eagle edge

EXPERIENCE AT THE CUTTING EDGE

Including an exclusive Dabi Atlante's technology and a new image processing algorithms, Dental CT Scanner AXR Eagle Edge is prepared for high patient flow and redefines innovation cutting edge, capturing images with greater precision and delivering the most accurate diagnosis, with a performance that will surprise the most experienced professionals.

EAGLE EDGE HAS 5 AVAILABLE VERSIONS

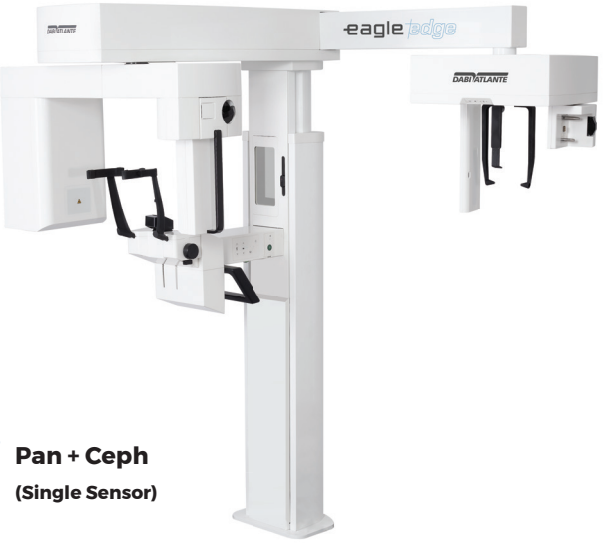
- Pan
- Pan + Ceph (Single Sensor)
- Pan + Ceph (Two Sensors)
- CBCT + Pan
- CBCT + Pan + Ceph

Eagle Edge is an Alliage brand of the AXR Dental Tomograph as registered by Anvisa 10101130088.

UPGRADABLE VERSIONS

Eagle Edge is designed to allow upgrades between its versions.

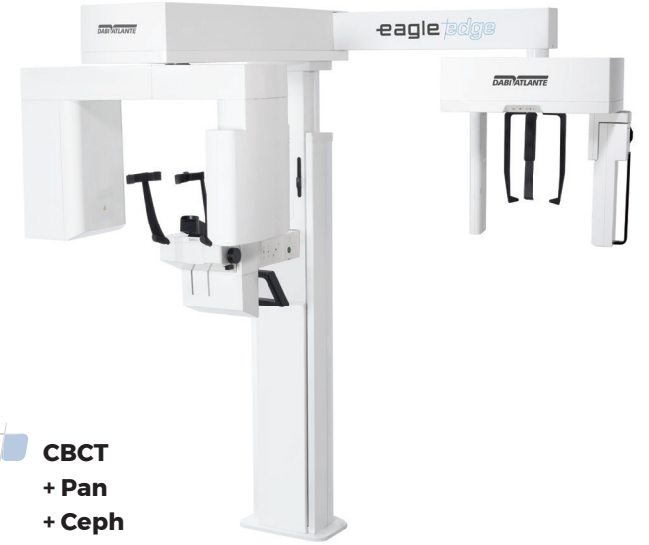
Pan



Pan + Ceph
(Single Sensor)

Pan + Ceph
(Two Sensors)

CBCT + Pan



CBCT
+ Pan
+ Ceph

PRODUCTIVITY AND USABILITY

High patient flow clinic demands an equipment capable of delivering productivity and usability.

Eagle Edge is designed to provide the best workflow experience to all dentists.

LARGE FOV IMAGES WITH A SINGLE CAPTURE

The automatic movement of the chin support allows large FOV images (15HX16Ø and 21HX16Ø) to be performed in continuous operation, avoiding patients repositioning, minimizing position deviations between individual captures.

Single-sequence capture associated with automatic stitching and PMC (Patient Motion Correction) generates high-quality images by minimizing artifacts and drastically reducing capturing and processing time of the image.

MOVEMENT IN ALL 3 AXES

The state-of-the-art movement system includes three axes(two orthogonal directions and one rotating direction) allowing greater flexibility in radiographic profiling, optimization in the cutting plane thickness and constant vertical magnification.

STABILITY AND USABILITY

Eagle Edge has new head positioners with 4 support points for better patient stability during exams.
Simple use and easy positioning, these exclusive head positioners were designed to facilitate the clinical routine, making a faster clinic flow.

DICOM SEND

Dicom Send tool, included in Eagle software, allows the instant sending of the images generated by the equipment to image storage and sharing systems in physically different locations.

V-BEAM - VARIABLE CONE-BEAM

Exclusive Eagle's Variable Cone Beam technology guarantees high definition in images with FOV of 5x5Ø, 6x9Ø and 9x9Ø as well as allowing the capture of larger images. Eagle Edge is the complete solution for 3D diagnostics, especially in applications of endodontics, implantology and orthodontics.

6 FOV'S - FIELD OF VIEW IMAGES

5x5 - ENDO
Small FOV optimized for local diagnosis single implant planning, extraction of the 3rd molar and endodontics procedures.
Maintains a reduced level patient exposure dose.

6X9 - UPPER/ LOWER JAW
Allows upper, lower jaw or TMJ (2 captures) images.

9X9 - FULL JAW
Covers full jaw and rami.

9X16 - EXTENDED JAW
Allows upper jaw, lower jaw, respiratory tract, sinus and TMJ's in same image visualization.

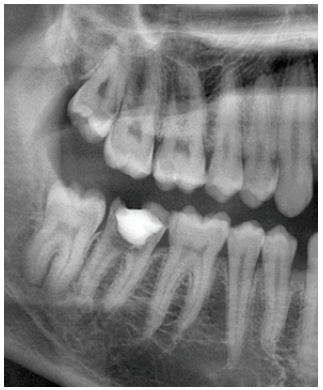
15X16* - SKULL
Ideal for orthodontics, it allows the diagnosis of the entire maxillary facial region.

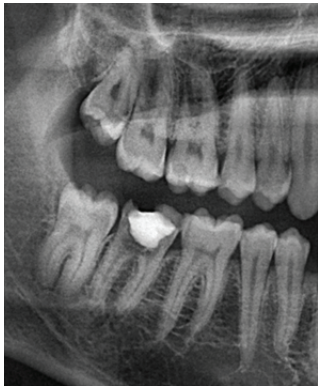
21X16* - SKULL
Ideal for orthodontics, it allows the diagnosis of the entire maxillary facial region.

*Through vertical merger of multiple records.

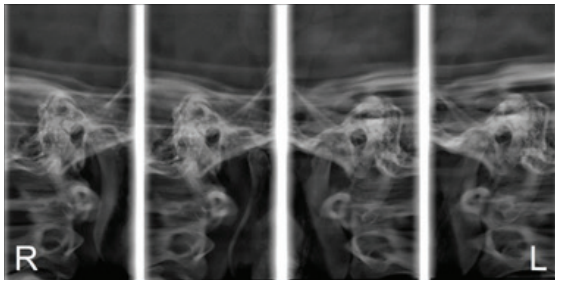
IMAGING PROCESSING

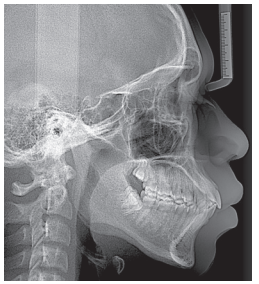
A high quality and high degree of reproduction of the generated images are necessary for an accurate diagnosis, because of this, continuous improvement in the quality of image processing is invested.





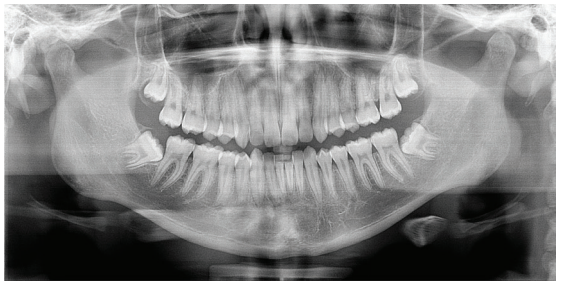
EAGLE SMART CONTRAST





Innovative algorithm that works in all image regions, treating and improving the contrast of each area individually. The result is a homogeneous and noise-free image, allowing for details visualization and, consequently, better diagnosis.

EAGLE SMART EYE



During a panoramic radiography capture, hundreds of images are generated and combined into a final image. The Eagle Smart Eye software features an innovative function (algorithm) that scans all processed images, seeking the best definition of focus in order to deliver a final image with great wealth of details and definition image, especially in the region of incisors, canine, TMJ and root conduits.

CBCT WITH TUBE VOLTAGE REGULATION

Dental CT Scanner AXR offers two models with tube voltage of 90kV and 120kV.

The 120kV operation associated with special radiation filters produces beams with higher average level energy, reducing photons with lower energy, which provides two benefits:

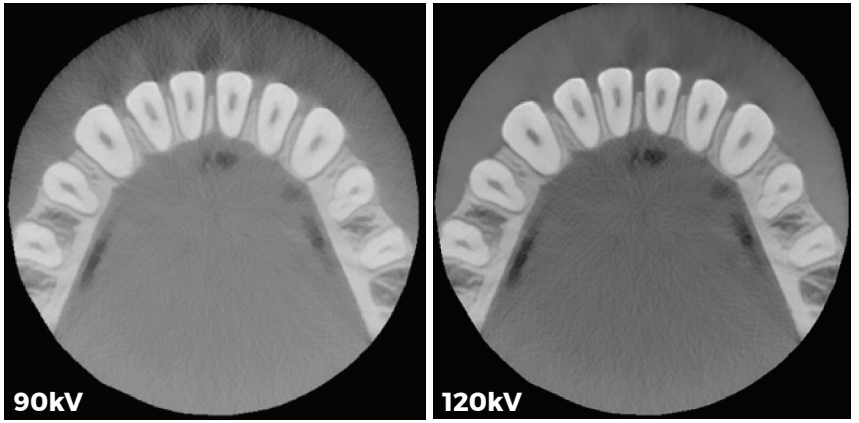
1) Less image artifacts resulting from the reduction of Beam Hardening in the patient;
2) Reduces the production of low energy beams, providing a better image.

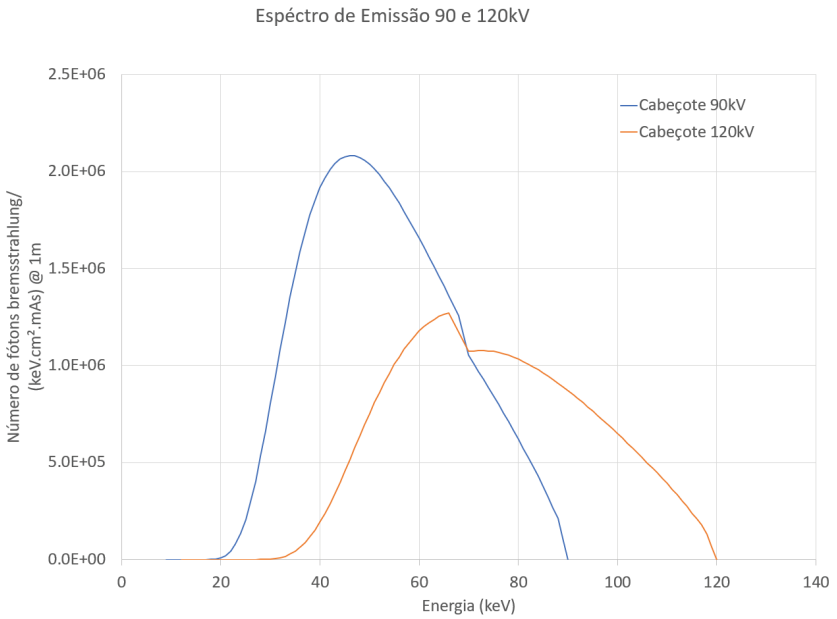
75 µM ULTRA HIGH RESOLUTION

Eagle Edge has variable resolutions with Voxel Isotropic between 75 and 400 micrometers, including automatic adjustment in relation to the size and resolution of the volume.

LOW DOSE

All sizes of FOV offer the option of taking low radiation doses, reducing the exposure time and ensuring the capacity of certain clinical diagnoses.

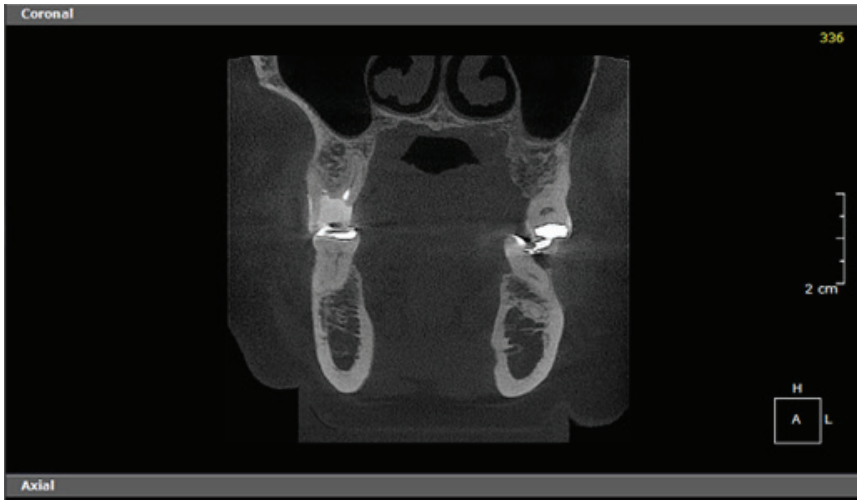


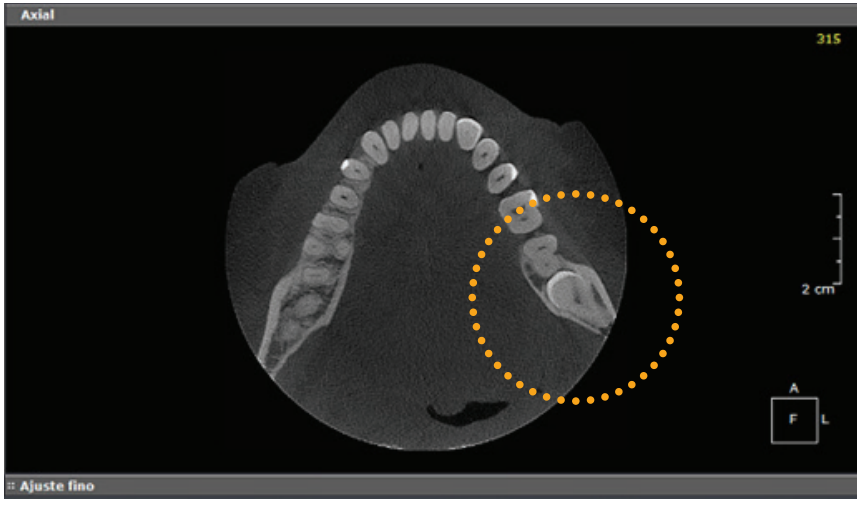


The 120kV x-ray emission provides the reduction of low energy photons, from 20 to 50kV, knowed by soft x-rays. This reduces the amount of dose absorbed by the patient because such photons do not reach the sensor. There is also the generation of photons with greater energy, up to 120kV, these contribute to the generation of better quality images.

EXPANDED FIELD OF VIEW

With the addition of new FOV format on 9x9 scale, the expanded field of view brings the benefit of registering the 3rd molar, even in a horizontal position along the axis.



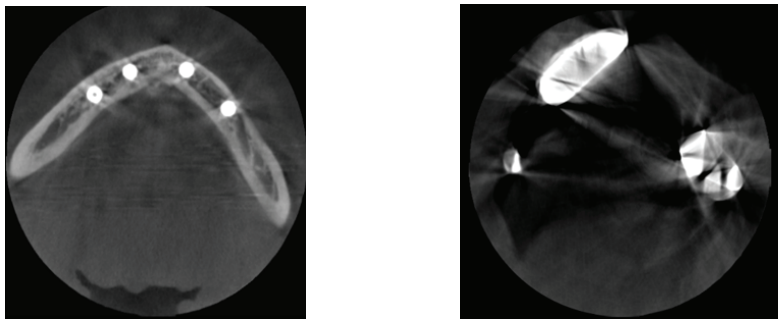


CBCT RECONSTRUCTION WITH AUTOMATIC STITCHING

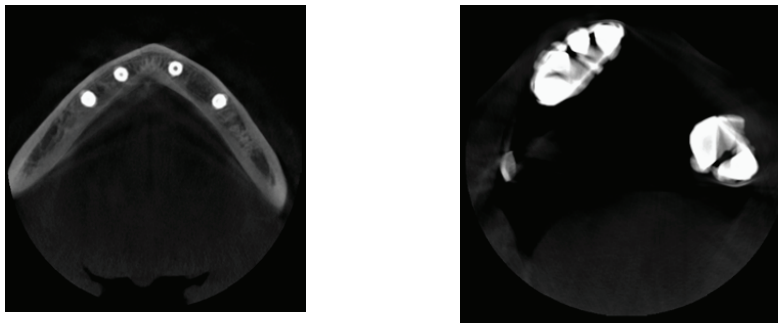
Eagle Edge is able to perform automatic stitching in CBCT reconstruction, reducing the time of reconstructions in the image fusion proccedure and delivering a superior final result.

REDUCTION OF METALLIC ARTIFACTS

Eagle Edge offers image processing feature that can be chosen to correct deformations of gutta-percha, implants and/or large prostheses and metallic restorations, in addition to automatic metal reduction.
This feature also allows image reprocessing for a better diagnosis without the need to generate new exposure.



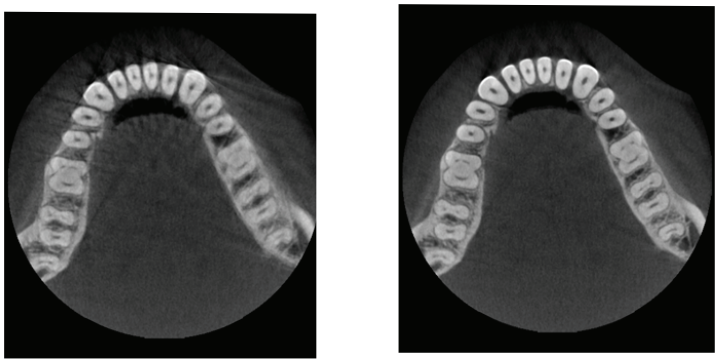
Without Correction



With Correction

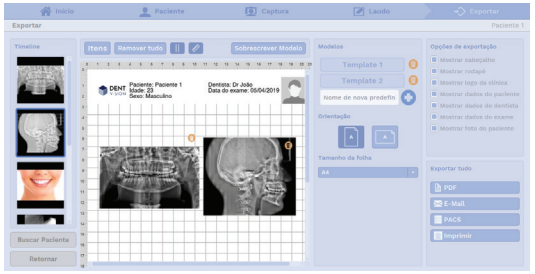
PATIENT MOTION CORRECTION

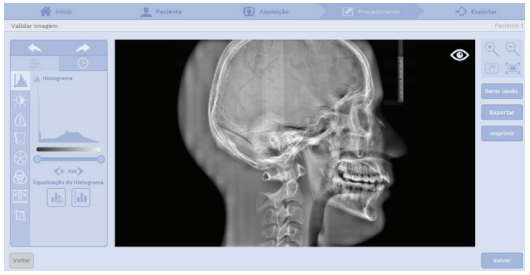
During capture procedure, the patient's micro movement is common, so that the final result of the exam may be impaired.
Eagle Edge algorithm automatically corrects the image, ensuring the best quality of the exam, avoiding repetitions and offering greater accuracy for making diagnoses.

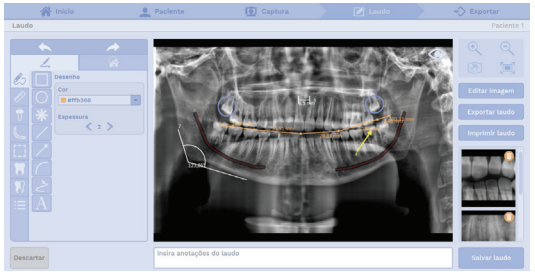


eagle eye

Eagle Eye is a software focused on usability and exams performance gains in generating reports, it assists professionals in the “Less Clicks as possible” premise, facilitating the patient flow.





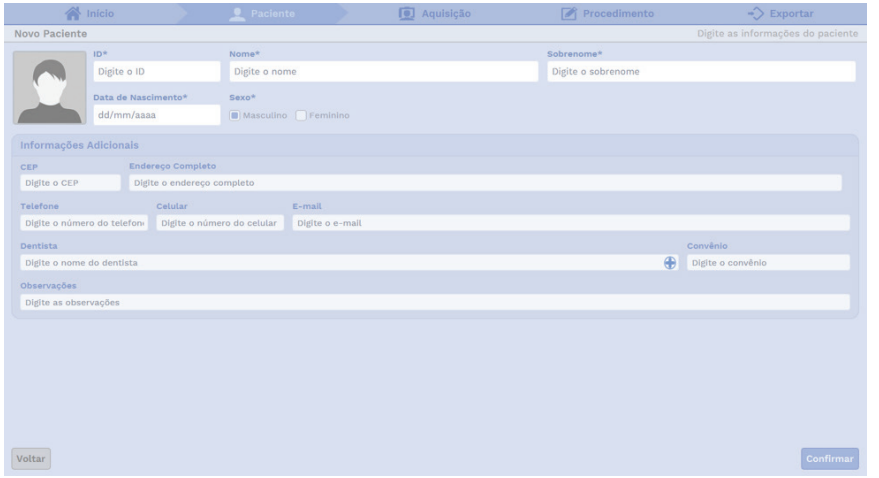


FOCUS ON PROFESSIONAL’S USABILITY

“LESS CLICKS AS POSSIBLE”

PATIENT REGISTRATION

Simple and intuitive, can be applied to register users and dentists.



PATIENTS’ SEARCH FEATURE

Focus on usability, can be applied to search for users and dentists.

PATIENT TIMELINE

Exams arranged chronologically in the patient record, in order to facilitate to get exam history.

eagle eye

PATIENT IMAGE VIEWER

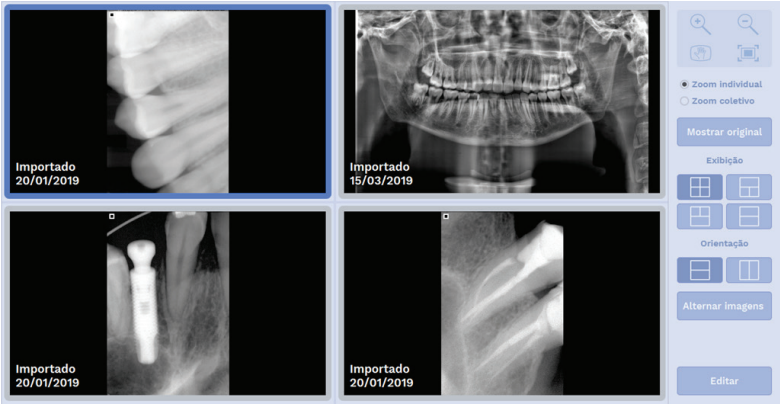
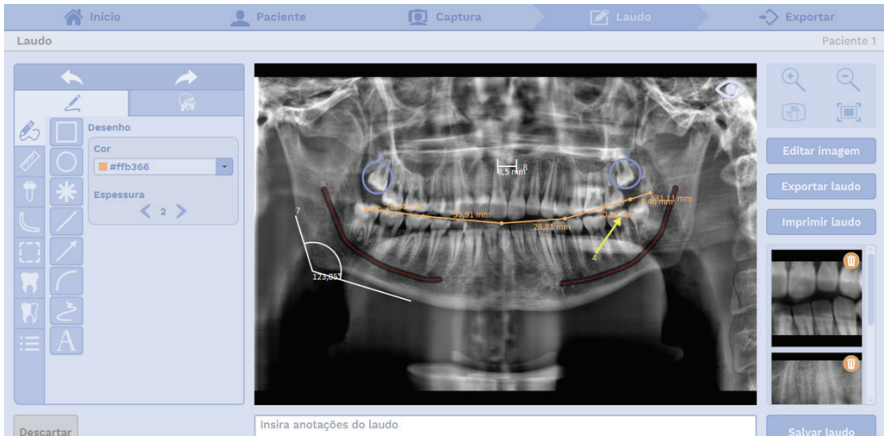


IMAGE EDITION

Offers a wide range of friendly usable tools such as zoom, brightness, contrast and gamma, positive/ negative, color adjustment, text insertion, arrows, circles, selection and cropping of areas, among others.

REPORT GENERATION

Create reports in a structured way with easy access to editing tools for notes insertion.



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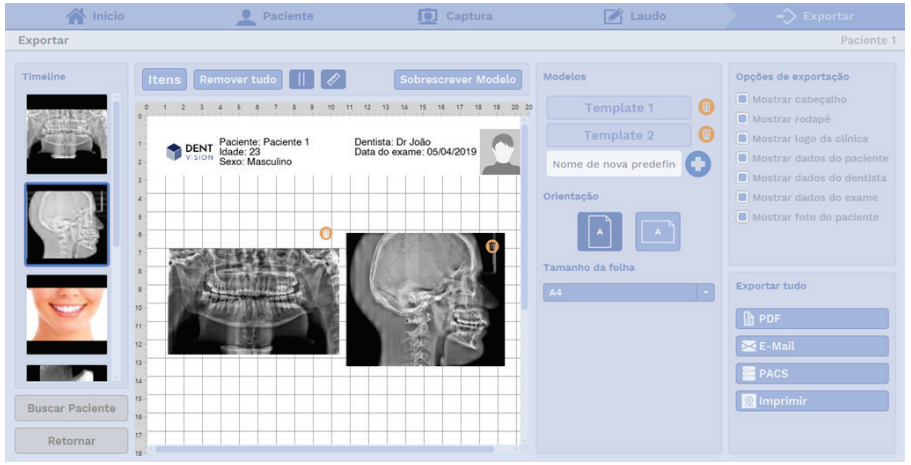
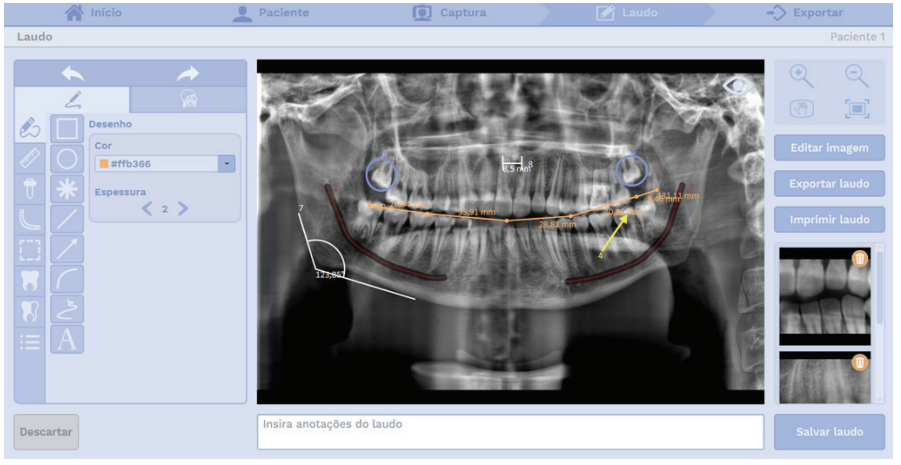
PRINT TEMPLATE

Create and standardize templates for printing and exporting reports in a quick and personalized way.



EXPORTING REPORTS AND EXAMS

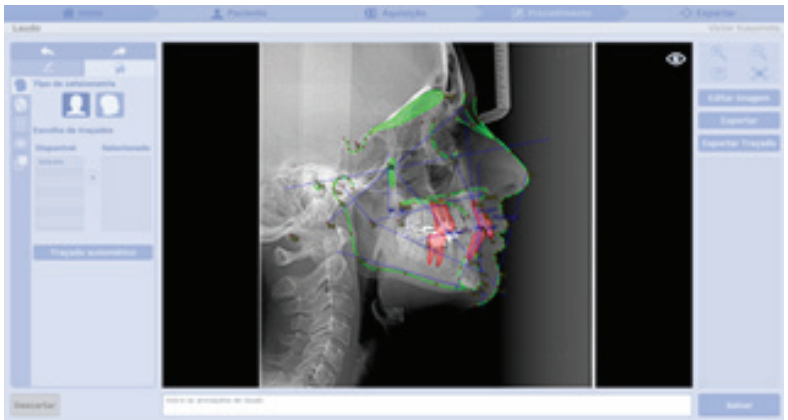
Share your reports and exams through the Eagle Eye in a simple, fast and secure way, whether by e-mail, server database software or recording on disc.

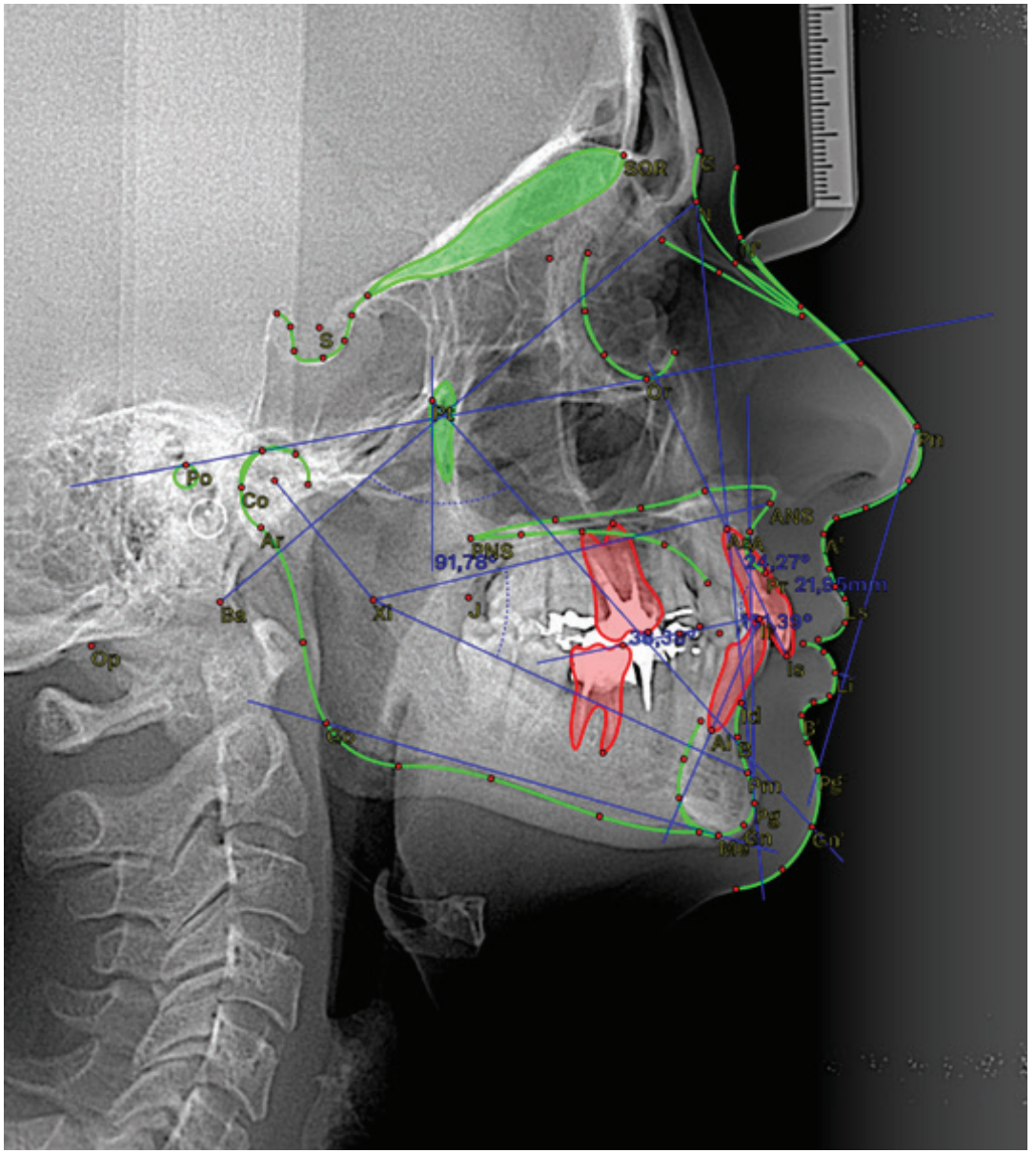


eagle eye

ARTIFICIAL INTELLIGENCE

Eagle Eye features an Artificial Intelligence system for cephalometric analysis.
Through an exclusive algorithm, the software performs the reading and marking of the plot points according to the most different standards (MCNAMARA, USP, Ricketts, Steiner, Rocabado, Tweed, among others).





SOFTWARE
OnDemand3D DENTAL

The Eagle Edge line leaves the factory with the OnDemand3D Dental software, the most widely used in the world for its user-friendly interface, resource availability, processing speed and security.

REPORT

OnDemand3D™ makes reporting easier and simpler for clinicians by offering various templates for every use. Design your own report template with the X-Report Template Designer and simply drag-and-drop captured images. Reports can be saved both in the database and onto the computer in HTML, PPT or PDF format.

STITCHING

Stitch multiple volumes of DICOM data seamlessly with OnDemand3D Fusion technology. OnDemand3D Fusion technology has been clinically proven to provide accurate results.

3D SEGMENTATION

Segment the mandible, any number of teeth, airways and more with advanced visualization options on OnDemand3D™. One of our most powerful features is 3D segmentation and what makes it even better is that it is easy to use. Segmentation can be done based on the range of density values or based on connected regions with just a few mouse clicks.
Each segmented area can be saved as a new object, enabling you to assign different colors to each object.

CONVERTER EM STL

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

TECHNICAL SPECIFICATION

GENERAL INFORMATION

Product Name	**Dental CT Scanner AXR**	
Model	**AXR90**	**AXR120**
Tube Voltage	**60 ~ 90kV**	**60 ~ 120kV**
Tube Current	Between 3.2 to 16 mA	
Nominal Focal Point	0.5 mm	
Generator	high frequency	
Supply voltage	110/127/220/240 VAC 50/60 Hz	
Power Consumption	1.7 kVA	

CBCT

FOV (height x diameter)	5x5 cm 6x9 cm 9x9 cm 9x16 cm 15x16 cm* (opcional) 21x16 cm (opcional)
Programed doses time	LD – 10s STD – 15s HD – 20s UHD – 25s
Voxel	Between 75 to 400 µm
Voltage Emission / Current Emission	90kV - 3.2~12,5mA 120kV - 3.2~8mA *
Sensor technology	CMOS/Amorphous Silicon
Reconstruction time	Between 18s a 1m30s

CEPHALOMETRIC RADIOGRAPHY

Profiles	AP/PA, LL, Carpal, Oblique: from 4.1 to 16.5s Fast mode: from 2.5 to 10s
Voltage Emission / Current Emission	60~70kV - 3+2~16.0mA 72.5~80kV - 3.2~14.0mA 82.5~90kV - 3.2~12.5mA
Sensor technology	CMOS

PANORAMIC RADIOGRAPHY

Profiles	Standard: 14s
	TMJ: 10 s
	TMJ PA: 10s
	Fast Panoramic: 10s
	Infant: 10s
	Improved Orthogonality: 14s
	Lateral section (left or right): 6s
	Center Section: 3.5s
	Bitewing: 7.6s
	Maxillary Sinus: 8s
Emission Voltage / Emission Current	60~70kV - 3.2~16.0mA
	72.5~80kV - 3.2~14.0mA
	82.5~90kV - 3.2~12.5mA
Sensor technology	CMOS

COMPUTER REQUIREMENTS

For full performance we recommend that the computer conected to Eagle products line equipment follow the minimum configuration recommendations presented in the table below:

Eagle Product	**PAN | CEPH**	**CBCT**
Operational System	Windows 7 64-bit Professional Windows 10 64-bit Professional	
CPU	Intel i5 3.0 GHz or higher	Intel i7 3.6 GHz or higher
HDD	500 GB or higher	500 GB or higher
RAM	8 GB	16 GB
PCI Express	Slot PCI Express	Slot PCI Express
Network card	Dedicated Gigabit Ethernet	Dedicated Gigabit Ethernet
Grafics card	-	NVIDIA GTX 1060 6GB or higher
USB 2.0	One free USB port	Two free USB ports

DABI ATLANTE

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