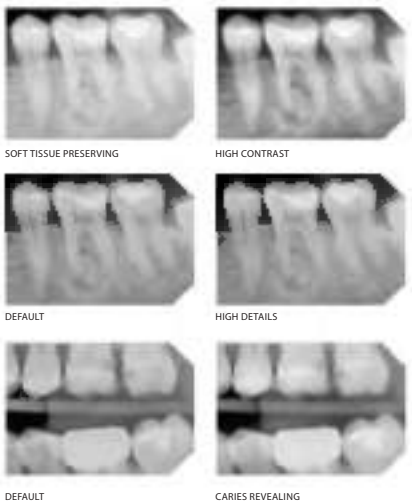
First wireless direct conversion sensor.
Zen-X DCiS incorporates all the best high-tech imaging technologies.

Zen-X DCiS integrates direct conversion technology, which does not require the conversion of X-rays into visible light.
Fewer steps, fewer components, smaller footprint and above all - perfect image quality.
Once scanning is complete, iRYS will take care of everything.
MyRay's native software features advanced filters to further enhance the image or emphasize details.
Less is more.

- Fewer required steps
- More sharpness
- Better contrast
- Minimal bulk
- Long life

MultiMAGE

This original MyRay function is designed to meet the real needs of dentists like you.
By using proprietary PiE (Powerful image Enhancer) algorithms optimised for the Zen-X DCiS sensor, this function lets dentists simultaneously capture, display and share a set of up to 5 images. Each image is the result of a different type of improvement designed to highlight various anatomical details with different levels of sharpness and contrast, ensuring dentists can diagnose better.



PiE (Powerful Image Enhancer) FILTERS

New set of filters to highlight all the details necessary for different clinical requirements.

Soft tissue preserving: keeps areas at risk of image darkening unaltered to highlight soft tissues.

High contrast: enhances the contrast, if the image is low in contrast due to anatomical reasons or X-ray parameters.

Default: balances noise, contrast and sharpness.

High details: emphasizes image details.

Caries revealing: improves the contrast level of bitewing images allowing easier identification of interproximal caries.

IN-DEPTH DETAIL

The best of 2D X-ray imaging: Zen-X DCiS direct conversion sensor produces sharper images with better contrast than a conventional sensor.

THE BENEFITS OF DIRECT CONVERSION

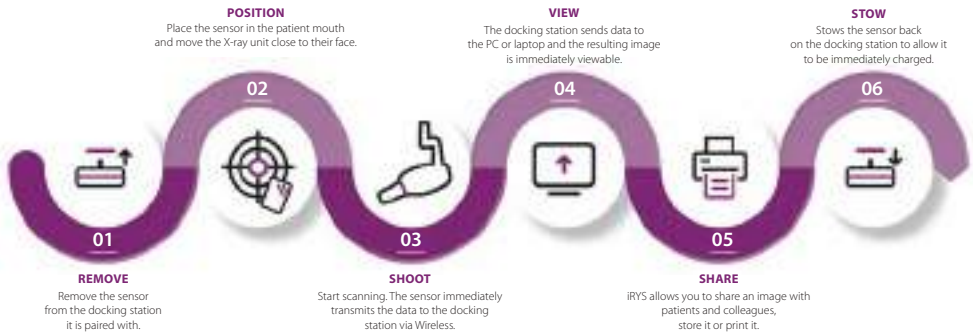
With a standard sensor X-rays have to be converted into visible light, using a scintillator, because the sensor reacts to light like a photographic film. Zen-X DCiS, on the other hand, is a direct conversion sensor: it receives and processes X-rays directly. Fewer steps mean a lower risk of diagnostic information loss, sharper and well-contrasted images, even at low doses.

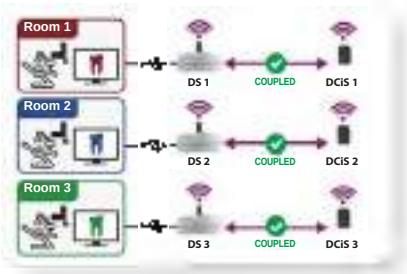
Your best workflow solution.

Choose the configuration that best suits your needs.
The sensor adapts to your work, not the other way around.

Zen-X DCiS streamlines your workflow and integrates seamlessly into your clinic.
Through Wireless technology, the sensor interacts with the docking station wirelessly and with minimum power consumption with no impact on quality.
In just a few seconds the image is available on the monitor to be shared with the patient and colleagues.
With iRYS you can browse through images, calibrate them or use pre-settable filters.
The software allows pairing with the dentition chart and has predefined layouts to quickly store and view the X-rays.
A preferred combination of sensors and docking station can also be chosen.
Zen-X DCiS is made to look like you!
It fits!

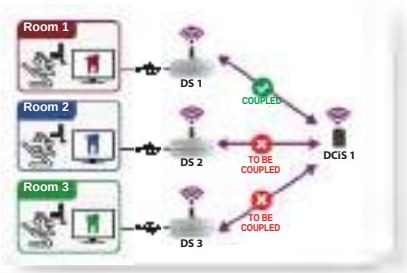
- Images available immediately
- Several possible configurations
- Energy saving





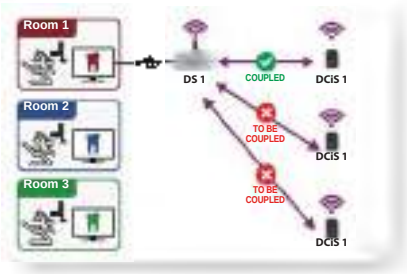
WORKFLOW A

1 to 1 pairing.
Each sensor interacts with its own docking station. Simultaneous data transmission is also possible.



WORKFLOW B

1 to many pairing.
A single sensor interacts with multiple docking stations. The sensor can interact with only one docking station at a time.



WORKFLOW C

Many to 1 pairing.
Several sensors interact with a single docking station. Transmission can occur from only one sensor at a time.

Optional accessories.

Add the alignment system designed for Zen-X DCiS.
Choose where to keep the docking station.
Optimized ergonomics and maximum user-friendliness.

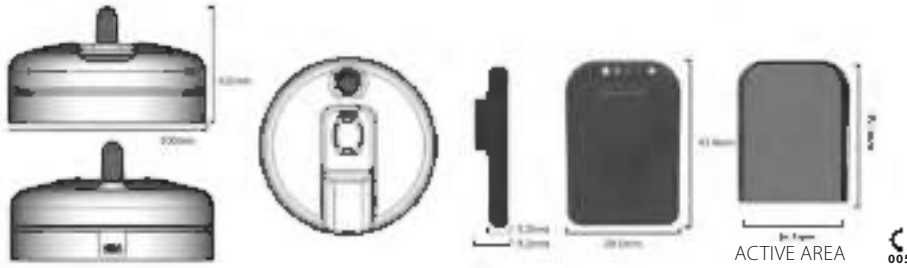
Alignment system that facilitates positioning.
No extra bulk for the sensor profile which is therefore minimally invasive in the patient's mouth for superior comfort.
The system allows the X-ray unit to be brought closer to the patient's face, focussing the X-ray emission only on the area to be examined.
A special kit allows you to install the docking station on the wall, freeing up workspace.
It's that easy!

- Minimally invasive in the mouth
- Easy positioning
- Optimal alignment
- Wall fixing of the docking station

Technical specifications.

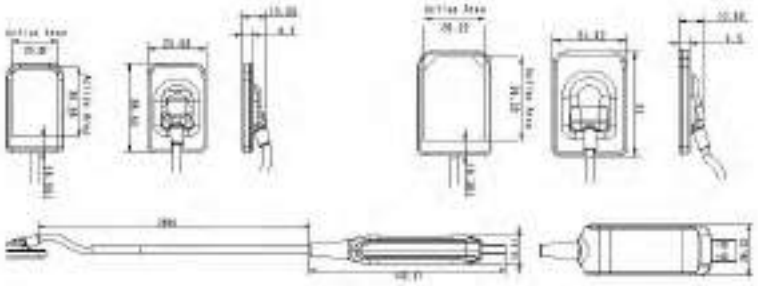
DIMENSIONS	
Sensor size	2
Sensor footprint	43.4 mm (height) x 29.5 mm(width)
Sensor thickness	5.2 mm (9.2 mm considering the battery housing hub)
Active area	35.1 mm x 24.7 mm
Docking station	100 mm (diameter) x 62 mm (height)
USB lead length	2 m (supplied to connect docking station to PC/laptop)
IMAGE ACQUISITION	
Pixel matrix	1350 x 950 (1,282,500 pixel)
Detector	Single-crystal direct-conversion silicon / CMOS
MTF (Modulation Transfer Function)	> 70% @ 5 lp/mm, > 40% @10 lp/mm
Exposure parameters	0.1-0.5 s, 60-70 kV, 6/8 mA, 20 cm (8") cone
Wireless image transmission time	Less than 10 s under optimal working conditions
SENSOR TECHNICAL SPECIFICATIONS	
Internal battery	Rechargeable lithium ion (capacity 19 mAH)
Degree of protection	IP 67 (Guaranteed against liquid or dust infiltration)
Integrated RAM memory	4 MB (maximum 1 preservable image)
Image transmission technology	Wireless
Wireless operating distance	Up to 2.5 m from docking station
Compatibility with X-ray generators	Wall-mounted or cart (both AC and DC): 2-10 mA and 60-70 kV. Portable: 2-10 mA and 60-70 kV.
Complete recharge time	3.5 h (allows acquisition of 140* consecutive images, with a 40 s pause between two examinations)
Minimum advisable recharge time	15 minutes (allows acquisition of 19* consecutive images, with a 40 s pause between two examinations)
SOFTWARE	
Acquisition software (for PC)	iCapture with dedicated filters for third party software
Image management software (for PC)	iRYS (complies with ISDP®10003:2020 as per EN ISO/IEC17065:2012 certificate number 2019003109-2)
Supported protocols	DICOM 3.0, TWAIN, VDDS
DICOM nodes	IHE compliant (Print; Storage Commitment, SR document; WorkList; MPPS; Query/Retrieve)
MINIMUM SYSTEM REQUISITES	
Supported operating systems	Microsoft® Windows® 10 Pro 64 bit - Windows® 11 Pro 64 bit
Processor	6th generation Intel i5 or equivalent
Hard disk	Intel Core i3, 10th generation (or higher)
RAM	4 GB (8 GB or superior recommended)
Graphics card	3D VideoCard 1 GB RAM (DirectX 11 / OpenCL v1.2 or later support)
Display	1920x1080 pixel 24bit RGB Full HD
COMMUNICATION INTERFACES	
Docking station connection port	USB-C
PC/laptop connection port	USB-A
Power supply	+5V ± 10%
Input power	2,5 W

* Values susceptible to a reduction in performance due to effective battery life (the battery must only be replaced by qualified technicians).



Technical specifications.

INTRAORAL SENSORS	Size 1	Size 2
External dimensions (mm)	38.5 x 25	45 x 31.6
Thickness (mm)	4.5	4.5
Pixel matrix	1500 x 1000	1800 x 1300
Pixel size (µm)	20	20
Max. resolution (lp/mm)	25	25
Grey level depth	16-bit acquisition - max 65,535 grey levels	
Sensor technology	APS CMOS	
Scintillator technology	Direct deposition CsI (Caesium Iodide)	
Case protection rating	IP68 (Guaranteed against liquid or dust infiltration)	
Compatibility with X-ray generators	Any AC or DC technology X-ray generator with values in the 60 – 70 kV and 1-8 mA range and precision control of exposure times	
Connectivity	Direct USB to PC	
Acquisition software (for PC)	iCapture with dedicated Zen-X E image filters for third-party software and for automatic saving of RX DC exposure parameters on PC	
Image management software (for PC)	iRYS (complies with ISDP©10003:2020 as per EN ISO/IEC17065:2012 certificate number 2019003109-2)	
Supported protocols	DICOM 3.0, TWAIN, VDDS	
DICOM Node Connectivity	IHE compliant (Print; Storage Commitment, SR document; WorkList; MPPS; Query/Retrieve)	
X-ray log	iRYS feature to associate exposure parameters with the X-ray images of each ex-amination	
Minimum system requisites		
Supported operating systems	Microsoft® Windows® 10, 11 (Professional 64 bit)	
Processor	Intel Core i3 or later	
RAM	4 GB (8 GB recommended)	
Graphics card	Discrete 3D Video Card or integrated GPU	
Display settings	1280 x 1024; 1344 x 768 or greater, 16 million colours	
Port	USB 2.0 or later versions	
Power supply	Use a power supply with suitable power for the video board in use	



CE 0051

myray new comfort in digital imaging

www.my-ray.com

BU Medical Equipment
Plant - Via Bicocca, 14/c - 40026 Imola - Bo (Italy) tel. +39 0542 653441 - fax +39 0542 653555
Headquarters - Cefla s.c. Via Selice Provinciale, 23/a - 40026 Imola - Bo (Italy) tel. +39 0542 653111 - fax +39 0542 653344
Cefla Medical North America
6125 Harris Technology Blvd. - Charlotte, NC 28269 - Ph: 704 598 0020 - www.ceflamedicalna.com - info@cefladental.com

Zen-X E

Direct USB "Series E" intraoral sensor

myray new comfort in digital imaging

Zen-X E.

The Enhanced sensor that takes performance in your practice to the next level. High resolution, extreme user-friendliness and maximum patient comfort.

Optimise work with the new Zen-X E intraoral sensor.
Thin and comfortable for the patient, easy to handle for dentists and assistants.
High quality images - even at low X-ray doses - ensure clear diagnosis and effective treatment.
Discover the features that allow Zen-X E to deliver an improved patient experience and smoother workflows.
So tiny. So great.

- Ergonomics and comfort
- Easy positioning
- Highly detailed images
- Liquid-proof

Light and compact **IP68** certified for protection against liquids and dust.

HD QUALITY
More sensitive than the other wired sensors in the range, Zen-X E guarantees extremely detailed images.

ERGONOMICS
Rounded corners and a thin profile ensure comfortable insertion in the oral cavity.

PLUG&PLAY
Work anywhere: the 3-meter long cable maximises freedom of movement and provides immediate USB connection.

Designed to streamline work.

Zen-X E optimises ergonomics, improving both the patient experience and examination accuracy.

Just 4.5 mm thick and featuring rounded corners, Zen-X E minimizes patient discomfort and streamlines workflows. Available in two sizes, both with an extensive active area to maximise the view with a single exposure.
The Plug & Play system allows immediate display of the image on a PC or laptop, minimising appointment times.
With Zen-X E you can count on accurate X-ray imaging for a wide range of exams, with special positioners ensuring precise framing.
With clear advantages for both the patients and the practice.
This is the way.

- Extensive active area
- Flexibility
- Reliability
- Plug & Play

LOW BULK, LARGE ACTIVE AREA

Available in 2 sizes, Zen-X E optimizes sensor bulk for both adult and child patients thanks to an active area that almost reaches the edge.
The sensor adapts to the anatomy of the oral cavity, reconciling the dual need for comfort and a clear diagnosis, with special positioners maximising exam accuracy.

PROTECTED

The IP68 certified Zen-X E provides resistance to liquids and dust above the market average.
An aluminium layer protects it from knocks and accidental falls, as does the special design of the internal layers that convert the X-ray beam into the final image.

EXTRA-LONG PLUG & PLAY CABLE

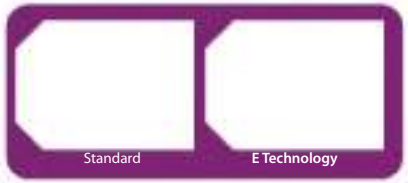
The 3 metre long cable ensures excellent freedom of movement. Take Zen-X E anywhere, take advantage of direct USB connectivity to your PC or laptop.
The on-cable stabilizer reduces energy consumption, keeping the temperature of the sensor in the oral cavity under control.
Furthermore, there's no need to put the device on standby and interrupt workflows.

Multiply opportunities.

Advanced Zen-X E hardware and software boost diagnostic capacity and let you process/browse images with ease.

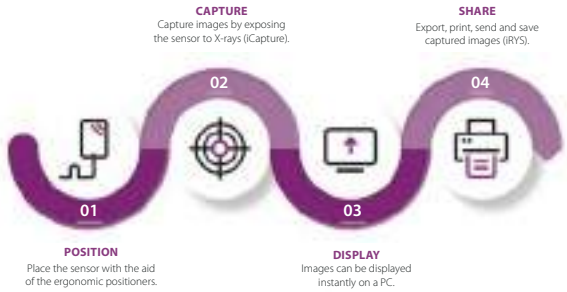
More sensitive than its predecessors, Zen-X E provides - dosage remaining equal - excellent definition, allowing you to see details such as coronal micro-fractures; this outstanding detail is maintained even at low doses.
User-friendly, customisable iCapture software quickly transfers captured images to your computer. Once transfer has been completed, MultIMAGE technology lets you view up to 5 different images with a single scan.
Last but not least, the processing software lets you share X-rays in real time with the patient or colleagues.
Better and better.

- High-sensitivity sensor
- MultIMAGE technology
- PiE (Powerful image Enhancer)
- Proprietary iRYS software



MORE DEFINITION AT LOW DOSE
Low X-ray doses and sharper images ensure a clear diagnosis.

OPTIMAL WORKFLOW
Ergonomic positioners allow optimal placement of the sensor, which is always ready for exposure.
Following acquisition, images are loaded directly onto the PC. They can then be saved, consulted and shared via iCapture software (TWAIN), all-in-one iRYS software (DICOM) or with a free image viewer or iPAD app before being printed or sent via e-mail.



PiE (Powerful image Enhancer)
MultIMAGE technology applies proprietary PiE algorithms, optimized for Zen-X E, to capture, display and share sets of (up to 5) images.
Each image highlights a different anatomical detail by modulating sharpness and contrast.

New set of filters to highlight all the details necessary for different clinical requirements.

Natural image: pure, thanks to the **RAW filter** which does not apply any processing-related alterations.

Smooth image: preserves areas at risk of darkening thanks to the **Soft Tissues Preserving filter** that enhances low-density tissues.

Balanced image: perfect for most applications, thanks to the **Default filter** that balances contrast and noise.

Sharp images: small carious lesions are more visible with the **High Details filter** that optimises contrast to emphasise image details.

iRYS
The sensor interfaces smoothly with the iRYS software installed on the PC. This provides rapid image browsing, calibration, pre-settable filters, association with the dentition chart and automatic predefined layouts that let dentists consult an individual patient's X-rays quickly.

Multiple Images for every level of detail.

Latest-generation Zen-X image processing software aims to improve diagnostics. With outstanding image resolution and a user-friendly interface, Zen-X makes image reading easier to meet your needs more effectively.

Equipped with iRYS software, Zen-X now offers the most advanced, versatile image processing filter pre-setting on the market. Users can select which filters to use from among the pre-set families and define any further customisations according to their visual or diagnostic preferences.
All filters are accessible from the iRYS image display window, where users can decide which ones to apply automatically.
This provides individual dentists with a customised comfort zone for every appointment.

MultiMAGE
This original MyRay function is designed to meet the real needs of dentists like you. By using proprietary PiE (Powerful image Enhancer) algorithms optimised for the Zen-X sensor, this function lets dentists simultaneously capture, display and share a set of up to 5 images. Each image is the result of a different type of improvement designed to highlight various anatomical details with different levels of sharpness and contrast, ensuring dentists can diagnose better.

Technical specifications.

SENSOR: X-VS	SIZE 1 - REGULAR	SIZE 2 - LARGE
External dimensions (mm)	38.9 x 24.9	41.9 x 30.4
Thickness (mm)	5.3	5.7
Pixel matrix	1500 x 1000	1700 x 1300
Pixel size (µm)	20	20
Maximum resolution (lp/mm)	25	25
Grey levels depth	14-bit acquisition - 16384 maximum grey levels	
Scintillator technology	CsI (Cesium Iodide) with micro-columnar structure	
Direct exposure protection	FOP (Fibre Optics Plate)	
Protection rating	IP 67 (Guaranteed against liquid or dust infiltra-tion)	
Compatibility with X-ray generators	Any AC or DC technology X-ray generator with kV values in the 60 – 70 kV range and precision con-trol of exposure times	
Connectivity	Direct USB to PC	
Image capture software (for PC)	iCapture with dedicated filters for third party soft-ware	
Image management software (for PC)	iRYS (as per ISDP©10003:2020 in compliance with EN ISO/IEC17065:2012 - certificate number 2019003109-2) and iPad iRYS viewer app (free)	
Supported protocols	DICOM 3.0, TWAIN, VDDS	
DICOM nodes	IHE compliant (Print; Storage Commitment, SR document; WorkList; MPPS; Query/Retrieve)	
Minimum system requisites		
Supported operating systems	Microsoft® Windows® 10 Professional 64 bit	
Display settings	1280x1024; 1344 x768 or greater, 16 million col-ours	
Port	USB 2.0 or subsequent	
Power supply	5 V DC, 500 mA (via USB)	

CE
0051

www.my-ray.com

BU Medical Equipment
Plant - Via Bicocca, 14/c - 40026 Imola - Bo (Italy) tel. +39 0542 653441 - fax +39 0542 653555
Headquarters - Cefla s.c. Via Selice Provinciale, 23/a - 40026 Imola - Bo (Italy) tel. +39 0542 653111 - fax +39 0542 653344
Cefla North America, Inc. 6125 Harris Technology Blvd. Charlotte, NC 28269 - U.S.A. Toll Free: (+1) 800.416.3078 Fax: (+1) 704.631.4609

09/2023 MZENGB201500

Zen-X
HD direct USB X-ray Sensor

ERGONOMIC DESIGN
Thin profile,
rounded corners
and flexible lead.
Maximum active area.

HD SENSOR
Multi-layer sensor
(CsI + FOP + CMOS),
high definition technology.

WATERPROOF

RELIABLE AND HARD-WEARING
Resistant to dust and liquids,
IP 67 certified.

DIRECT USB
USB direct plug-and-play
connection to display
Real-Time images.

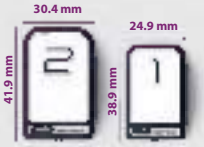
Real time diagnostics.

High definition, immediacy, reliability and ergonomics.
Zen-X offers all the advantages of real-time digital technology to obtain and share high quality images with ease.

Capture and consult the best high definition intraoral images immediately. Zen-X saves time and make communication with patients more effective thanks to automatic acquisition and USB direct plug-and-play connection.
Available in two sizes, it features ergonomic design with smoothed edges, rounded corners and a flexible lead, maximising both active area and positioning comfort.
Made of extremely hard-wearing materials of the highest quality, it is compatible with all intraoral X-ray generators.
The precision of modern technology.

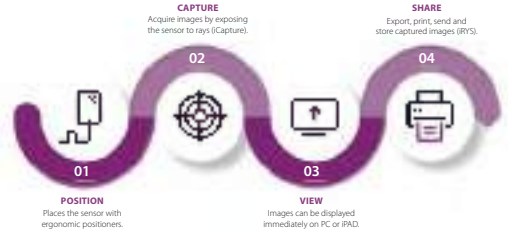
- Easy, fast, portable, real-time
- Maximum active area with optimal ergonomics
- Resistant to impact, dust and liquids
- Plug-and-play with iCapture software
- All-in-one iRYS software - Free Viewer and iPAD app

LATEST-GENERATION HD MULTI-LAYER SENSOR
The Cesium Iodide (CsI) scintillator intercepts the X-ray beam and converts it into visible light while preserving image quality.
The layer of fibre optics (Fibre Optics Plate) collimates the radiation onto the sensor and protects it against direct X-ray penetration.
The high definition acquisition device with 20 µm cells (HD CMOS) converts the light into a digital image which is then processed by the on-board electronics, ready to be transferred to a USB port.



FOR ALL YOUR NEEDS
Whatever your task, Zen-X will help you complete it.
Available in two sizes, it adapts to all types of examination.

IRYS, EASY COMMUNICATION
The sensor integrates perfectly with the iRYS software installed on the PC and the 2D image viewer for iPAD; iRYS is the all-in-one solution for 2D and 3D diagnostics, communication and intraoral imaging management. Provides simple yet comprehensive processing tools: fast browsing of captured images, calibration and pre-settable filters, association with the dentition chart and automatic pre-definable layouts with which to save and consult patient X-rays relative to different treatment sessions.



OPTIMAL WORKFLOW
Ergonomic positioners allow optimal placement of the sensor, which is always ready for exposure.
Following acquisition, images are loaded directly onto the PC. They can then be saved, consulted and shared via iCapture software (TWAIN), all-in-one iRYS software (DICOM) or with a free image viewer or iPAD app before being printed or sent via e-mail.