stomdevice

myray
new comfort
in digital imaging

www.my-ray.com

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According to the regulations in force, some products and/or features may have different availability and characteristics in areas outside of the European Union. Please contact your local distributor.

Hyperion X5

Suspended imaging system



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Hyperion X5.
Easy 3D/2D diagnostics.

The first suspended 3D/2D system, the world's smallest, now available for your surgery. Innovative design, flexibility and user-friendliness. Out of our experience comes the best solution for every dentist.

Hyperion X5, the only suspended imaging system, easy to install and use, can be mounted on any wall suitable for housing an intraoral X-ray system. Quick and easy to use at every stage of 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.
A new 3D/2D Imaging Experience.

WALL-MOUNTED

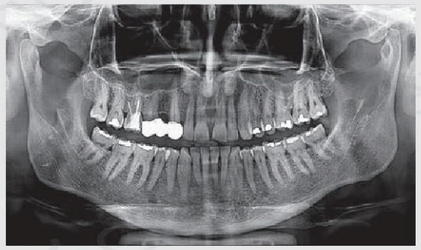
Light and compact like an intraoral X-ray unit, offering an extensive range of possibilities. All you need is a wall.





reddot award 2015
winner

2D Focus-Free System



MRT
(Patented)

One-click PAN examination with MRT (Morphology Recognition Technology) and automatic best focussing selection system.

3D MultiFOV System



Ultra-high resolution CBCT examination (80µm) with the possibility of making a single scan of the entire dentition (FOV 10x10) or a scan of different, limited portions (MultiFOV) to reduce exposure to the region of interest.

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Built around your needs.

Hyperion X5 is an advanced, fast, simple imaging system that minimises X-ray doses and maximises image quality. Flexible, comprehensive imaging - indispensable these days - that revolutionises the way you work by taking your surgery's diagnostic potential to a whole new level.

Optimal use of space, time and diagnostic procedures is now possible thanks to innovative Hyperion X5 technology. Complete, accurate and fast 3D/2D diagnoses, all in one device, ready for immediate use. Enhanced patient communication through illustration of the necessary treatment directly in your surgery. High quality materials and device simplicity mean maximum, long-lasting reliability.
Improve your day.

- Compact&Light
- Plug&Play
- Setting-free
- Easy to use
- Real-Time Diagnostics
- Mini Budget





FLOOR-MOUNTED VERSION
Installation of the floor-mounted version is equally easy and immediate.

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Versatile diagnostics.

The 3D/2D system offers the best response to your diagnostic needs. Flexible, efficient, fast. Cutting-edge high definition 3D technology and fast-scan 2D MultiPAN. Maximum results with minimum times and 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 the detail of clinical interest. Intelligent collimation, ultra-fast scanning and short emission times ensure patients receive low X-ray exposure.
3D Cone Beam technology generates an infinity of high definition data (80 µm) in a single scan. The MultiFOV feature adapts the X-ray dose and field of view to the patient's specific build and diagnostic needs, from a minimum of 6x6 cm to a maximum of 10x10cm. High precision and low X-ray doses.
Ultimate flexibility.

- Suitable for all diagnostic needs
- Clever collimators
- 3D Cone Beam MultiFOV technology
- MultiPAN system
- Up to 22 2D programmes
- A single 3D/2D-QuickScan sensor



MAXI FLEX

MULTI FOV

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 (10x10cm) to just a small portion (6x6cm). Choose, according to diagnostic requirements, between HD (80µm) or low-dose QuickSCAN (160µm) protocols.

MULTI VISION

MULTI PAN

Advanced 2D image processing system lets users extract and analyse 5 different panoramic images from a single scan. Particularly useful for analysing patients with complex anatomies and/or virtually correcting post-capture patient positioning.

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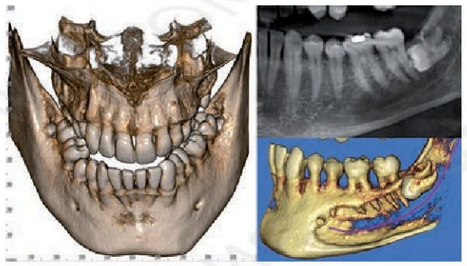
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3D | **Hyperion X5,** 3D/2D imaging.

2D

Empower your vision.

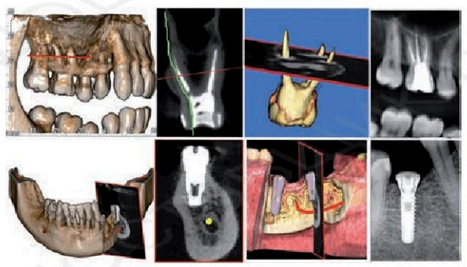
Capture every detail with 3D technology and expand your view into the third dimension. With 3D you can assess all points of diagnostic interest in their anatomic context far more effectively than with traditional panoramic images. Ensure maximum practicality and working benefits with Hyperion X5.



COMPLETE DENTITION (ADULT) IN 3D

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

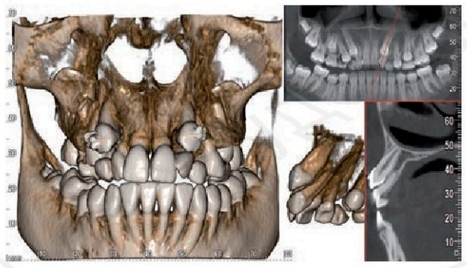
- FOV 10x10cm with details as fine as 80 µm



LOCAL (LOW DOSE) ANALYSIS IN 3D

Diagnostics on the region of interest only, far more in-depth than 2D examinations, for HD endodontic assessments; study of relationship between impacted teeth; post-operation checks with fast scan and doses equivalent to those of a 2D examination.

- MultiFOV – HD and QuickScan



COMPLETE DENTITION (CHILD) IN 3D

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

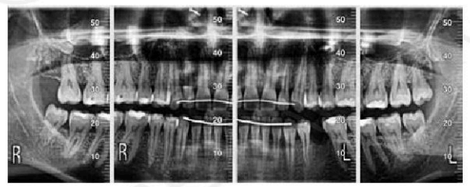
- Limited exposure – Low Dose



ADULT/CHILD PANORAMIC

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

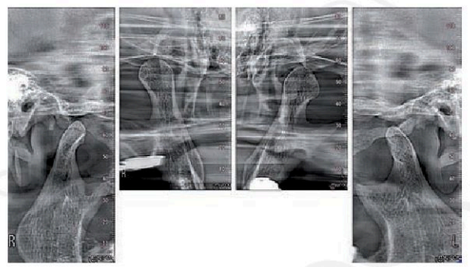
- QuickPAN or standard exposure
- Complete or partial analysis



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, as they are more comfortable and less intrusive.

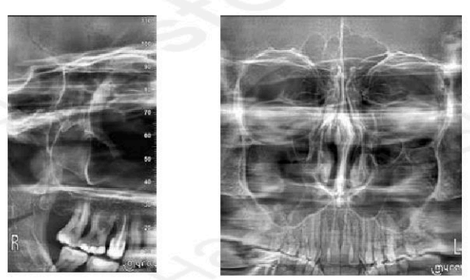
- Increased orthogonality
- Adapted collimation



TEMPOROMANDIBULAR JOINTS

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

- Mouth open or closed
- Sagittal and Coronal



MAXILLARY SINUSES

Characterised by a special image layer that provides X-rays in which the maxillary sinuses are clearly visible.

- Frontal
- Lateral

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Always by your side.

Maximum one-touch performance. Hyperion X5 simplifies your work by allowing extremely fast scans that give real-time images at minimum X-ray doses. Easy for you, comfortable for the patient.





Hyperion X5 offers easy access and a broad visual. 3 laser guides, frontal mirror, up to 5 head contact points and solid metal handles for easy, stable patient positioning. Patient-adapted 3D/2D exposure parameters and X-ray doses with MRT technology. Optimal 2D Focus-Free images and assisted 3D alignment with Scout View function. Remote control via the virtual panel and dedicated Apps for ultra-simple examination control.
Let your work flow.

- 2D Focus-Free
- Stable positioning, made easier by the use of 3 laser guides
- MRT (Morphology Recognition Technology)
- Assisted 3D alignment with Scout View
- Remote Control - Virtual control panel
- Facilitated access (also for patients in wheelchairs)

3D QUICK SCAN 6,4s

2D QUICK SCAN 6,6s



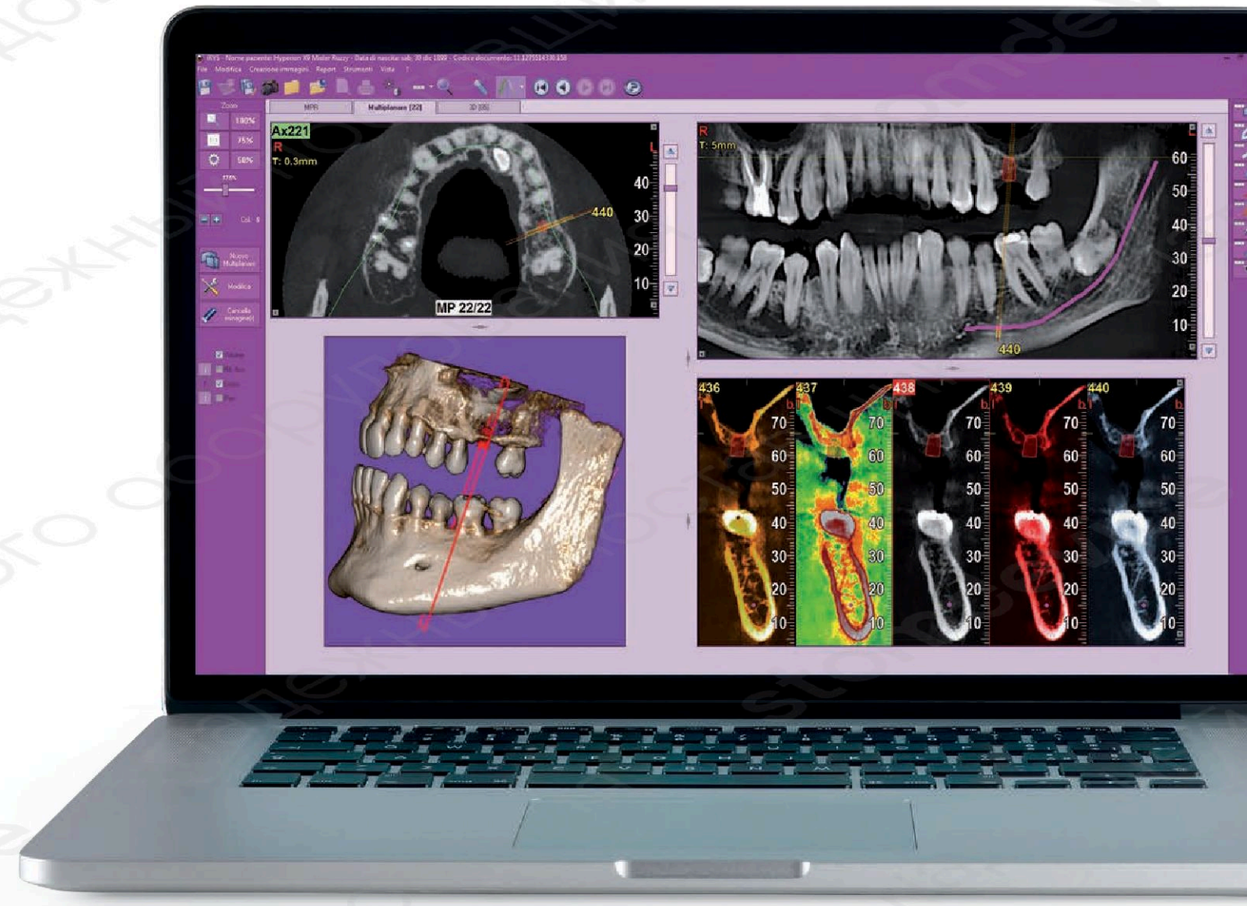
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iRYS, your simple tool.

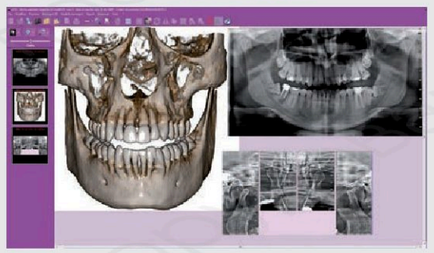
One software for 2D and 3D scans. Everything you need to carry out diagnoses, communicate with the patient and effect the best possible treatment. Optimised images with automatic filters. All this is iRYS.

iRYS is the simple, user-friendly imaging software with advanced functions. 2D PiE and 3D SMART filters provide even sharper images. Multi-layer panoramic images, display of anatomical structures with realistic 3D rendering, assessment of the quality of the bone and surrounding anatomic structures, implant simulation with preloaded libraries. The insertion axis can be modified directly on the panoramic image and the most suitable implant dimensions and/or treatment can be chosen on the basis of the actual amount of bone. Multi-Desktop management allows images to be browsed quickly and shared with patients to engage them in the treatment plan.
Empower your performance.

- Multi-Desktop 3D/2D
- 2D PiE (Panoramic Image Enhancer)
- 3D SMART
  (Streak Metal Artifacts Reduction Technology)
- Implant simulation

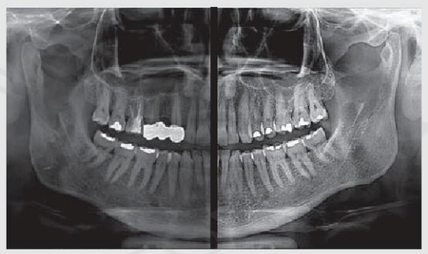


MULTI-DESKTOP 3D/2D



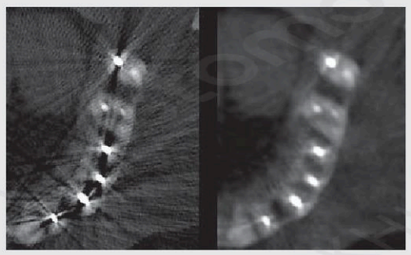
One software to handle 2D and 3D images. The Multi-Desktop system allows rapid browsing between the various 2D to 3D views, with realistic rendering and multiplanar analysis. Everything you need to carry out high quality diagnoses and communicate quickly with the patient.

2D PiE



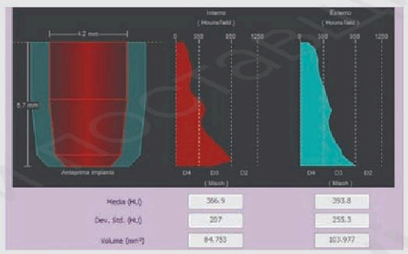
New, advanced 2D PiE (Panoramic Image Enhancer) filters maximise 2D image yield. Automatic, selective optimisation of the display of different anatomical regions. From multiple panoramic to dentition images, every detail is now sharper than ever.

3D SMART



Implants/restorations with amalgam in the patient's mouth can cause shadows and streaks in volumetric images. The intelligent 3D SMART (Streak Metal Artifacts Reduction Technology) function efficiently reduces the typical metal-caused artifacts in 3D images.

IMPLANT SIMULATION



Simple, user-friendly image processing makes selection and positioning of implants contained in preloaded libraries and/or personalised implants easy. Advanced functions allow assessment of bone quality (MISCH scale) inside the implant volume and surrounding anatomical structures.

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View everywhere.

Store, manage and share images with all surgery PCs and tablets thanks to the Ethernet connection, the Apps and the powerful iRYS platform which also interfaces with third party systems.

Images acquired and processed with iRYS are compatible with other surgery management tools or processing/storage software; they can also be printed on a 1:1 scale with multi-page reports or exported to disc with the displayer included. Compatibility with DICOM networks is IHE guaranteed and certified. Find out about the powerful NIP implant planning software. Connect up to prosthetic design and surgical template creation systems with the STL interface.
Free your mind.

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



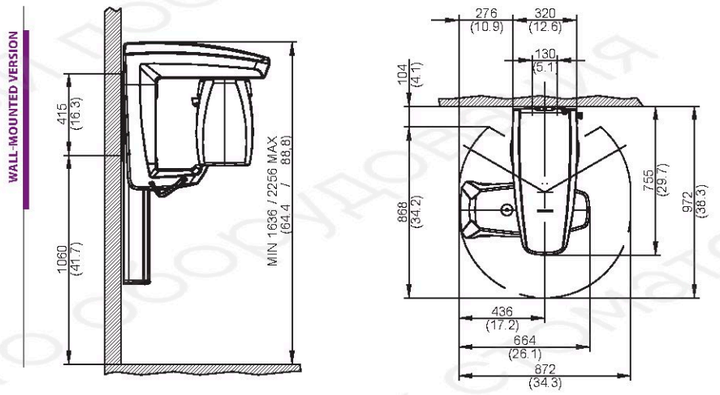
REMOTE CONNECTION

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Technical characteristics.

IMAGES	2D	3D
Type	Adult and child panoramic*, QuickPAN, MultiPAN, "Bitewing"* dentition, PA and LL (right and left) maxillary sinuses, Temporomandibular Joint (2 x LL +2 x PA) open and closed mouth.	Complete study of the 2 dental arches in a single scan for adult and child with reduced collimation; Study of maxillary region with maxillary sinuses; Localised study of region of interest.
Child examination	Yes	Yes
Maximum resolution	from 5 to 7 lp/mm	Voxel 80 µm (minimum section thickness)
Maximum field of view (mm)	280 (length); 150 (height)	102 (diameter); 96 (height)
Reduced fields of view (cm)	6 x 12.5* (Child) 6 x 9* (Dentition bitewing)	10x10 - 10x7 - 10x6 - 8x10 - 8x7 - 8x6 - 6x7 - 6x6
Maximum image dimensions	7.5 MB	720 MB
Magnification	PAN: 1.2 - 1.3	1 to 1
Scan time	PAN 12s (STD.) – 6.6s (Quick Scan)	HiRes 16.8s (Regular) - 9.6s (Quick Scan) STD 11.2s (Regular) - 6.4s (Quick Scan)
Typical effective dose (ICRP 103)	PAN: 5 - 9 µSv	FOV 10x10: 80 µSv (Voxel 80µm - Quick Scan) FOV 6x6: 9 µSv (Voxel 160µm - Quick Scan)
Minimum image display times	RealTime	15 s
Advanced filters	PiE (Panoramic image Enancher)	SMART (Streak Metal Artifact Reduction Technology)
	*Optional vertical collimation on 2D version	

INSTALLATION	SUSPENDED VERSION	FLOOR-MOUNTED COLUMN VERSION
Minimum available work space requirement	872 mm (L) x 972 mm (D)	872 mm (L) x 1101 mm (D)
Package dimensions (L) x (D) x (H) in mm	Box1 930x690x960 + Box2 1460x350x350	Box1 930x690x960 + Box2 1860x355x350
Weight	2D Version: 70 kg (154lb) 3D/2D Version: 76 Kg (168lb)	2D Version: 84 kg (185lb) 3D/2D Version: 90 Kg (199lb)
Accessories	Wall counter-plate	Free standing base
ERGONOMICS		
Patient alignment	3 laser guides	
Patient positioning	4 point 2D version - 5 points 3D/2D version	
Adjustments	Keypad on machine and/or iPhone/Android Phone 2-speed height drive	
Examination selection	Virtual control panel on PC, Windows tablet and/or iPad	
Notes	Easy access for patients in wheelchairs	
CONNECTIVITY		
Connections	LAN / Ethernet	
Software	iRYS	
Supported protocols	DICOM 3.0, TWAIN, VDDS	
DICOM nodes	IHE certification (Print; Storage Commitment; WorkList MPPS; Query Retrieve)	
App	Compatibility with iPad and iPhone	



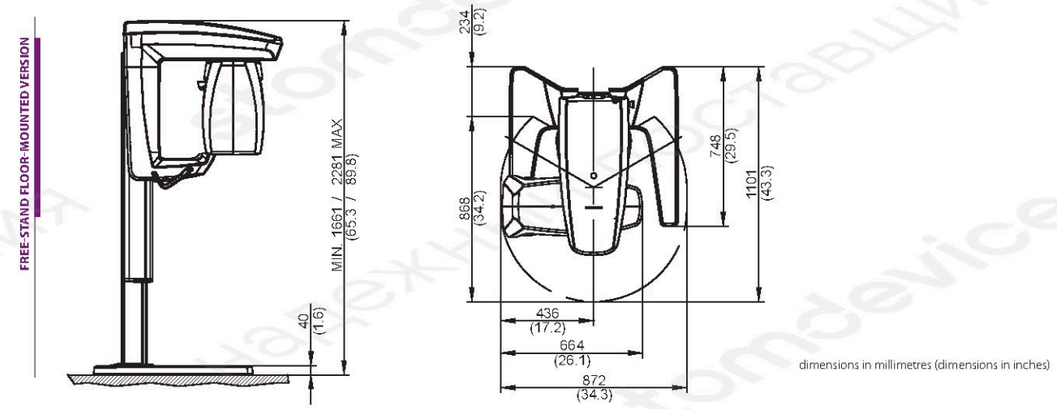
dimensions in millimetres (dimensions in inches)

2D version

X-RAY GENERATOR	
Generator type	Constant potential (DC)
Anode voltage	60 kV – 85 kV (1kV step)
Anode current	4 mA - 15mA
Focal spot	0.5 mm (IEC 60336)
Exposure Control	Automatic. MRT Technology (Morphology Recognition Technology)
Maximum continuous anode input power	42W (1:20 at 85kV/10mA)
Inherent filtration	> 2.5 mm Al eq. (at 85 kV)
DETECTOR	
Detector type	CMOS (CSI)
Dynamic range	14 bit (16383 grey levels)
POWER SUPPLY	
Voltage | Frequency	115 - 240 Vac, ± 10% single-phase | 50/60 Hz ± 2 Hz
Maximum absorbed surge current	20A at 115V; 12A at 240V
Current absorption in standby mode	Maximum 0.5 A (240V);1A (115V)
Notes	Automatic adaptation for voltage and frequency

3D/2D version

X-RAY GENERATOR	
Generator type	Constant potential (DC)
Anode voltage	60 kV – 85 kV (1kV step); 90 kV (Pulsed mode)
Anode current	4 mA - 15mA
Focal spot	0.6 mm (IEC 60336)
Exposure Control	Automatic. MRT Technology (Morphology Recognition Technology)
Maximum continuous anode input power	42W (1:20 at 85kV/10mA)
Inherent filtration	6 mm Al eq. (a 90 kV)
DETECTOR	
Detector type	Amorphous Silicon (CSI)
Dynamic range	16 bit (65535 grey levels)
POWER SUPPLY	
Voltage | Frequency	115 - 240 Vac, ± 10% | 50/60 Hz ± 2 Hz
Maximum absorbed surge current	20A at 115V; 12A at 240V
Current absorption in standby mode	Maximum 0.5 A (240V);1A (115V)
Notes	Automatic adaptation for voltage and frequency



dimensions in millimetres (dimensions in inches)

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MyRay, just right for you.

Leading European company for a full range of dental imaging solutions. For all dental practices.



RXDC
X-ray unit with HyperSphere technology.



RXDC
X-ray unit with eXTend technology.



RXDC
High frequency X-ray unit.



Hyperion X9
The extraoral 3-in-1 (3D, PAN, CEPH) imaging system suited to every clinic.



Hyperion X5
The compact and simple solution in the digital field of dental panoramic imaging.



X-pod
Wireless diagnostics within everyone's reach, fitted with a touch-sensitive display.



Zen-X
Direct USB HD intraoral sensor.



Hy-Scan
Phosphor Plate scanner.



iRYS
Best software for your 2D and 3D clinical needs.



C-U2
High Definition (HD) videocamera with the fastest communication in the world.

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