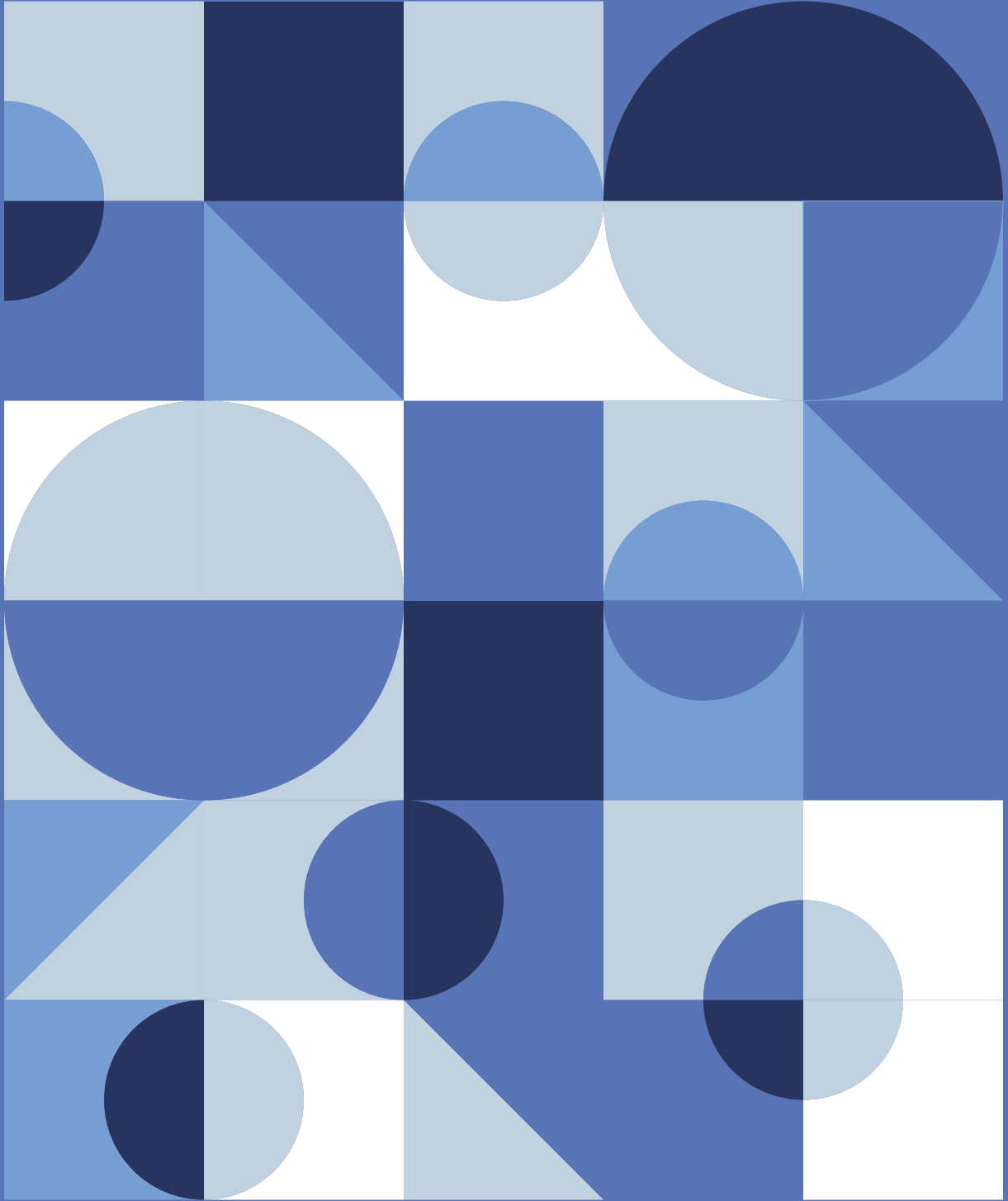


X-VIEW 3D



Discover a world of images

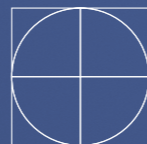
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3D

Trident introduces the most advanced CBCT-Cone Beam Computed Tomography-technology to acquire volumetric images of dental structures, soft tissues, nerve paths and bone in the craniofacial region with a single scan.

X-VIEW 3D

X-VIEW



HIGHLIGHTS

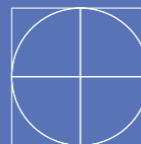
CBCT technology

Same sensor for 2D and 3D images

Ceph with Single Shot Technology



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X-VIEW 3D

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REMARKABLE FEATURES THAT CANNOT BE SEEN AT GLANCE

ONE

SAME SENSOR FOR 2D AND 3D IMAGES

To obtain 15x30 cm 2D PAN and volumetric images in the fastest scanning time, from 2,4 to 15,5 s

- CMOS flat panel sensor
- Pixel size 100 µm
- Voxel size 65-141 µm

TWO

TWO DETECTORS FOR WORKFLOW OPTIMIZATION

A CMOS sensor flat panel and a dedicated DR digital detector are the perfect match to obtain excellent PAN, 3D and CEPH images. The DR (Digital Radiography) detector is the highest quality technology available to obtain Ceph sharp images.

THREE

ADVANCED SOFTWARE TOOLS

DEEP-VIEW IMAGE SUITE

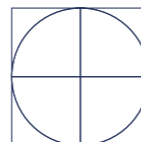
Software to obtain and manage 2D, 3D and CEPH images.

DFO: DENTAL - FACIAL - ORTHOPEDICS (OPTIONAL)

Software for orthodontic tracing and cephalometric analysis.

XELIS DENTAL IMPLANT PLANNING

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FOUR

PULSED DC X-RAY GENERATOR

This high frequency generator emits X-Rays in sync with the sensor, avoiding useless X-Rays when the sensor is transmitting the image, which notably reduces the dose to the patient (around 30%), the generator stress and the unit's consumption.

FIVE

MAR ALGORITHM

The presence of image artefact is a deviation between the reconstructed image and the real content of the studied object. The most prominent source of artefact is beam hardening, which is accentuated in the presence of titanium implants, amalgam restorations and metallic prosthesis.

The Metal Artefact Reduction (MAR) algorithm is a software function that recognizes the metal elements present in the images and automatically generates an additional set of images with a better yield for clearer vision and minimized artifacts.

SIX

CEPH WITH SINGLE SHOT TECHNOLOGY

Significantly reduces exposure time without deteriorating the quality of the image.

- Avoids prolonged exposure to radiation and blurred images
- Prevents the complications deriving from the mechanical movement of scanning-systems

SEVEN

DR CEPH DETECTOR ADVANTAGES

- Better contrast
- More details and filtering
- No background disturbance
- Exposure time: 200-500 ms
- Reading time: immediate
- Detector-PC image transmission: 2sec
- Calibration method: easy, intuitive and manageable from remotely.

A WORLD OF IMAGES WITH THE MOST INNOVATIVE SOFTWARE TOOLS

DEEP-VIEW

Deep-View imaging suite is a complete and integrated software for 3D, 2D panoramic and Cephalometric images.

- User friendly
- Exceptional post process filter to always reach the best images
- Bridge and TWAIN included
- Multiplatform system
- Dedicated images processing tools to enhance the image quality
- DICOM compatibility and exporting images into graphic formats: .jpg, .png, .bmp
- Multiple database management
- Customizable features for full mouth series exams



EASY TO USE

Run the amazing features of Deep-View in a few simple steps.



EFFICIENT

Save time, optimize files' management, and speed up the workflow.



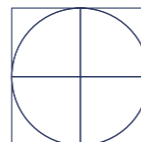
MULTIPLATFORM

The interface innovative design makes Deep-View easy to use in multiple devices.

DFO: DENTAL FACIAL ORTHOPEDICS

Trident offers, as an optional, this amazing tool for orthodontic tracing and cephalometric analysis. Just run DFO and set all the points needed to complete analysis which will be automatically calculated and drawn on the screen.

- Differential Analysis /Orthodontic Analysis
- Images stored in DICOM format
- Interactive Tutor
- Layer-based Analysis
- Optional modules: VTO, STO, Hand X-Ray
- User setup
- Analysis in different colors
- Automatic zoom & filters



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XELIS

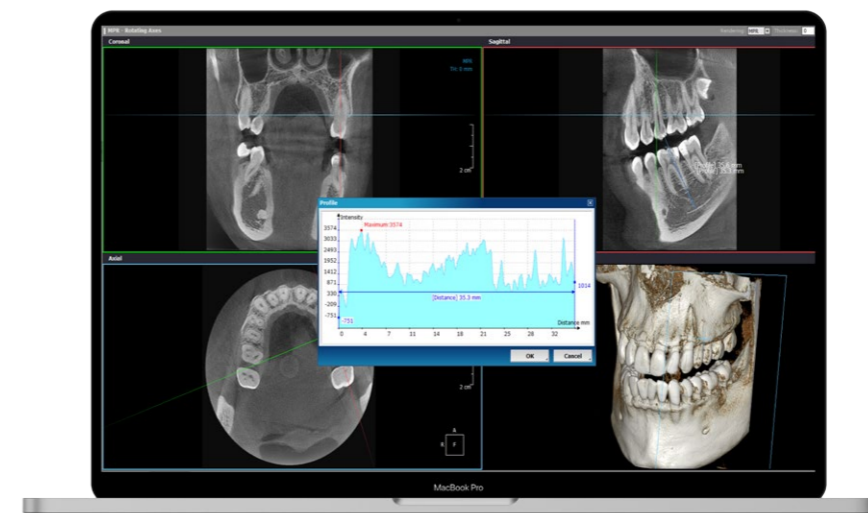
XELIS DENTAL COMBINED WITH DEEP-VIEW SOFTWARE, DELIVERS HIGH PRECISION 3D IMAGES AND PROVIDES ADVANCED FEATURES FOR IMPLANT PLANNING TREATMENT AND POST-PROCEDURE FOLLOW-UP. AVAILABLE IN TWO VERSIONS, BASIC AND ADVANCED

MODULE/OPTION	BASIC	ADVANCED	REMARKS
No of concurrent Users	1	1	
DBM	•	•	Xelis Dental Database
Basic 3D Toolbar	•	•	Including Measurement Tools, MPR, Cross Section
Advanced Toolbar	•	•	Canal Draw, Implant Simulation, Utilities
STL		•	STL export
CD/DVD/USB export		•	Image export to external storage
Batch Print		•	One click Image Batch Print (Axial, Panoramic, Cross Section)
DLB		•	Dynamic Lightbox
Stitching		•	Image stitching
Report		•	Captured Image Management and Report Generation
Multiuser	•	•	Optional (extra charge)

PLUG AND PLAY DEVICE

The PC for X-VIEW 3D comes with Deep-View software + Xelis Basic software installed. The computer is configured from the factory in every single detail.

The calibration files are already provided, so the user does not have to manually install them or even manipulate the computer with instructions for operation, avoiding complicated calibrations on site, after the installation, or during the unit useful life.



QUICK AND EASY PATIENT POSITIONING

Ergonomics in design helps to achieve the perfect focal trough and correct patient's posture.

The specially designed tools assist patients, during the acquisition process, to maintain their position avoiding errors in the procedures:

- The bite block centers the teeth by aligning the arches, positioning the incisors on the focal plane, and allowing vertical symmetry
- Two laser lines trace the references of the area of interest, while the mirror located in front of the bite-block helps patients to control their position

X-VIEW 3D PAN CEPH adapts to all sizes and types of patients, the linear and open design facilitates access for wheelchair users.

The motorized lifting with two speeds makes patient positioning easier than ever. The quick movement allows adjustment of the unit to the patient height; with the slow movement a precise alignment is achieved using the laser.

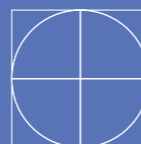
The double laser is an essential tool to get the perfect inclination and orientation of the patient's head. The chin rest helps to achieve an accurate focal plane for very low risk of error in diagnostic images.



MOTORIZED LIFTING
MECHANICAL SUPPORT



X-VIEW 3D

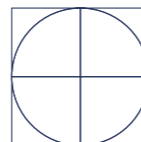


7-INCH COLOR TOUCHSCREEN



Operators can quickly access and interact with the unit. The control panel allows easy navigation with minimal effort and time allowing smooth use as the user can easily move between the different options.

- The LCD screen facilitates direct interaction with the unit
- Ideal screen size clearly displays icons and messages
- The menus are very easy to navigate. Universally recognized icons indicate available functions, parameters and options
- All instructions are multilingual and with a simple and easy to understand construction
- On-screen commands simplify the choice of patient and exam type, exposure parameters, movement speed, and patient position



FULL DETAILED VOLUMES FOR EVERY CLINICAL NEED

The field of view defines the extent of the displayed area for high contrasted and dynamic images rich in details. X-VIEW CBCT images with high diagnostic value and a considerable reduction in the absorbed dose are based on the ALARA principle (As Low As Reasonably Achievable).



FOV 5x5 cm

65 micron maximum resolution for detailed images of small areas comprising upper / lower, right / left, front / back teeth, dedicated to performing endodontic analysis and implant treatments. The use of small FOV has been increasingly indicated because it enhances image quality and reduces X-radiation dose.



FOV 6x11 cm

This FOV covers the entire upper/lower dental arch.

- Implant planning treatment
- Orthodontics



FOV 9x9 cm

This FOV encompasses all teeth, the upper and lower arches, a part of the maxillary sinus and partially the condyles.

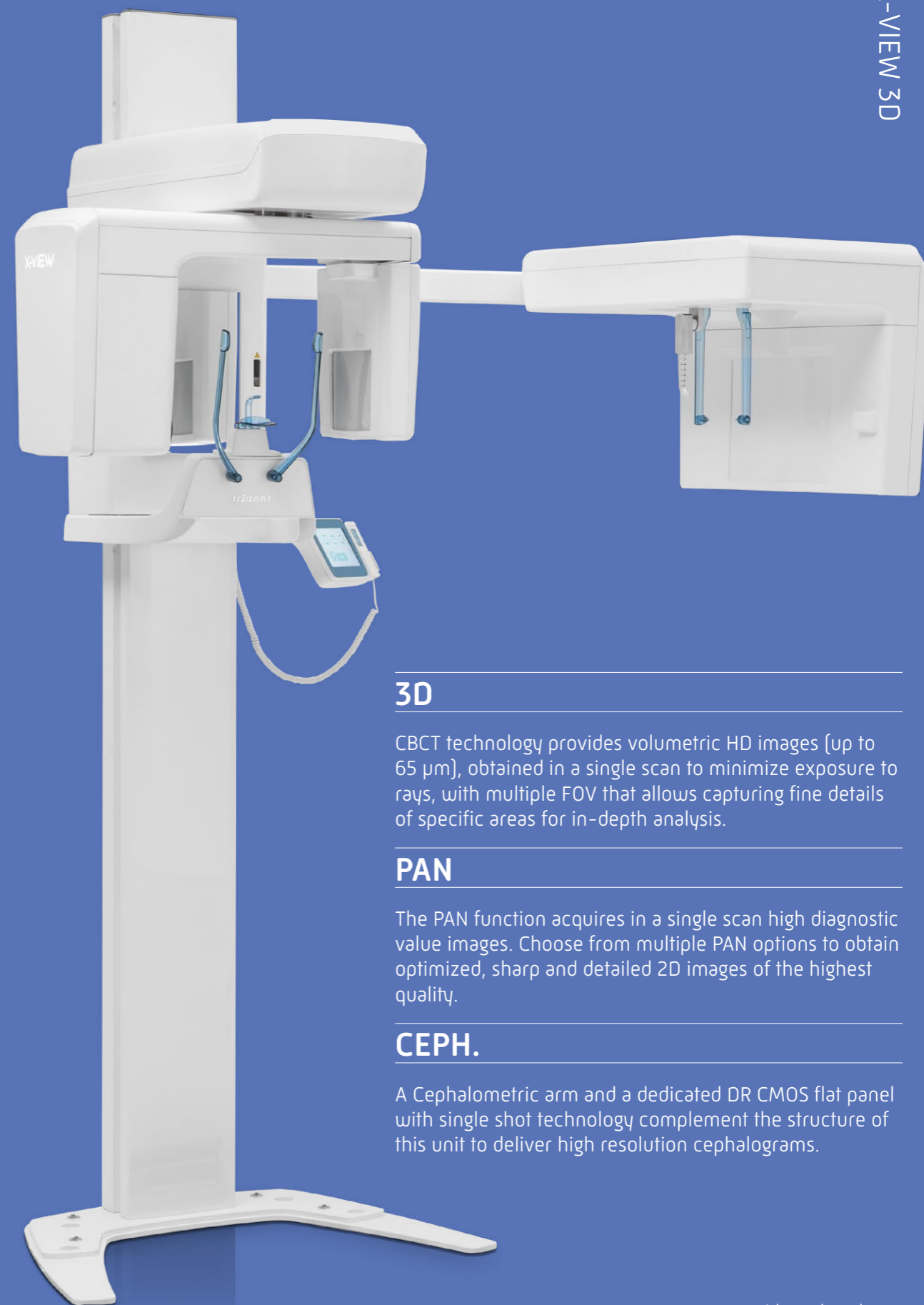
- Detecting sinus pathology
- Implant planning treatment
- Orthodontics



FOV 11x11 cm

This FOV offers a full view of the dentition including the third molar (wisdom teeth), mandibular canal and the maxillary sinus. The full 11x11 cm FOV brings top quality and precise 3D images which help dentists identify potential problems & design highly customized treatment plans.

Available in three models: 3D ONLY, 3D PAN and 3D PAN CEPH. X-VIEW 3D CBCT system combines the latest advances in digital radiology with a clean and compact design to offer complete and affordable imaging solutions.



X-VIEW 3D



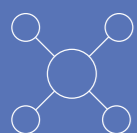
PRECISE DIAGNOSTICS

Images obtained with X-VIEW 3D cone beam CT allow for more precise diagnostics.



ACCURATE IMAGES

Thanks to its evolved functions, trajectories, and collimations applicable to each exam, images are full of details and contrast.



HIGH CONNECTIVITY

The software offers an expanded set of tools to easily manage the images allowing easily saving, exporting, and sharing the files.



LOW RADIATION DOSE

The high frequency generator and the pulsed emission adjust the exposure adapting the dose to the dimensions of the examined area without compromising image quality.



GO-GREEN AND SAFE PACKAGING

Thanks to the new detachable column, the unit is safely packed using only one triple wall corrugated 120 * 80 * h120 cm cardboard box. It is a sustainable packaging manufactured with materials and techniques that reduce both energy consumption and the harmful impact of packaging on the environment.

3D

CBCT technology provides volumetric HD images (up to 65 μm), obtained in a single scan to minimize exposure to rays, with multiple FOV that allows capturing fine details of specific areas for in-depth analysis.

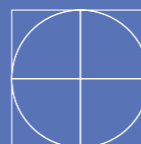
PAN

The PAN function acquires in a single scan high diagnostic value images. Choose from multiple PAN options to obtain optimized, sharp and detailed 2D images of the highest quality.

CEPH.

A Cephalometric arm and a dedicated DR CMOS flat panel with single shot technology complement the structure of this unit to deliver high resolution cephalograms.

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3D ONLY

X-VIEW 3D ONLY was created thinking about doctors who just need 3D images. No excessive functions, no complicated operations, a single click is enough to acquire sharp and detailed 3D images for more reliable and accurate diagnostics, treatments, and follow-ups.

CMOS FLAT PANEL SENSOR

SINGLE FOV 9x9 cm

VOXEL SIZE 121 μ M

EASY INSTALLATION AND MAINTENANCE

2D PANORAMIC IMAGE CAN BE RECONSTRUCTED FROM THE 3D EXAM BY SOFTWARE.

X-VIEW 3D ONLY provides the following display modes apart from basic orthogonal views:

OBLIQUE SLICING

CURVED SLICING

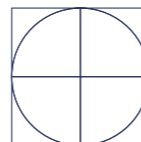
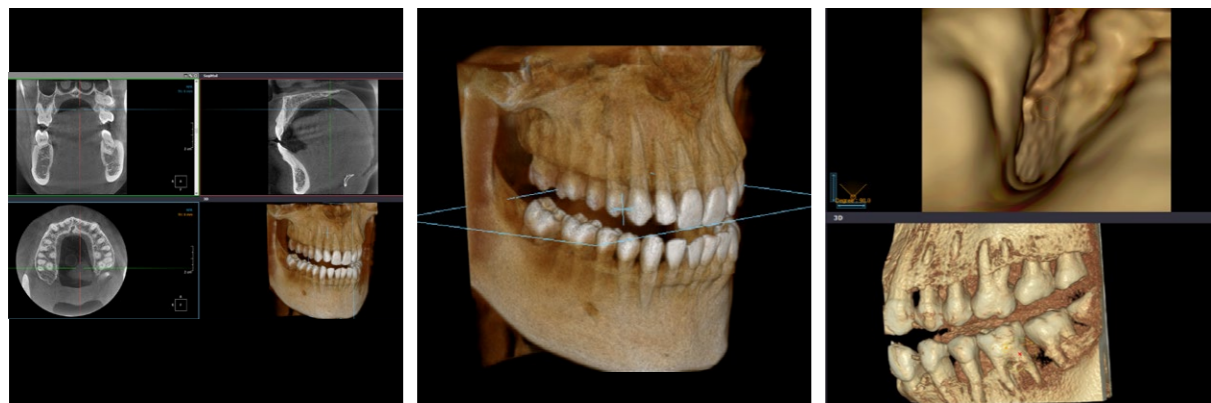
CROSS-SECTIONAL (OBLIQUE CORONAL) VIEW

ERAY SUM

VOLUME RENDERING

Two software, Deep-View + Xelis, intuitively work on the volume (cutting, measuring bone density and root depth and analyzing the mandibular canal) providing doctors with an efficient tool for specialized procedures in endodontics, orthodontics, implantology and maxillofacial surgery.

X-VIEW 3D ONLY provides extensive tools to analyze and do implant treatment. The specific software allows diagnostics, plan and delivery implants treatment, implant simulation and virtual study prototypes. Also, it can be used to share the 3D models to dedicated surgical guides software.



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3D PAN

X-VIEW 3D PAN is an efficient two-in-one solution to obtain in fastest scanning time (from 2,4 to 15,5 s) a wide range of dental 2D panoramic and 3D images, specially dedicated to practitioners in orthodontics, endodontics and implantology. This unit was developed to provide medium to large dental offices with a working tool that enables doctors to efficiently manage the clinic workflow.

CMOS FLAT PANEL SENSOR

SINGLE FOV 9x9 cm

SINGLE FOV 11x11 cm

MULTIFOV 11x11, 9x9, 6x11, 5x5 cm

PIXEL SIZE 100 μ M

VOXEL SIZE 65-140 μ M

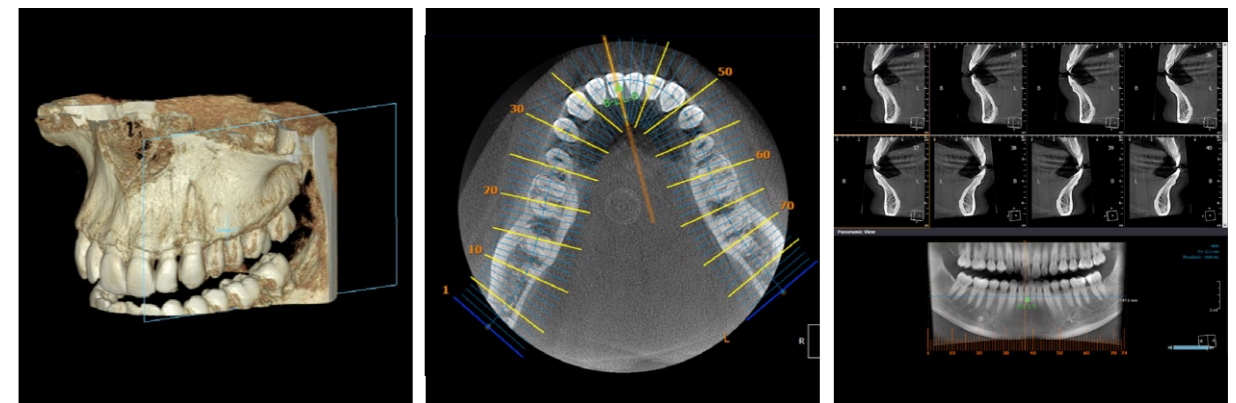
15x30 cm ADULT 2D PAN IMAGES

13x30 cm CHILDREN 2D PAN IMAGES

VOLUMETRIC IMAGES

CEPH UPGRADABLE

- Evaluates the detailed morphology of the bone tissue
- Explores the maxillary sinuses
- Detects dental anomalies
- Determines the protocol for extraction of impacted teeth
- Diagnoses temporomandibular joint problems



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3D PAN CEPH

This exclusive CBCT three-in-one system enables doctors to perform every kind of exam: along with its exceptional 3D imaging capabilities, X-VIEW 3D PAN CEPH also features 2D panoramic and cephalograms.

CMOS FLAT PANEL SENSOR

SINGLE FOV 9x9

SINGLE FOV 11x11

MULTI FOV 11x11, 9x9, 11x6, 5x5

PIXEL SIZE 100 µm

VOXEL SIZE 65 TO 140 µm

VOLUMETRIC IMAGES

15x30 cm ADULT 2D PAN IMAGES

13x30 cm CHILDREN 2D PAN IMAGES

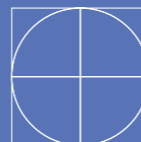
24x30 AP AND LL CEPHALOGRAMS

CARPUS

- Surgical planning for impacted teeth
- Diagnosis of TMJ disorder
- Precise dental implant placement
- Evaluation of the jaw, sinuses, nerve canals, and nasal cavity
- Detect, measure and treat jaw tumors
- Determination of bone structures and tooth orientation
- Cephalometric analysis

AP and lateral cephalograms provide useful information for orthognathic surgical planning, facial asymmetry correction, malocclusion and orthodontic treatment. The lateral cephalogram is used to establish the forward projection of the

nasion, subnasale, and gonion. The AP cephalogram helps to establish the relationship of the horizontal occlusal plane to the skull base.



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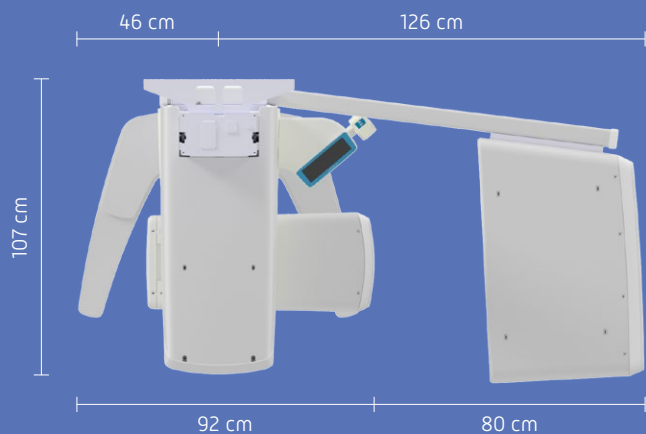
TECHNICAL DATA

	CBCT		CEPHALOMETRIC DR
	3D ONLY	3D PAN	
X-RAY TUBE			
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	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	Deep-View, Xelis Basic		
OPTIONAL	*Xelis Advanced		DFO
DICOM Full (PACs, Worklist, Storage, Retrieve, Print), DICOM Print			

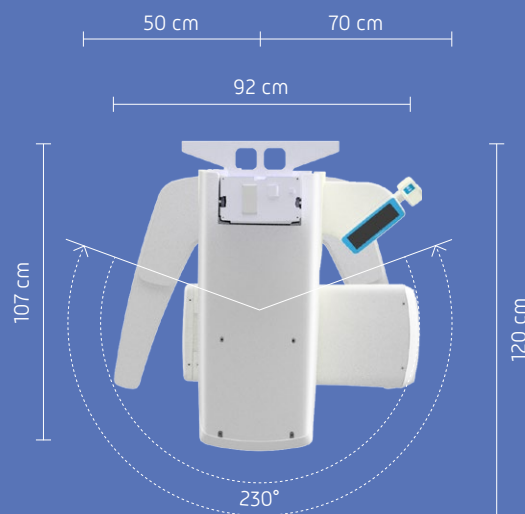
EXAMS

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

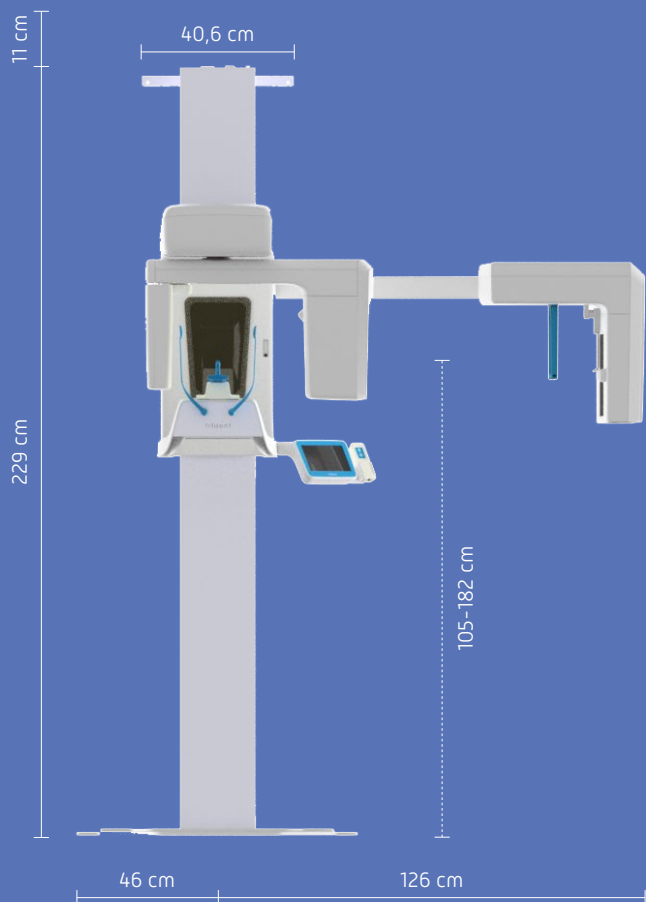
X-VIEW 3D PAN CEPH



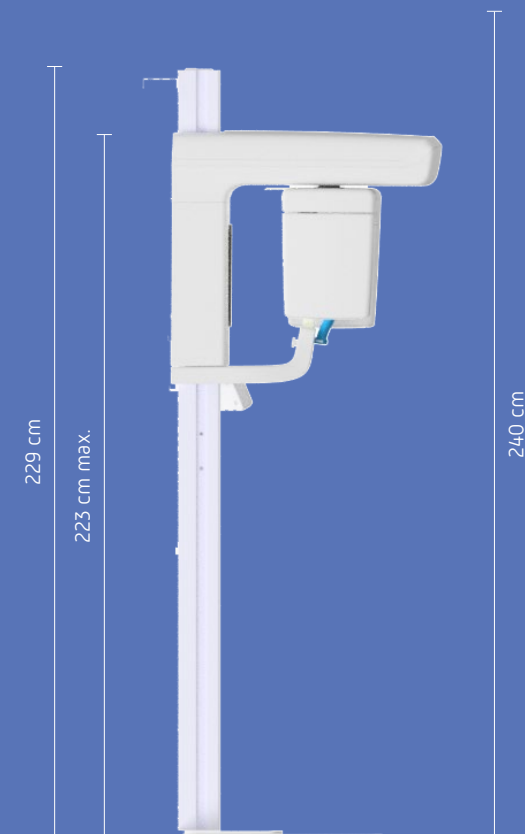
X-VIEW 3D ONLY/3D PAN



X-VIEW 3D PAN CEPH



X-VIEW 3D ONLY/3D PAN



Trident S.r.l.

Via Artigiani, 4 25014 Castenedolo
 Phone +39 030 2732485
 info@trident-dental.com

www.trident-dental.com