







new life radiology

Opera

by new life radiology

 La nostra nuova OPERA, il tuo nuovo PANORAMA
 Our new OPERA, your new PANORAMA



 Disponibile in vari colori
 Available in different colors



Opera

Opera comprende una vasta gamma di dispositivi di imaging digitale che, utilizzando tecnologie all'avanguardia, produce e gestisce immagini bidimensionali e tridimensionali. **Opera** è uno strumento innovativo a supporto dei medici nel prendere decisioni sulla base di una diagnostica accurata e delle migliori terapie.

- Linea compatta e classica
- Design italiano
- Facile da installare
- Compatibilità di rete
- Compatibilità DICOM
- Sistema digitale
- Display grafico (touch)
- Facile posizionamento del paziente

Opera ha molteplici campi di applicazione: oltre alle applicazioni progettate esclusivamente per Implantologia o Endodonzia, aiuta nella diagnosi di patologie legate alla Parodontologia, Ortodonzia e chirurgia maxillo-facciale:

- Diagnosi dei disturbi dell'ATM
- Una valutazione dettagliata della morfologia ossea
- Diagnosi di patologie infettive
- Analisi della frattura maxillo-facciale
- Rilevamento di anomalie dentali
- Esplorazione dei seni mascellari
- Definizione del protocollo per l'estrazione di denti esclusi

Opera comprises a wide range of digital imaging devices that using state-of-the-art technology produces and manages two and three-dimensional images. **Opera** is an innovative tool to support doctors making decisions on accurate diagnostics and best therapies.

- Compact and classic line
- Italian design
- Easy to install
- Networking capability
- DICOM compatibility
- Digital system
- Graphic display (touch)
- Easy patient positioning

Opera has multiple fields of application in addition to the applications designed exclusively for Implantology or Endodontics, it helps in the diagnosis of pathologies related to Periodontology, Orthodontics and maxillofacial surgery:

- Diagnosis of TMJ disorders
- A detailed evaluation of bone morphology
- Diagnosis of infectious pathologies
- Maxillofacial fracture analysis
- Detection of dental anomalies
- Exploration of the maxillary sinuses
- Definition of the protocol for the extraction of excluded teeth

La suite di imaging **Archimed** è un software completo e integrato per una navigazione intuitiva con diverse funzioni avanzate per scansionare, visualizzare, filtrare e ottenere migliaia di immagini ad alta definizione per una diagnosi più accurata.

- Il software Archimed è progettato per gestire le immagini con tutti i dispositivi **New Life Radiology**
- Compatibilità DICOM
- Funzione bridge per connettersi ad altri software di gestione dentale
- Sistema multiplatforma

Archimed imaging suite is a complete and integrated software for intuitive navigation with several advanced features to scan, display, filter and obtain thousands of high definition images for more accurate diagnosis.

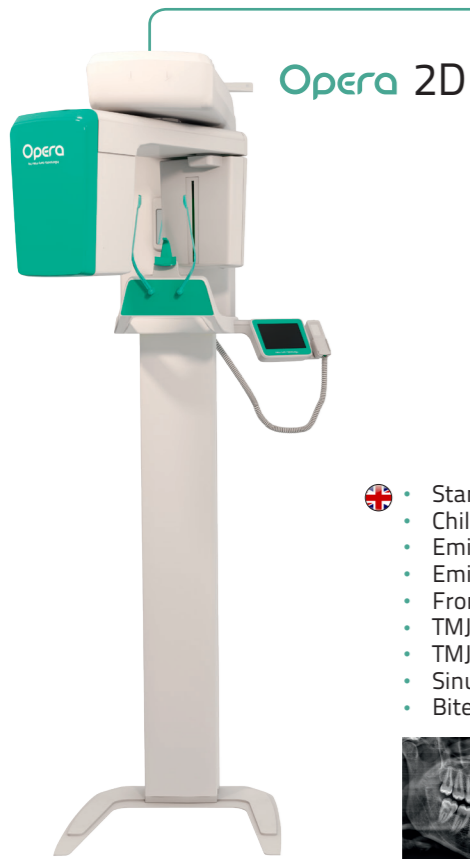
- Archimed software is designed to manage images with all **New Life Radiology** devices
- DICOM compatibility
- Bridge function to connect to other dental management software
- Multiplatform system

Xelis Dental combinato con il software Archimed, è uno strumento essenziale per la pianificazione implantare ed il follow-up post-procedura. Xelis mostra immagini 3D ad alta precisione e fornisce funzionalità avanzate come la simulazione dell'impianto, il disegno del canale e la valutazione della densità ossea. La versione Advanced offre:

- Esportazione in formato STL
- Stitching
- Esportazione di esami 3D
- Dicom Print

Xelis Dental combined with Archimed software, is an essential tool for implant planning and post-procedure follow-up. Xelis shows high precision 3D images and provides advanced features such as Implant Simulation, Canal Draw, and Bone Density assessment. The advanced version offer:

- STL format export
- Stitching
- 3D exam export
- Dicom Print



Opera 2D

- Standard Panoramic
- Child Panoramic
- Emi-Panoramic Right
- Emi-Panoramic Left
- Frontal Dentition
- TMJ closed mouth
- TMJ open mouth
- Sinus
- Bitewing (optional)



Disponibile in 3 versioni:

- 2D
- 2D Upgradable (aggiungendo la modalità CEPH)
- 2D CEPH

Available in three versions:

- 2D
- 2D Upgradable (adding the Ceph modality)
- 2D CEPH



Opera 3D

Semplifica il posizionamento dell'impianto con una rapida misurazione del volume e valutazione della densità ossea.

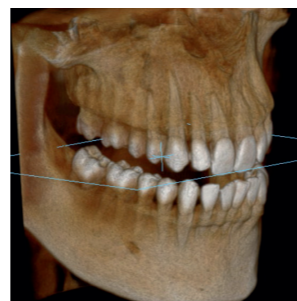
Aumenta il successo del processo di osteointegrazione che dipende principalmente dalla qualità e quantità dell'osso disponibile.

Ricostruisce le immagini 2D dal volume

Simplify the implant positioning with a quick volume measurement and bone density evaluation.

Increase the success of the osseointegration process that mainly depends on the quality and quantity of the available bone.

Reconstructs 2D images from the volume



Disponibile in 3 versioni:

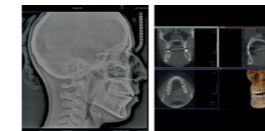
- Only 3D
- 3D/2D
- 3D/2D CEPH

Available in three versions:

- Only 3D
- 3D/2D
- 3D/2D CEPH



Opera 3D CEPH



Opera utilizza tecnologie avanzate per la ricostruzione dell'immagine:

- Sensori CMOS
- Radiazione pulsata
- Field of View 9 x 9 / 11x11/6x11/5x5 (single or MULTIFOV)
- 65-141 µm voxel size
- 100 µm pixel size
- MAR (Metal Artefact Reduction)

Opzione **CEPH** disponibile in versione DR. Cattura le immagini in 200 ms, riducendo il tempo di esposizione ed il rischio d'immagini sfuocate utilizzando la Tecnologia Cefalometrica Single Shot DR.

DFO: DENTAL - FACIAL - ORTHOPEDICS (OPTIONAL) Software for orthodontic tracing and cephalometric analysis.

- Differential Analysis
- Orthodontic Analysis
- Images stored in DICOM format
- Interactive Tutor
- Layer-based Analysis

Tecnologia CBCT (Cone beam computed tomography) che combina una risoluzione spaziale di alta qualità e una sostanziale riduzione della dose di raggi X. Questo sistema 3-in-1 offre una vasta gamma di opzioni per soddisfare qualsiasi esigenza clinica.

Opera 3D CEPH integra immagini 3D, modalità cefalometrica digitale ed immagini bidimensionali (2D) che consentono:

- Processo decisionale clinico più rapido
- Pianificazione affidabile dei trattamenti
- Focus sull'area di interesse
- Controllo della dose emessa

CBCT technology that combines a high-quality spatial resolution and a substantial reduction in the dose of X-rays. This 3 in 1 system offers a wide range of options to meet any clinical need.

Opera 3D CEPH integrates 3D imaging, digital cephalometric modality and two-dimensional images (2D) that enables:

- Faster clinical decision-making
- Reliable treatments planning
- Focus on the area of interest
- Control of the emitted dose

Opera uses advanced technology for image reconstruction:

- CMOS sensors
- Pulsed radiation
- Field of View 9 x 9 / 11x11/6x11/5x5 (single or MULTIFOV)
- 65-141 µm voxel size
- 100 µm pixel size
- MAR (Metal Artefact Reduction)

CEPH option available in DR version. Capture images in 200 ms reducing exposure time and risk of blurred images using the Single-shot DR Cephalometric Technology.

CEPH FUNCTION






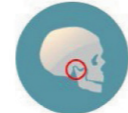









- 24x30 cm PA, LL cephalograms
- Carpus images



OPERA 2D - TECHNICAL DATA

		2D	CEPH DR
X-RAY GENERATOR	Type	Dentizione, TMJ R, TMJ L	
	Operative Mode	Direct	
	Tube Voltage	61-85 KvP	
	Anode Current	5-10 mA	
	Focal Spot	0.5 mm	
DETECTOR	Type	CMOS Detector	One Shot, Digital CMOS Sensor
	Area in mm	150x7	300x240
	Pixel Size	100 µm	125 µm
	Number of Pixel	1500x68	2448x2048
	Scintillator	CsI	
ACQUISITION	Exposure Time	4.4-15.5 s	200-500 ms with Immediate scanning
PROGRAMS	Standard	Adult/Child Standard Panoramic Adult/Child Hemi Panoramic Frontal Dentition TMJ closed/open mouth 2D Sinus	LL CEPH 30x24 AP CEPH Carpus images
	Optional 2D Exams	Reduced Dose Improved Orthogonality Right Bitewing	Left Bitewing Right and Left Bitewing
DIMENSIONS	Height (cm)	223.5	
	Weight (Kg)	110	25
SOFTWARE	Acquisition	Archimed Multiuser	
	Optional	DICOM 3.0-Print only DICOM 3.0 - Full (Base, CD, Worklist, Print) DFO for Cephalometric Analysis	
	Image Format	JPEG, BMP, PNG, TIFF, DCM	




















EXAMS

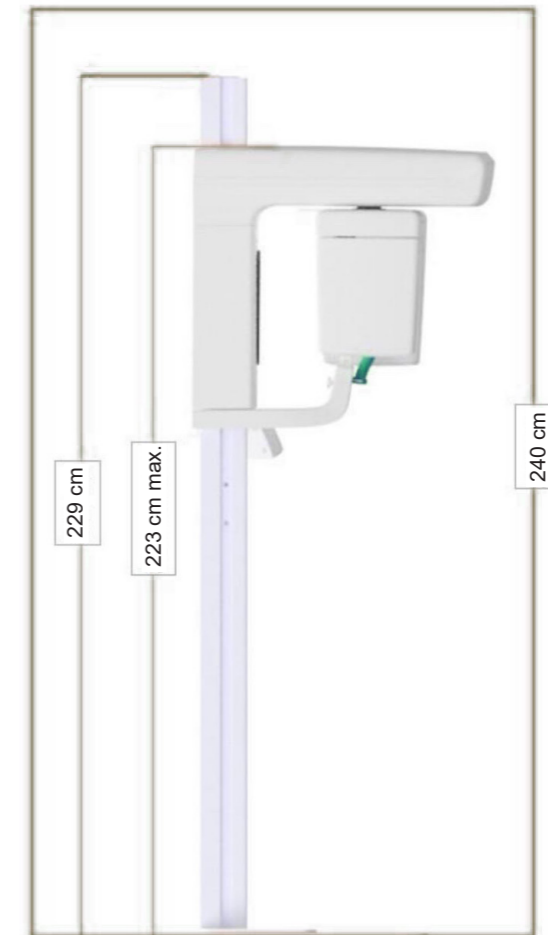
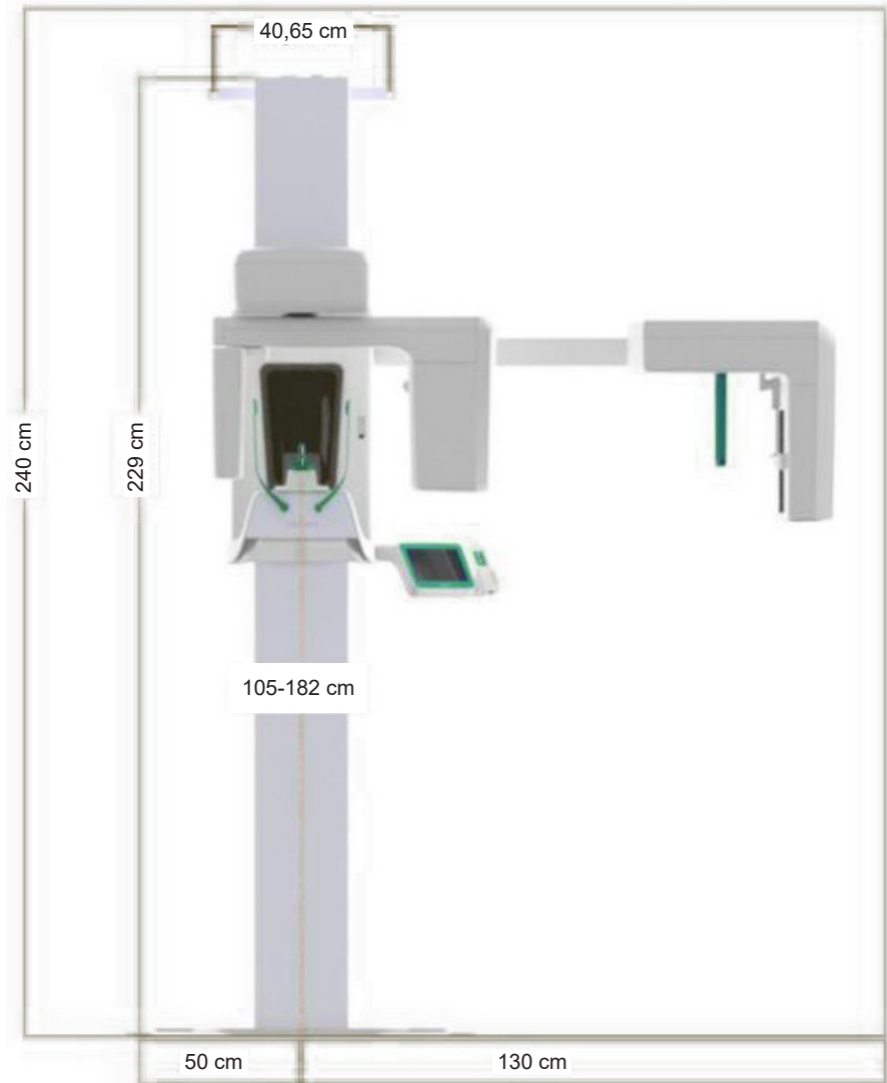
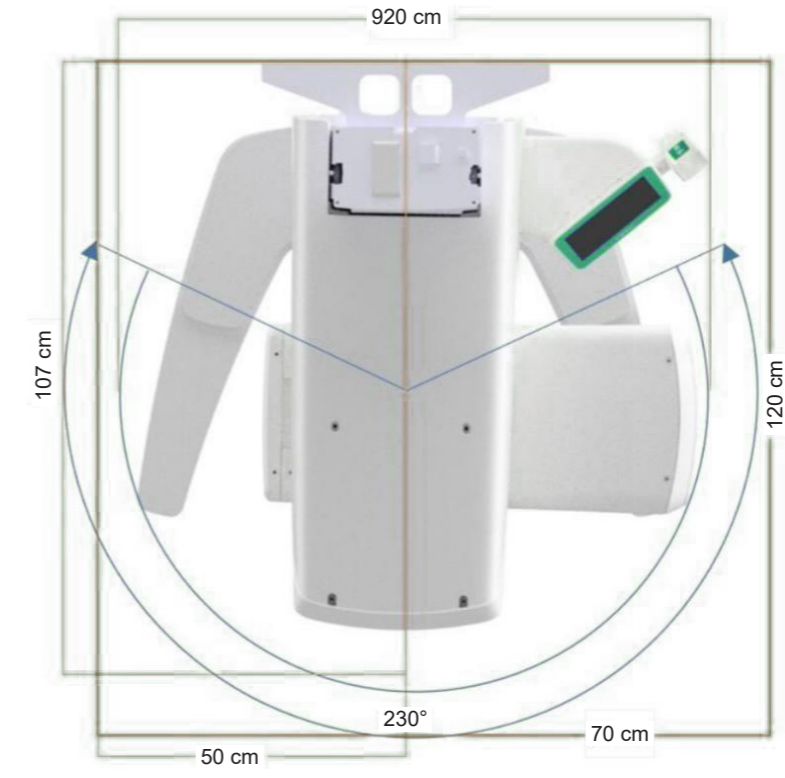
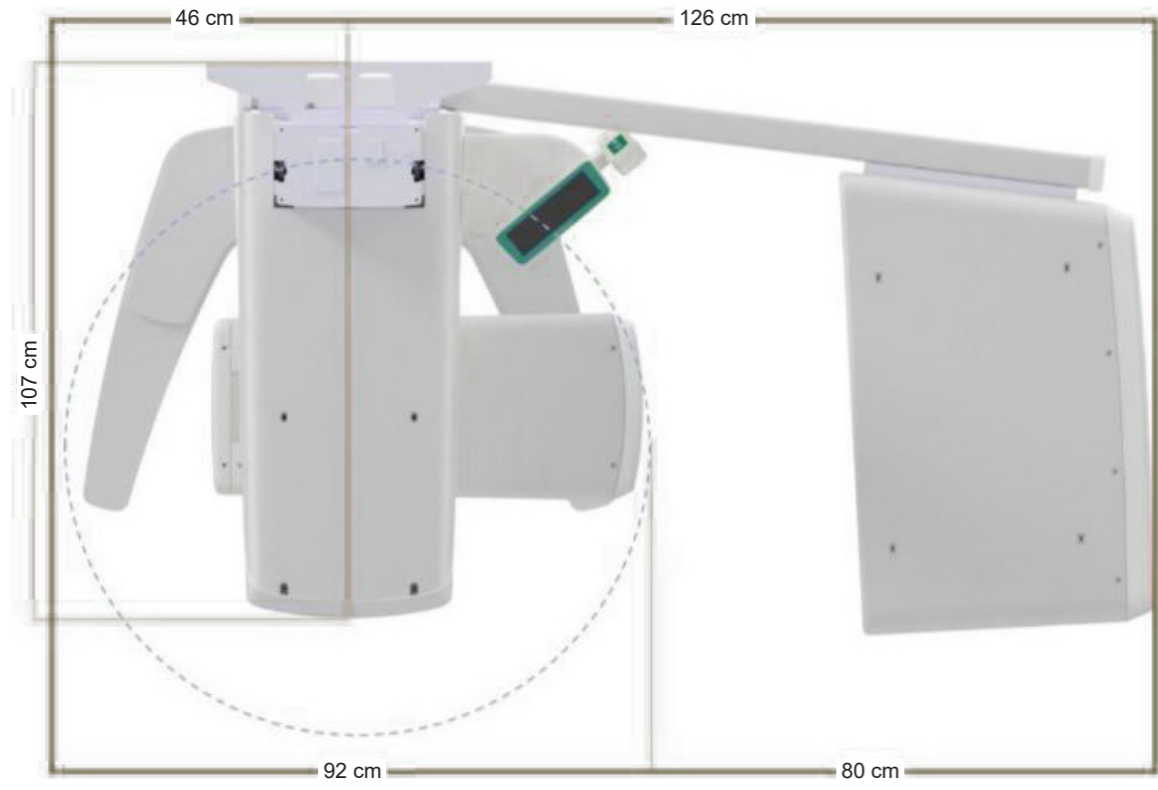
2D							
	Standard PAN	Hemi PAN right	Hemi PAN left	Frontal Dentition	TMJ closed mouth	TMJ open mouth	Sinus
OPTIONAL 2D							
	Reduced Dose Panoramic	Improved Orthogonality Panoramic	Right Bitewing	Left Bitewing	Right and Left Bitewing		
CEPH							
	Latero-Lateral 30x24	Antero-Posterior	Carpus Image				

OPERA 3D - TECHNICAL DATA

	CBCT		CEPHALOMETRIC DR
	3D ONLY	3D PAN	
X-RAY TUBE			
GENERATOR	GENERATOR High Frequency DC Generator		
OPERATIVE MODE	Pulsed		Direct
TUBE VOLTAGE	73-85 kVP		61-85 kVP
ANODE CURRENT	6.3-10 mA	5-10 mA for PAN 6.3 -10 mA for 3D	5-10 mA
FOCAL SPOT	0.5 mm		
DETECTOR			
IMAGE DETECTOR	CMOS		
FOV CM	Single FOV 9x9	Single FOV 9x9, 11x11 MultiFOV 11x11, 9x9, 11x6, 5x5 30x15 PAN	30x24
PIXEL SIZE	100 µm	100 µm	125 µm
VOXEL SIZE	121 µm	65-141 µm 3D	-
ACQUISITION			
EXPOSURE TIME	8.5 s	8.5 s for 3D 2.4 to 15.5 for PAN	200-500 ms
SCAN TIME	12.2 s	12.2 s for 3D	Immediate
EXAMS	Volumetric 3D Dentition Left/Right TMJ 3D Sinus	Adult/Child Standard Panoramic Adult/Child Hemi Panoramic Frontal Dentition TMJ closed/open mouth 2D and 3D Sinus Volumetric 3D Dentition Left/Right TMJ	LL CEPH 30x24 AP CEPH Carpus
VOLTAGE SELECTION	Automatic selection of kV and mA with manual adjustment option		
OPT. PAN EXAMS	Reduced Dose; Improved Orthogonality; Right Bitewing; Left Bitewing; Right and Left Bitewing		
IMAGE FORMAT			
	DCM, STL* (Option), JPEG, BMP, PNG, TIFF, DCM		
DIMENSION			
HEIGHT (cm)	223,5 cm		
WEIGHT (kg)	110	+25	
SOFTWARE			
INCLUDED	Archimed, Xelis Basic		
OPTIONAL	*Xelis Advanced		DFO
	DICOM Full (PACs, Worklist, Storage, Retrieve, Print), DICOM Print		

EXAMS

3D							
	9x9	11x11	6x11	5x5			
2D							
	Standard PAN	Hemi PAN right	Hemi PAN left	Frontal Dentition	TMJ closed mouth	TMJ open mouth	Sinus
OPTIONAL 2D							
	Reduced Dose Panoramic	Improved Orthogonality Panoramic	Right Bitewing	Left Bitewing	Right and Left Bitewing		
CEPH							
	Latero-Lateral 30x24	Antero-Posterior	Carpus Image				





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