



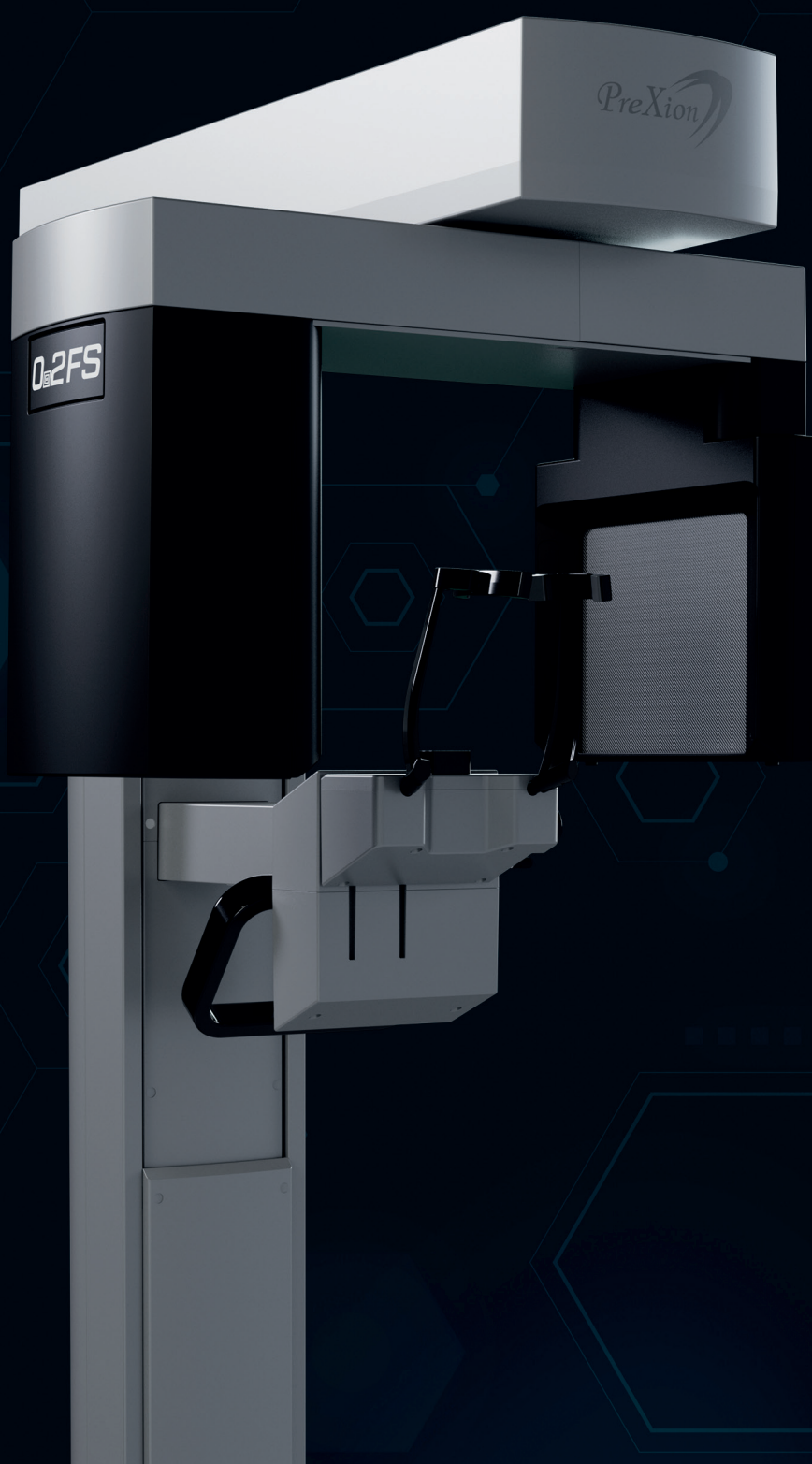
EXCELSIOR ENDO



JAPANESE TECHNOLOGY

GLOBAL STRENGTH

Technology that the world trusts



PREXION – A PROVEN BRAND

Hardly any other company on the market is as specialised in three-dimensional X-ray diagnostics as PreXion from Japan. With well over 15 years of experience in software-supported 3D X-ray imaging, PreXion systems offer outstanding precision for safe diagnostics and planning in all areas of dentistry.



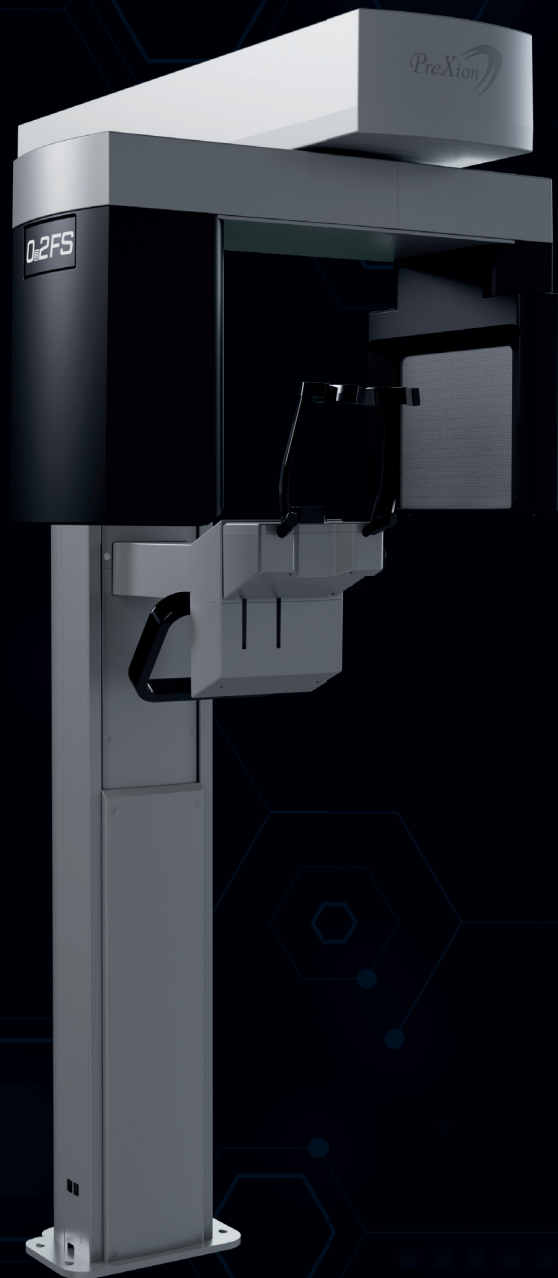
Silicon Valley

PreXion

Dental tomography

EXCELSIOR ENDO

High resolution CBCT scanner



Available in
4 fields of view
(FOV):



Ø5x5



Ø9x6



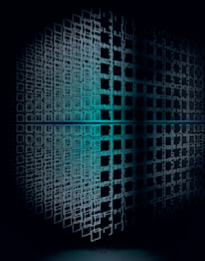
Ø9x9



Ø14x9

Voxel 48 Micrometers

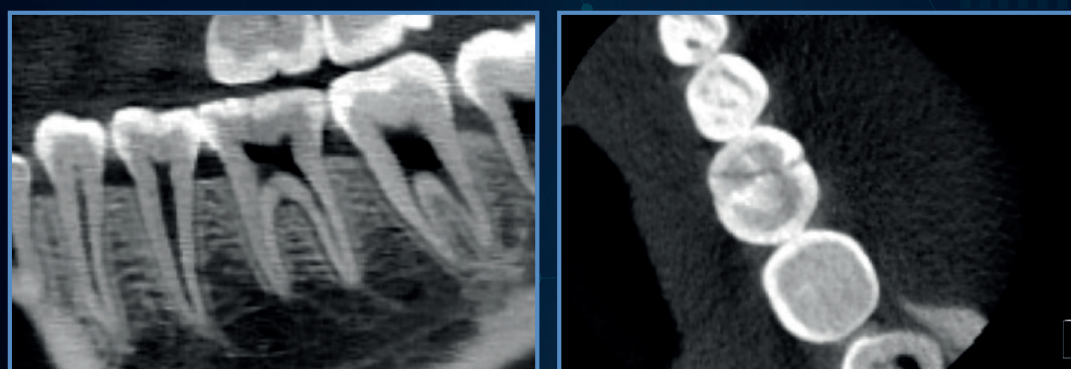
The Prexion Excelsior Endo “ENDO” mode is optimized for diagnosing areas that require very high-resolution images. The 0.2 focal spot combined with the 48-micron voxel allows extraordinary images and an accurate diagnosis.



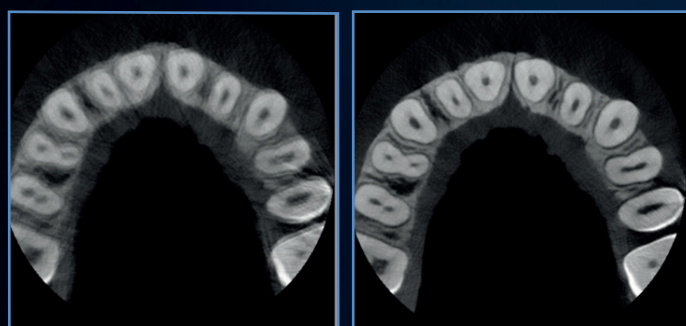
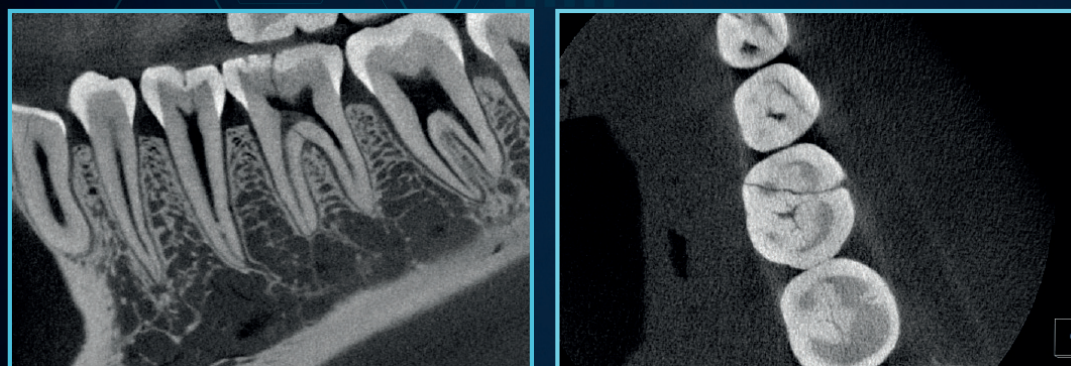
Why invest in a CT scanner with a 0.2 mm focal spot?

Choosing a smaller focal spot results in less geometric blurring, meaning a sharper, more detailed image. Images taken with a 0.2 mm focal spot have higher resolution compared to images taken with conventional machines.

Focal Spot 0.5:



Focal Spot 0.2:



Without correction

With correction

Motion Correction (PMC)

Prexion's algorithm automatically corrects the image, ensuring a high-quality exam, avoiding repetitions, and offering greater accuracy for diagnoses.

Cooling System

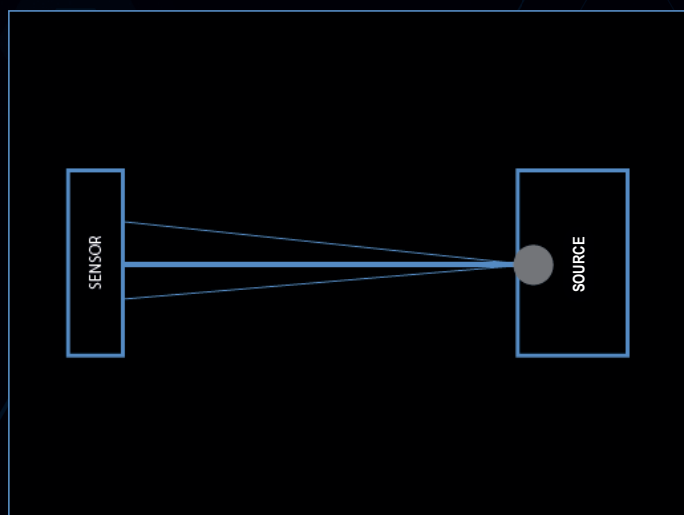
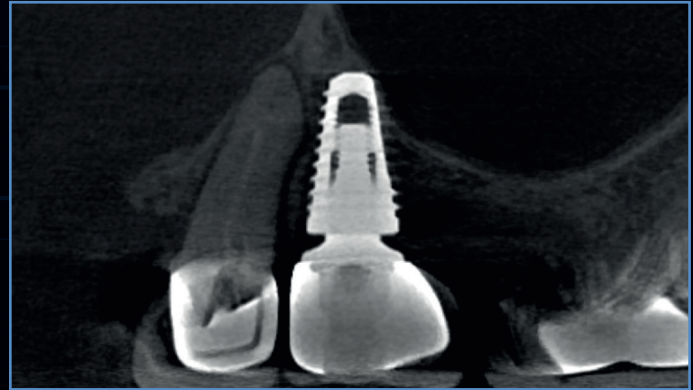
All equipments' head features a cooling mechanism that allows for optimal workflow. It features an aeronautical-grade injected aluminum housing with fins to ensure optimized heat exchange and airflow maximized by the use of two high-flow, low-noise fans.



Dynamic Range

Dynamic range is how much a sensor can capture at low, medium, and high exposures.

Using a grayscale ranging from absolute black (0%) to absolute white (100%). The Prexion line has excellent dynamic range, which influences the ability to distinguish different structures and make more accurate diagnoses.



HORIZONTAL BEAMS

One of the biggest difficulties in making an accurate diagnosis in tomography is the influence of metallic artifacts in the image. The Excelsior Endo, as a dedicated CT scanner, has a horizontal beam that minimizes dependence on the use of metal artifact reduction algorithms to ensure an accurate and reliable diagnosis.

Clinical Images

High Resolution CT Scanner - Excelsior Endo

FOV Ø 5x5 Ø5x5 - ENDO

Small FOV optimized for local diagnosis, such as single implant planning, third molar extraction, and endodontic procedures, with a resolution of 48µm for the Excelsior Endo. It keeps patient exposure dose at a significantly low level.



FOV Ø 9x6

Ø9x6 - MAXILLA OR MANDIBLE

Allows visualization of one arch (maxilla or mandible) or TMJ (left or right condyle separately).

FOV Ø 9x9 Ø9x9 - FULL ARCH

Covers the entire arch, including the mandible, maxilla, and ramus.



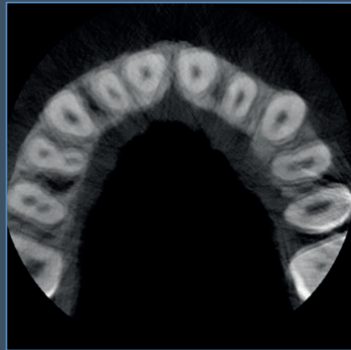
FOV 14x9

Ø14x9 - EXTENDED FULL ARCH

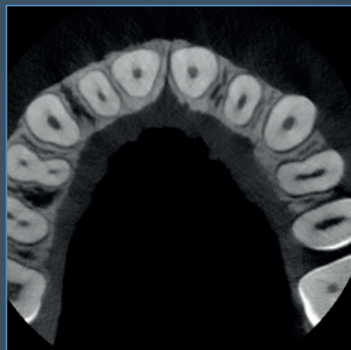
Comprises the third molar and zygomatic arch regions in a single volume.

3D ALGORITHMS

RESPONSIBLE FOR OPTIMIZING YOUR CARE FLOW AND DIAGNOSTIC ACCURACY



Without correction



With correction

Patient Motion Correction (PMC)

During exams, it is common for the patient to make micro-movements, which can compromise the final exam result.

Prexion's algorithm automatically corrects the image, ensuring a high-quality exam, avoiding repetitions, and offering greater accuracy for diagnostics.

METAL ARTIFACT REDUCTION (MAR)

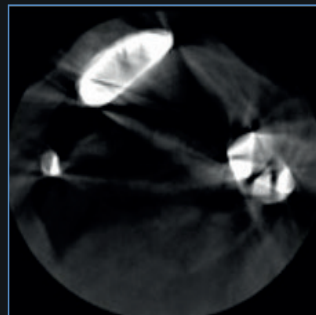
Prexion offers options with processing levels that can be chosen to correct deformations of gutta-percha, implants and/or wide prostheses, and metal restorations, in addition to automatic metal reduction. This feature also allows image reprocessing for better diagnosis without the need to re-expose the patient.



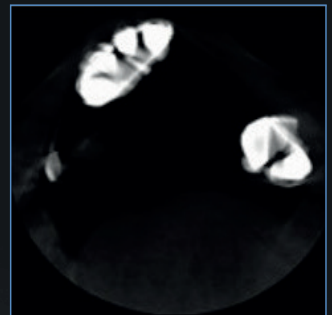
Without MAR



With MAR



Without MAR



With MAR

2D ALGORITHMS

INTELLIGENCE APPLIED TO PANORAMIC EXAMS GENERATING AMAZING IMAGES.

Contrast Algorithm

An innovative algorithm that acts on all regions of the image, treating and improving the contrast of each area individually. The result is a homogeneous, noise-free image, allowing the visualization of details and, consequently, better diagnosis.

Focus Algorithm

The Prexion software features an innovative function that delivers a final image with greater detail and definition, especially in the incisor and canine regions, TMJ, and root canals.



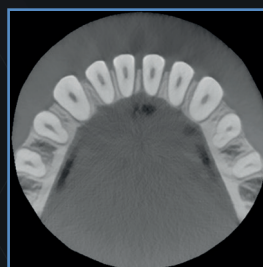
The combination of algorithms allows for the reconstruction of an optimized panoramic image. This technology allows us to bring the best diagnostic quality to the most challenging cases

VERSATILITY AND INNOVATION: THE FOCUS OF THE PREXION LINE

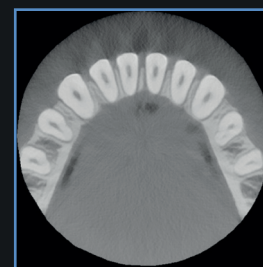
120KV Tube Voltage

The Prexion Line offers a tube voltage of 120kV. Operation at 120 kV combined with special radiation filters produces beams with higher average energy, reducing lower-energy photons, which provides two benefits:

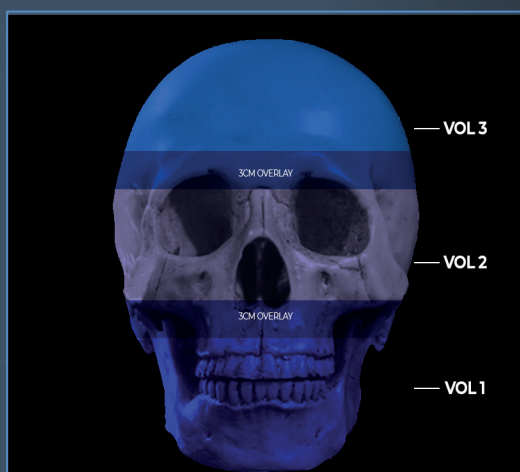
- 1 - Fewer image artifacts, resulting from reduced beam hardening on the patient.
- 2 - Reduced production of low-energy beams, providing an image with better definition.



120 kv



90 kv



Stitching

Moving the chin rest allows large FOV tomographic images (16x15 and 16x21) to be performed in continuous operation, thus avoiding the need to reposition patients, minimizing positional shifts between individual captures. Single-sequence capture combined with automatic stitching (automatic volume fusion) and PMC (Patient Motion Correction) generates high-quality images, minimizing artifacts and reducing image capture and processing time.

Automatic positioning

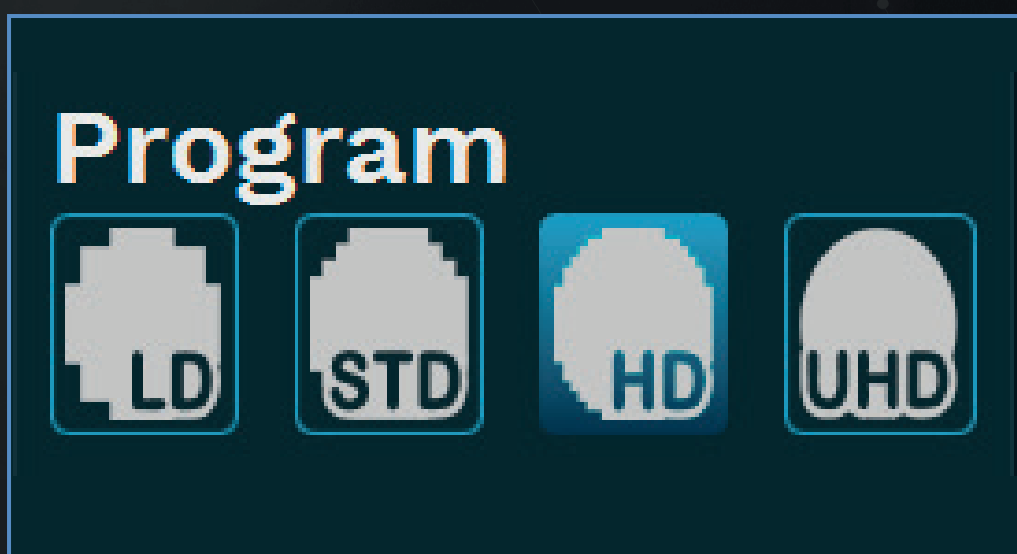
(3 cm overlap) between layers

Motion correction ensures image uniformity

Reduces the chance of rework.

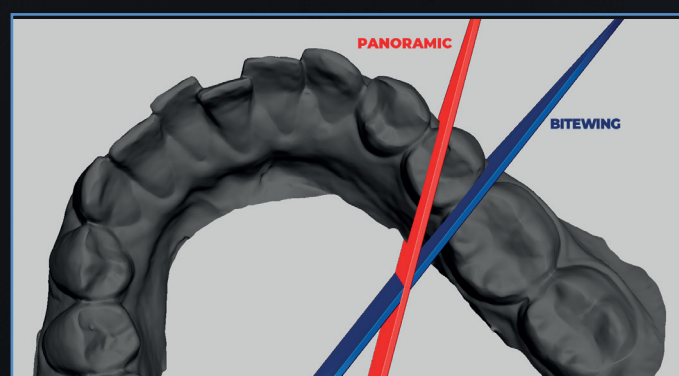
CHOOSE THE IDEAL PROGRAM FOR YOUR NEEDS

Choose the ideal resolution for each exam, adjusting the exposure time and voxel size according to the exam's objective. Control the exposure to obtain an image with higher resolution or lower exposure.



3 Axes

The state-of-the-art movement system includes three axes (two orthogonal directions and one rotation), which allows greater flexibility in creating radiographic profiles, optimization of the slice plane thickness, and constant vertical magnification.



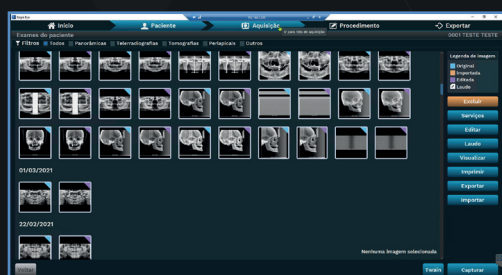
ONDEMAND

Convert to STL

Convert DICOM data to STL data using Ondemand 3D for use in CAD/CAM software and 3D printing

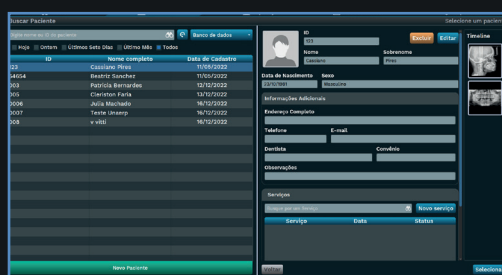
A usability-focused software that examines performance gains in report generation and assists professionals with the “fewer clicks as possible” premise, facilitating patient flow.

Dental Imaging Software - Eagle Eye: Anvisa 10101130091



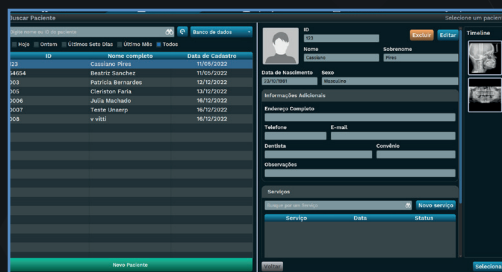
REGISTRATIONS

Simple and intuitive, it can be used to register users (with different permission levels), dentists, and patients.



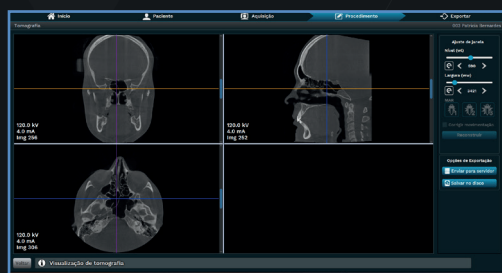
SEARCHES

Focus on usability. Can be applied to user, dentist, and patient searches.



CAPTURE AND EDITING

Capture and edit 2D images and 3D capture. All in the same software.



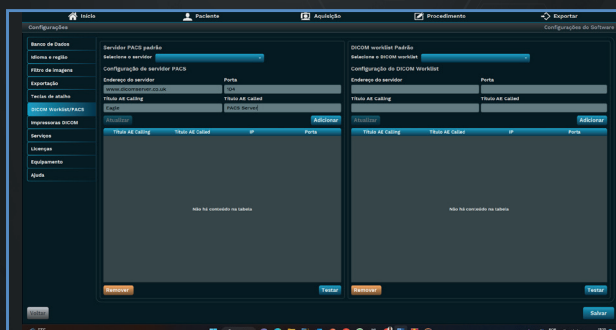
EXPORT

Export of DICOM images and files in formats compatible with all systems.



PANORAMIC REPORTS

Ability to create panoramic reports directly in the acquisition software. Speed and convenience.



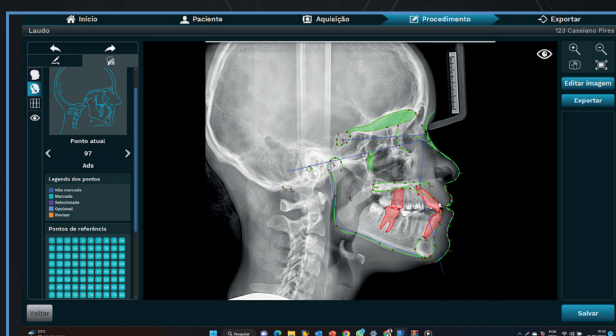
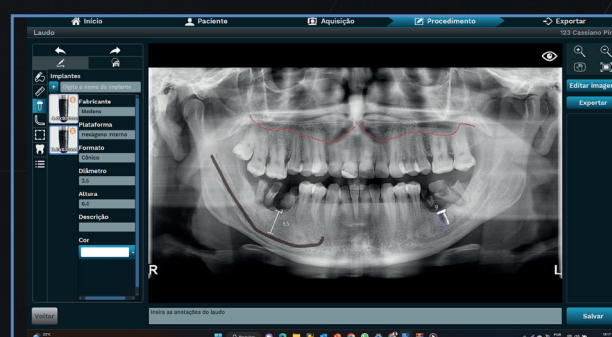
Connection

The Dicom Worklist, communication via PACS, and acquisition via TWAIN driver tools allow instant sending of images generated by the equipment to the main image management and sharing programs.

Implant Planning

Implant Planning is a tool that allows you to perform implant simulation directly on your PC.

It is possible to simulate the position of implants in two-dimensional and three-dimensional images, identify the mandibular canal, and take the measurements.

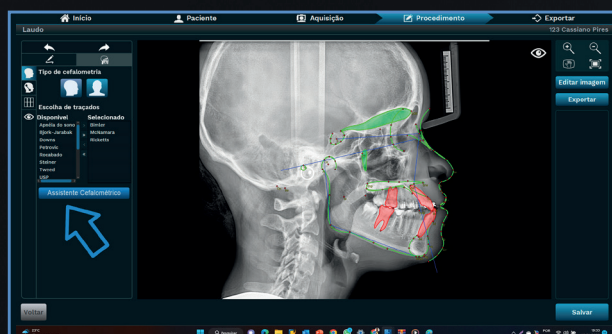


Manual Ceph

A tool that allows you to perform cephalometry, which is the teleradiography report, manually. Protocols (MCNAMARA, USP, Ricketts, Steiner, Rocabado, Tweed, among others).

Ceph IA*

By applying scientifically recognized protocols, Artificial Intelligence accelerates productivity in complex analyses and adds efficiency to your business.



*Optional

ONDEMAND 3D PLANNING SOFTWARE

OnDemand3D APP

The Prexion lines can optionally be accompanied by the OnDemand3D App software, the most widely used worldwide due to its user-friendly interface, resource availability, processing speed, and security.

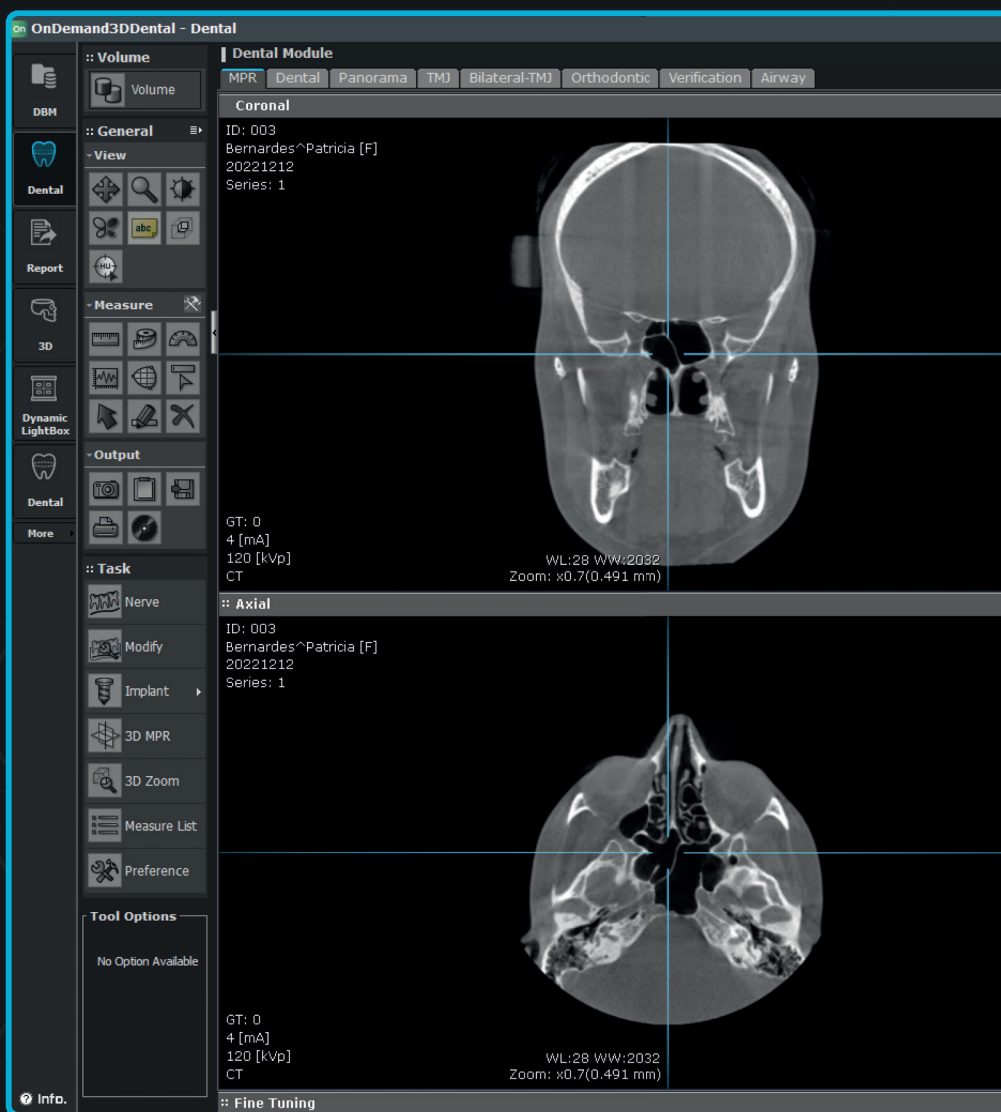
Viewer Generation

The OnDemand3D software allows the creation of a viewer so you can share exams with your clients and patients who do not have a specific program for viewing DICOM files.

This viewer includes all the diagnostic tools of the licensed version, such as implant positioning, measurements, and panoramic sections.

Report

OnDemand3D™ makes reporting easier and simpler for professionals, offering multiple templates for different purposes. Create your own report template with the X-Report Template Designer, which can be stored either in the database or on the computer in HTML, PPT, or PDF format.

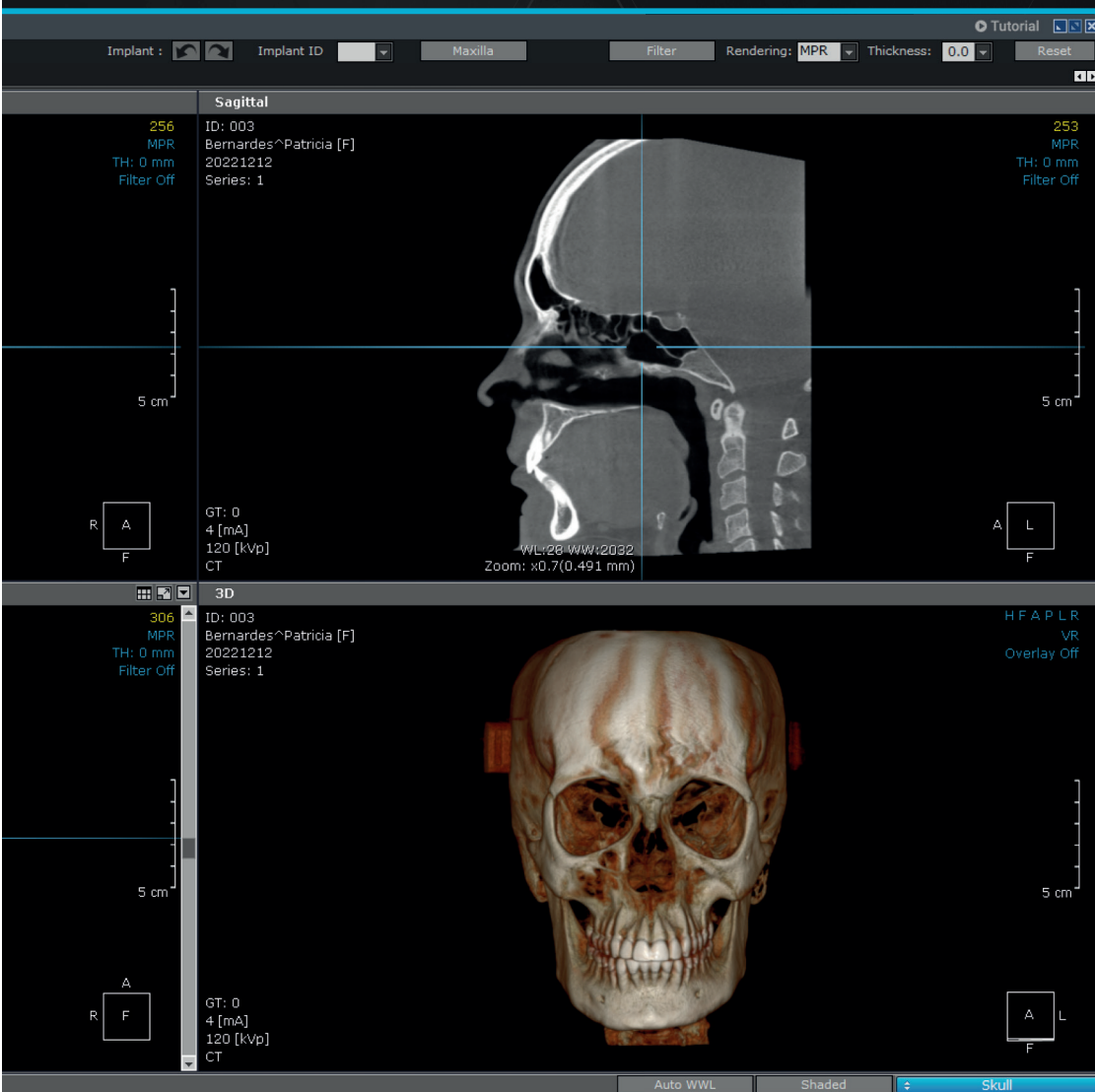


STL Conversion

Convert DICOM data into STL files using OnDemand3D™ for use in CAD/CAM software and 3D printers.

Implant Planning

Implant surgery is one of the most complex and sophisticated areas. Through OnDemand3D, it is possible to thoroughly analyze the patient's oral cavity, position the implant in the correct location, and perform a virtual operation.



MODELS	EVOLVE 2D	EVOLVE 2D CEPH	EVOLVE 3D (SFOV)	EVOLVE 3D CEPH (SFOV)
FEATURES				
FOCAL SPOT (mm)	0.5	0.5	0.5	0.5
VOXEL(µm)	NA	NA	75 µm - 250 µm	75 µm - 250 µm
FOV	NA	NA	5x5, 9x6, 9x9	5x5, 9x6, 9x9
CEPH	O (1 OR 2 SENSORS)	S	O	S
kV	60-90	60-90	60-120	60-120
mA	3.2 - 16	3.2 - 16	3.2 - 16	3.2 - 16
SUPPLY VOLTAGE	110/127/220/240 AC	110/127/220/240 AC	110/127/220/240 AC	110/127/220/240 AC
BITE BLOCKS	5 BITE BLOCKS AND 3 CHIN RESTS	5 BITE BLOCKS AND 3 CHIN RESTS	5 BITE BLOCKS AND 3 CHIN RESTS	5 BITE BLOCKS AND 3 CHIN RESTS
CARPAL SUPPORT	NA	S	NA	S
IMAGE PROGRAMMES				
SOFTWARE - LICENCES	Prexion Image (1 SERVER + 5 CLIENTS)	Prexion Image (1 SERVER + 5 CLIENTS)	Prexion Image (1 SERVER + 5 CLIENTS)	Prexion Image (1 SERVER + 5 CLIENTS)
STANDARD PAN	S	S	S	S
PEDIATRIC PAN	S	S	S	S
FAST PAN	S	S	S	S
MAXILLARY SINUSES	S	S	S	S
TMJ	S	S	S	S
BITE WING	S	S	S	S
ENHANCED ORTHO	S	S	S	S
MULTI SLICE	S	S	S	S
2D FILTERS	S	S	S	S
RESOLUTION	NA	NA	LD / STD / HD / UHD	LD / STD / HD / UHD
SOFTWARE PREXION IMAGE				
PATIENT AND EXAM MANAGEMENT	S	S	S	S
TWAIN	S	S	S	S
IMAGE MANAGEMENT	S	S	S	S
IMAGE POST-PROCESSING	S	S	S	S
EMAIL EXPORT	S	S	S	S
DICOM (IMPORT, SAVE AND SEND)	S	S	S	S
MEASUREMENTS AND ANNOTATIONS	S	S	S	S
PRINTING TEMPLATE	S	S	S	S
PREXION CONNECTION VIEWER CREATION, PACS COMMUNICATION AND DICOM WORKLIST	S	S	S	S
PREXION CEPH MANUAL TRACING	NA	S	NA	NA
IMPLANT PLANNING	S	S	S	S
CEPH IMAGE SIZE	NA	1: STD FULL + ADJUST 2: STD HALF + ADJUST	NA	NA
CEPH ARTIFICIAL INTELLIGENCE	O	O	O	O
SOFTWARE : PREXIONT CBCT				
MAR - ARTIFACTS REDUCTION	NA	NA	0/1/2/3	0/1/2/3
PMC - PATIENT MOTION CORRECTION	NA	NA	S	S
3D RECONSTRUCTION - CERA	NA	NA	S	S
3D VIEWER	NA	NA	S	S
ON DEMAND	NA	NA	S	S
UPGRADES				
TO CEPH	S	NA	S	NA
TO 3D - LFOV	S	S	NA	NA

MODELS	EXCELSIOR MID (MFOV)	EXCELSIOR MID CEPH (MFOV)	EXCELSIOR MAX (LFOV)	EXCELSIOR MAX CEPH (LFOV)	EXCELSIOR ENDO
FEATURES					
FOCAL SPOT (mm)	0.5	0.5	0.5	0.5	0.2
VOXEL (µm)	75 µm - 400 µm	75 µm - 400 µm	75 µm - 400 µm	75 µm - 400 µm	48 µm - 200 µm
FOV	5x5, 9x6, 9x9, 16x9	5x5, 9x6, 9x9, 16x9	5x5, 9x6, 9x9, 16x9, 16x15 & 16x21	5x5, 9x6, 9x9, 16x9, 16x15 & 16x21	5x5, 9x6, 9x9, 14x9
CEPH	O	S	O	S	NA
kV	60-120	60-120	60-120	60-120	60-90
mA	3.2 - 16	3.2 - 16	3.2 - 16	3.2 - 16	1.8 - 4
SUPPLY VOLTAGE	110/127/220/240 AC	110/127/220/240 AC	110/127/220/240 AC	110/127/220/240 AC	110/127/220/240 AC
BITE BLOCKS	5 BITE BLOCKS AND 3 CHIN RESTS	5 BITE BLOCKS AND 3 CHIN RESTS	5 BITE BLOCKS AND 3 CHIN RESTS	5 BITE BLOCKS 3 CHIN RESTS	5 BITE BLOCKS 3 CHIN RESTS
CARPAL SUPPORT	NA	S	NA	S	NA
IMAGE PROGRAMMES					
SOFTWARE - LICENCES	SOFTWARE EYE (1 SERVER + 5 CLIENTS)	SOFTWARE EYE (1 SERVER + 5 CLIENTS)	SOFTWARE EYE (1 SERVER + 5 CLIENTS)	SOFTWARE EYE (1 SERVER + 5 CLIENTS)	SOFTWARE EYE (1 SERVER + 5 CLIENTS)
STANDARD PAN	S	S	S	S	NA
PEDIATRIC PAN	S	S	S	S	NA
FAST PAN	S	S	S	S	NA
MAXILLARY SINUSES	S	S	S	S	NA
TMJ	S	S	S	S	NA
BITE WING	S	S	S	S	NA
ENHANCED ORTHO	S	S	S	S	NA
MULTI SLICE	S	S	S	S	NA
2D FILTERS	S	S	S	S	NA
RESOLUTION	LD / STD / HD / UHD	LD / STD / HD / UHD	LD / STD / HD / UHD	LD / STD / HD / UHD	LD / STD / HD / UHD
SOFTWARE EAGLE EYE					
PATIENT AND EXAM MANAGEMENT	S	S	S	S	S
TWAIN	S	S	S	S	S
IMAGE MANAGEMENT	S	S	S	S	S
IMAGE POST-PROCESSING	S	S	S	S	S
EMAIL EXPORT	S	S	S	S	S
DICOM (IMPORT, SAVE AND SEND)	S	S	S	S	S
MEASUREMENTS AND ANNOTATIONS	S	S	S	S	S
PRINTING TEMPLATE	S	S	S	S	S
PREXION CONNECTION VIEWER CREATION, PACS COMMUNICATION AND DICOM WORKLIST	S	S	S	S	S
PREXION CEPH MANUAL TRACING	NA	S	NA	S	NA
VIMPLANT PLANNING	S	S	S	S	NA
CEPH IMAGE SIZE	NA	1: STD FULL + ADJUST 2: STD HALF + ADJUST	NA	1: STD FULL + ADJUST 2: STD HALF + ADJUST	NA
CEPH ARTIFICIAL INTELLIGENCE	O	O	O	O	O
SOFTWARE : PREXIONT CBCT					
MAR - ARTIFACTS REDUCTION	0/1/2/3	0/1/2/3	0/1/2/3	0/1/2/3	0/1/2/3
PMC - PATIENT MOTION CORRECTION	S	S	S	S	S
3D RECONSTRUCTION - CERA	S	S	S	S	S
3D VIEWER	S	S	S	S	S
ON DEMAND	S	S	S	S	S
UPGRADES					
TO CEPH	S	NA	S	NA	NA
TO 3D - LFOV	S	S	NA	NA	NA

COMPUTER REQUIREMENTS

For full performance, we recommend that your computer meet the minimum requirements shown in the table below for connecting to Prexion products.

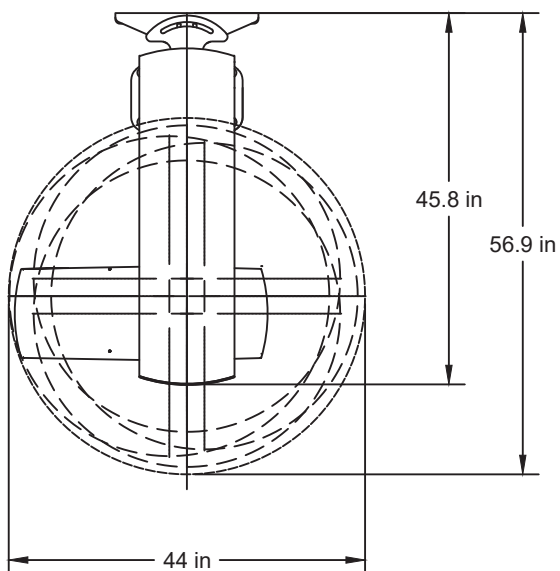
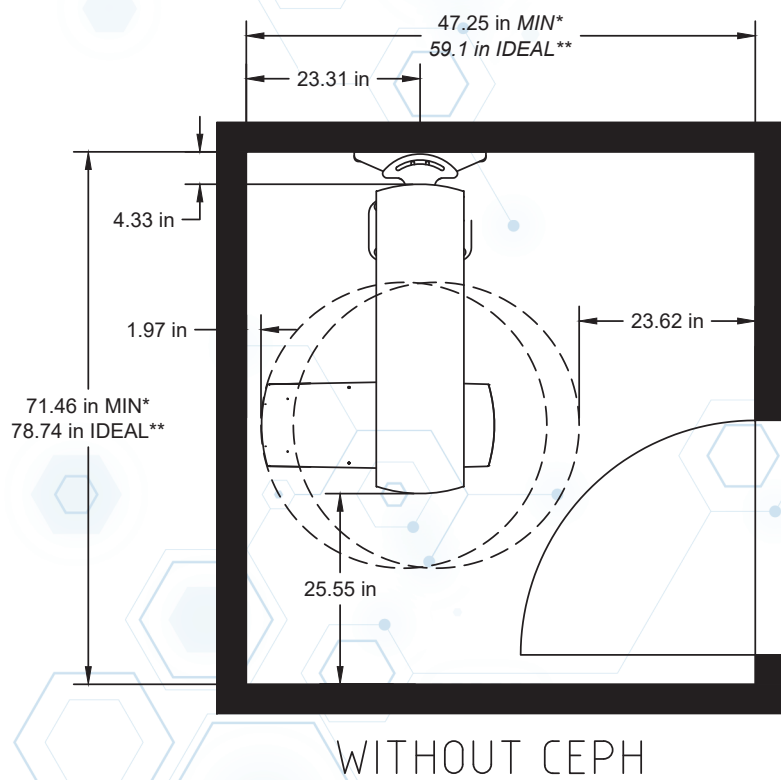
PRODUCT	2D	3D	EXCELSIOR ENDO
Operational System	Windows 10 64-bit Professional		
HDD	1 TB ou superior		
PCI Express	Slot PCI Express		
Dedicated Network Card	Gigabit Ethernet (1000Mb/s), JumboPacket 9KB (Tp link TG-3468, Realtek RTL8125, Intel i350-TI, Intel Gigabit CT, PCE-1G-01-LP)		
Monitor	Resolution 1920x1080		
CPU	Intel Core i5 Gen 10 Cache 12 MB 4.0 GHz or superior	Intel Core i7 Gen 10 Cache 12 MB 4.0 GHz or superior	
PROFILES	400W or superior*	500W or superior*	
VIDEO CARD		Nvidia GeForce RTX 4060 8GB or superior	Nvidia GeForce RTX 4070 12GB or superior
RAM	8 GB	16 GB	32 GB

*Compatible PCI Express video card connectors.

RECOMMENDED ROOM SIZE

Prexion Excelsior and Evolve Line

Extraoral Image - Evolve Line





Brand
alliage

www.prexion.com

[@prexionusa](#) [prexioncbct](#)

Excelsior Prexion is a brand of the AXR Dental CT Scanner, registered under Anvisa (Brazilian Health Regulatory Agency) number 10101130088. Dental Imaging Software - Eagle Eye: Anvisa number 1010113009.

Equipment assembly must be paid for by the purchaser (client) and performed by a certified technician. The packaging must remain sealed until the technician arrives; tampering with the packaging will void the product warranty.

Images are for illustrative purposes only; colors may vary due to graphic reproduction. Alliage S/A, Prexion reserve the right to make changes to the design and technical specifications of the products, always with prior authorization from ANVISA, in order to continue improving them.

Revision: Oct/2025