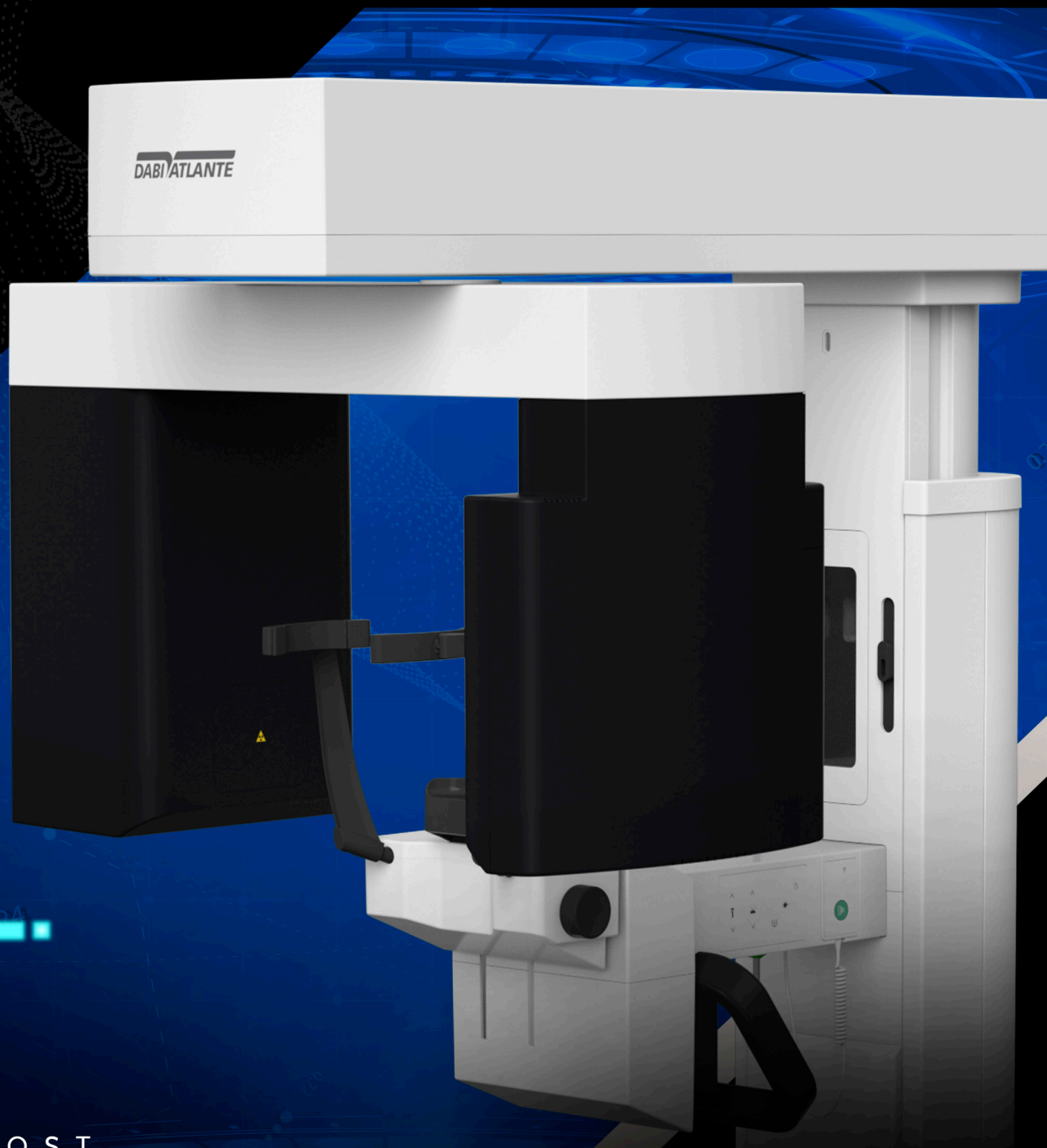# eagle edge

3D CBCT | PAN | CEPH

THE MOST
COMPREHENSIVE
SOLUTION MULTIPLE
POSSIBILITIES

DABI ATLANTE

EAGLE EDGE - DENTAL TOMOGRAPH
AXR90/AXR120

Eagle Edge is a Dabi Atlante brand. AXR Dental Tomograph, as registered by ANVISA: 10101130088

With exclusive technology from Dabi Atlante and innovative algorithms, the Eagle Edge is prepared for high flow demands, being able to provide a complete solution in a single product. Equipment with intelligence, precision and more accurate diagnosis, with a performance that will amaze the most demanding professionals.
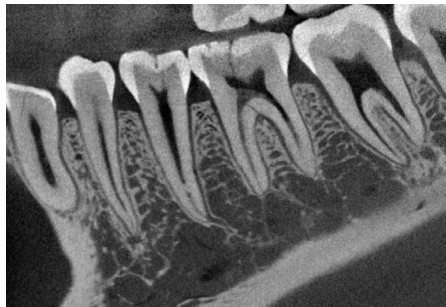
EAGLE EDGE
0.2 FS

High definition images:

· 0.2 focal point, which generates
  impressive images
· Horizontal x-ray beams for reduction
  of metal artifacts
· 3 FOV options 5X5 6X9 9X9
· 360° scan
· Voxel 75μm
· Sensor with high quantum efficacy
· PMC: Patient Movement Correction, more
accurate images with the reduction of
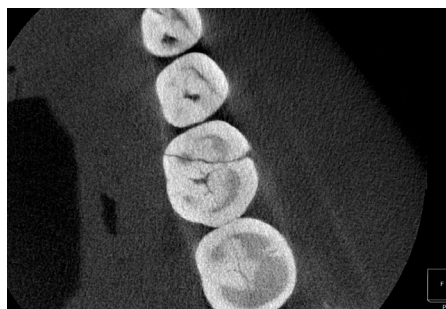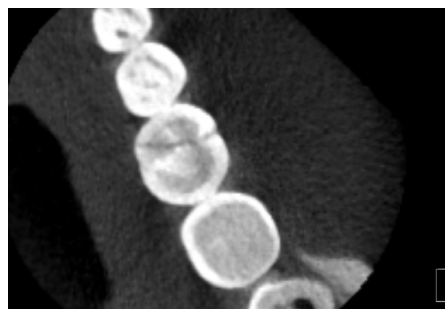micromovement artifacts.

FOCAL POINT 0.2

FOCAL POINT 0.5

FOCAL POINT 0.2

FOCAL POINT 0.5

HORIZONTAL X-RAY BEAMS
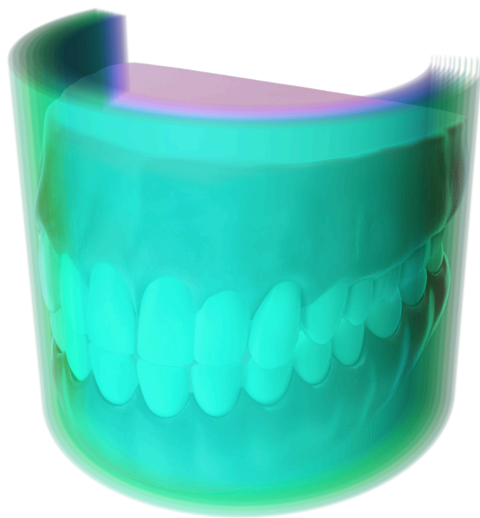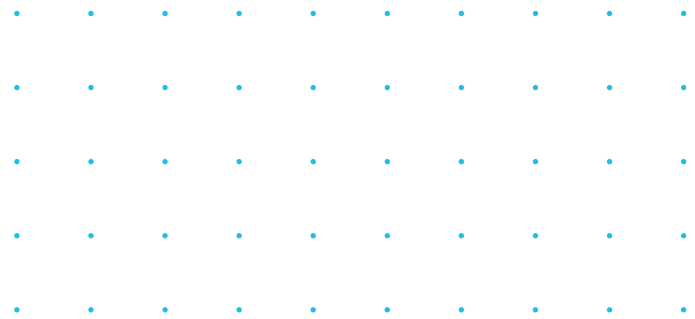
EAGLE EDGE
MULT SLICE

Presenting the new sensor which has fiber optic layer in its composition, reducing the noise that ensures a higher resolution.
This new configuration enables the possibility to navigate between 41 panoramic cuts to view the structures you want.
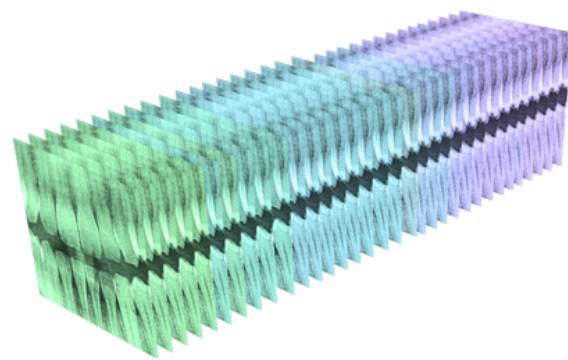It has 4 optimized fi lters: Low noise, Standard, HD and UHD.
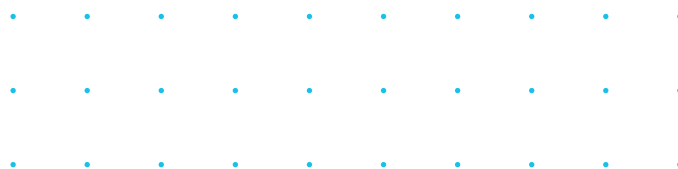
3 setup options:
Pan
Pan + Ceph
Pan + Ceph (2 sensors)

**PLAN MOBILITY
CUTTING**

MULTILAYER 41 LAYERS
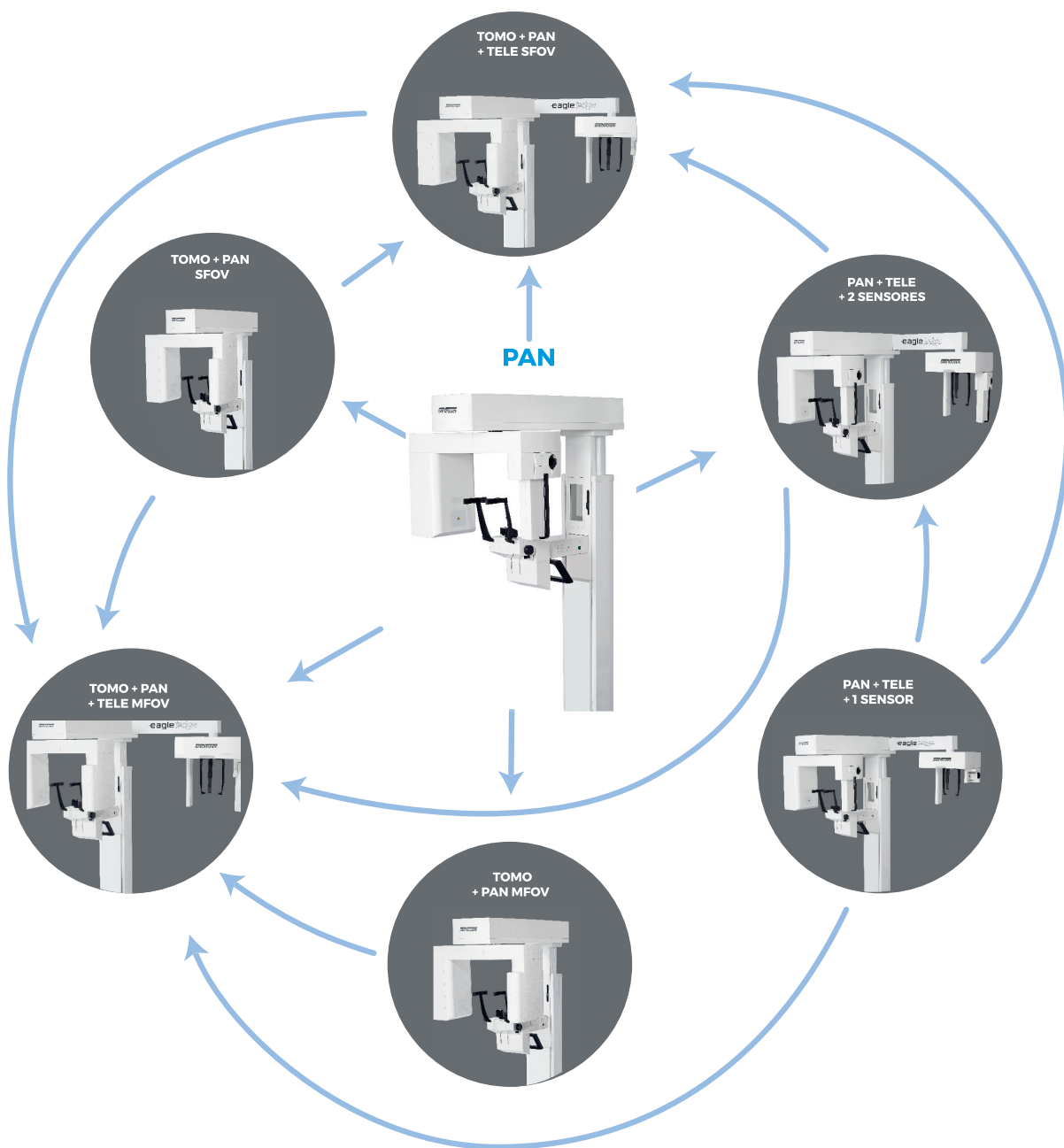
UPGRADE BETWEEN SETTINGS:
7 POSSIBILITIES

EAGLE EDGE GIVES YOU THE OPPORTUNITY TO MAKE UPGRADES ACCORDING TO YOUR NEEDS, WITHOUT LOSING YOUR INITIAL INVESTMENT.

TOMO + PAN + TELE SFOV

TOMO + PAN SFOV

PAN

PAN + TELE + 2 SENSORES

TOMO + PAN + TELE MFOV

PAN + TELE + 1 SENSOR

TOMO + PAN MFOV

Tomo SFOV: 5x5, 6x9 e 9x9
Tomo MFOV: 5x5, 6x9, 9x9, 9x16, 15x16 e 21x16

IMAGES
CLINICAL

STANDARD PAN

TMJ

CHILDREN PAN
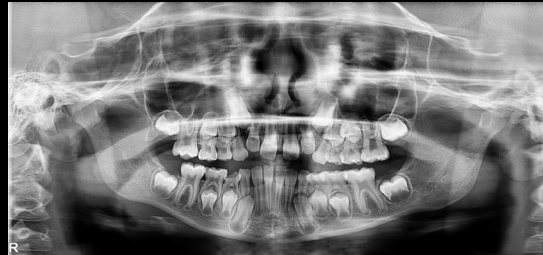
BITEWING

CEPH PROFILE
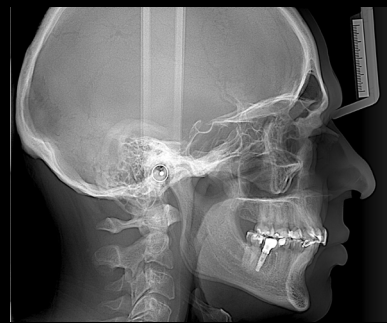
CARPAL

PA CEPH

FOV: 5X5

5x5Ø – ENDO

Small FOV optimized for local diagnosis, such as single implant planning,
3rd molar extraction and endodontic procedures, with a resolution of 85μm for Eagle
Edge and 75μm for Eagle Edge 0.2 FS. Keeps the patient's exposure dose at a significantly
reduced level.

FOV: 6X9

6X9Ø – UPPER OR LOWER JAW

It allows viewing 1 arch (maxilla or mandible)
or ATM (Left or Right Condyle separately).

FOV: 9X9
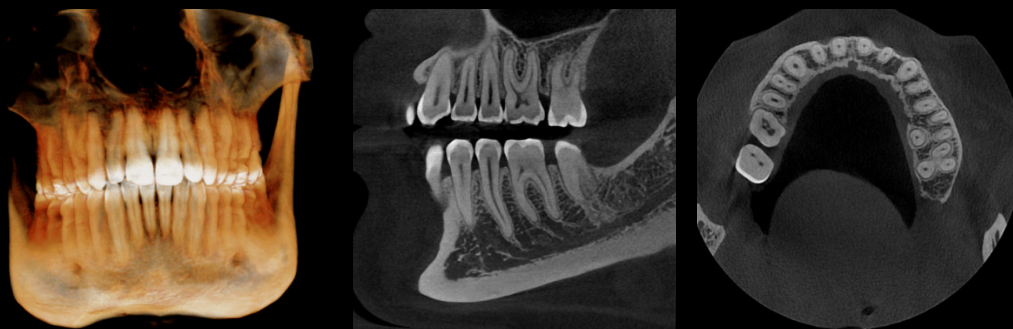

9X9Ø - UPPER AND LOWER ARCH

Covers both arches, including the mandible, maxilla and ramus.

FOV: 9X16

9X16Ø - EXTENDED ARCHES

Allows the visualization of the mandible, maxilla, airway, sinuses and TMJ (closed and/or open) in a single shot.

FOV: 15x16
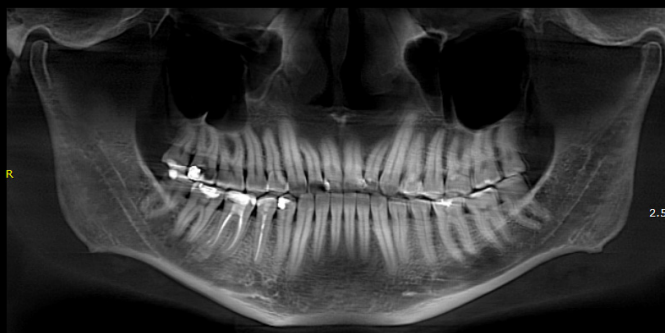
15X16Ø* - SKULL

Ideal for orthodontics and orthognathic surgery. Allows diagnosis of the entire maxillofacial region.

FOV: 21X16

21X16Ø* - FULL FACE

Ideal for orthodontics, allows diagnosis of the entire maxillofacial region.

The 5x5, 6x9 and 9x9 fovs refer to the Eagle Edge 0.2 FS.
The 9x16, 15x16 and 21x16 fovs refer to the Eagle Edge Tomography.

UP TO 6 VOLUMES
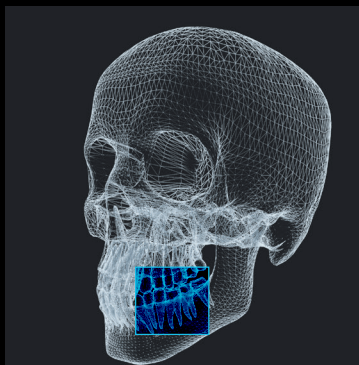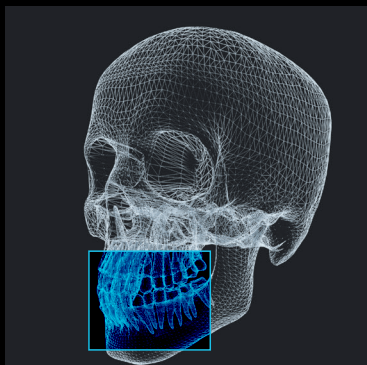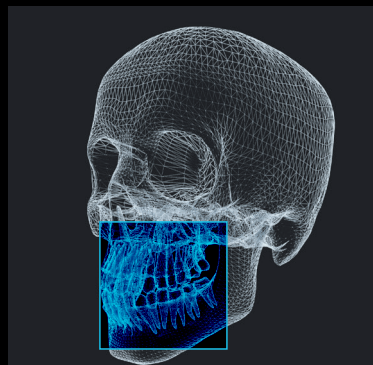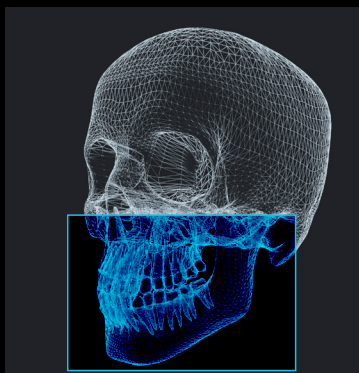## SERVING EACH
CLINIC SPECIALTY

5x5Ø

6x9Ø

9x9Ø

9x16Ø

15x16Ø
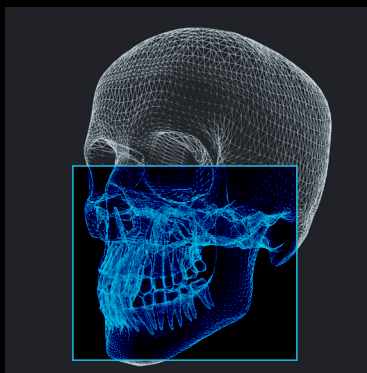
21x16Ø
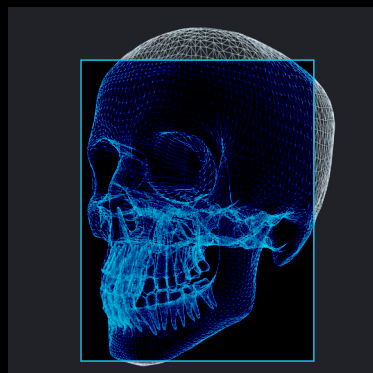
3 AXIS
MOVEMENT

The state-of-the-art movement system comprises three axes (two orthogonal directions and one rotation), which allows for greater flexibility in the preparation of radiographic profiles, optimization of the thickness of the cutting plan and constant vertical expansion.

SENSOR
CMOS

The Eagle Edge sensor uses CMOS technology made up of millions of photosensitive transistors that are responsible for capturing the photons that make up an image. This sensor directly converts the signals, sending all digitized information directly to the image processor. CMOS technology provides better image quality, high performance and low cost.

EASY PATIENT POSITIONING

The Eagle Edge has new head positioners with 4 support points for better patient stability during exams. The set of head positioners was designed to facilitate clinical routine, so that execution in sequence is faster.

V-BEAM - VARIABLE CONE-BEAM

The Variable Cone Beam, an exclusive technology developed for the Eagle, ensures high definition in images with 5x5Ø, 6x9Ø and 9x9Ø FOV (SFOV sensor), as well as allows the capture of larger images by adding 9x16Ø, 15x16 FOV options Ø and 21x16Ø (MFOV sensor). Eagle Edge is the complete solution for diagnostics in three dimensions, especially in endodontic, implant and orthodontic applications.

## *LARGER FOV IN A SINGLE SEQUENCE AND AUTOMATIC STITCHING (15Hx16Ø and 21Hx16Ø)

The movement of the chin support allows large FOV tomographic images to be performed in continuous operation, thus avoiding the repositioning of patients, which minimizes position deviations between individual captures. Single-sequence capture associated with Automatic Stitching (automatic volume merging) and PMC (Patient Motion Correction) generates high quality images, minimizing artifacts and reducing image capture and processing time.

PRODUCT WITH DIFFERENT TUBE VOLTAGES

The AXR Dental Tomograph offers two tube voltage models: 90 kV and 120kV, the first being the Pan and Tele models, and the second being the Tomo model. The 120 kV operation associated with special radiation filters produce beams with higher average energy, reducing photons of lower energy, which provides two benefits:

1 Less artifacts in the image due to the reduction of Beam Hardening in the patient

2 Reduces the production of low energy beams, providing an image with better definition
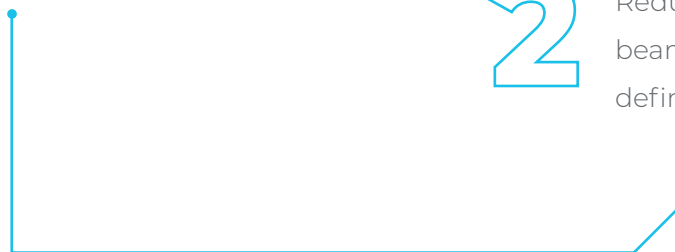
EAGLE EYE

During a panoramic radiograph, hundreds of images are generated and merged into a final image. The Eagle Eye software features an innovative function (algorithm) that scans all processed images, seeking the best focus definition in order to deliver a final image with greater detail and definition, especially in the incisor and canine region , TMJ and root canals.

Ultra-HD MODE FOR ENDODONTICS

The Eagle Edge has different resolutions with Isotropic Voxel between 85μm for Eagle Edge and 75μm for Eagle Edge 0.2 FS, with automatic adjustment regarding the size and volume resolution.
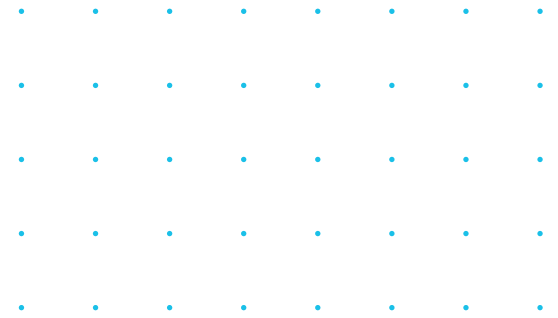
LOW DOSE

All FOV sizes offer the option of low radiation dose shots, shortening exposure time and ensuring the capability of certain clinical diagnoses. The 120kV emission provides the reduction of low energy photons, from 20 to 50kV, called soft rays. This reduces the amount of dose absorbed by the patient, as these photons do not reach the sensor. There is also the generation of photons with higher energy, up to 120kV, which contributes to the generation of better quality images.
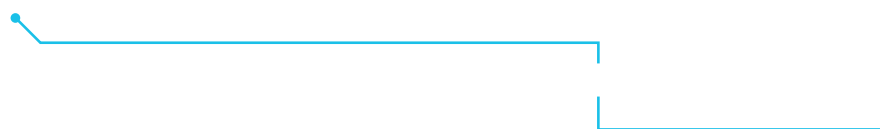
REDUCTION OF METALLIC ARTIFACTS - MAR

Eagle Edge features options with processing levels that can be chosen to correct gutta-percha deformations, oversized implants and/or dentures, and metallic restorations, in addition to automatic metal reduction.

This feature also allows the reprocessing of the image for a better diagnosis without the need to generate a new exposure to the patient.
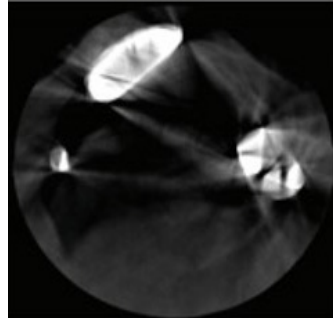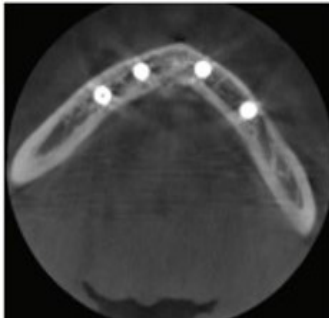
WITHOUT CORRECTION
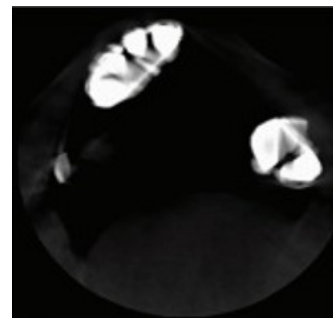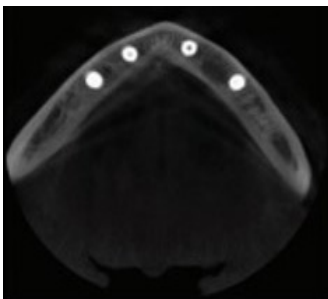
WITH CORRECTION

PATIENT MOTION CORRECTION

During the performance of exams, the patient's micro-movement is common, so that the final result of the exam may be impaired. The Eagle Edge algorithm automatically corrects the image, ensuring the best quality of the exam, avoiding repetitions and offering greater acuity for making a diagnosis.

MANAGEMENT SYSTEM -
EAGLE EYE SOFTWARE

Eagle Eye is a software focused in usability ,that examines performance gains in reporting and assists professionals in using the "less clicks as possible" premise of patient flow.

Dental Imaging Software - Eagle Eye: Anvisa 10101130091

REGISTRATION

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

SEARCHING

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

COMMUNICATION

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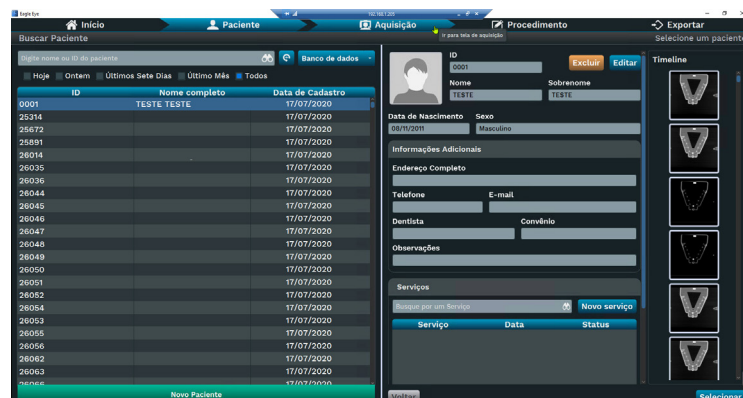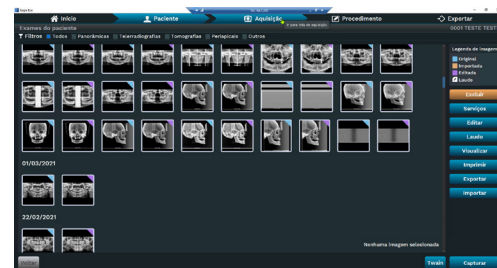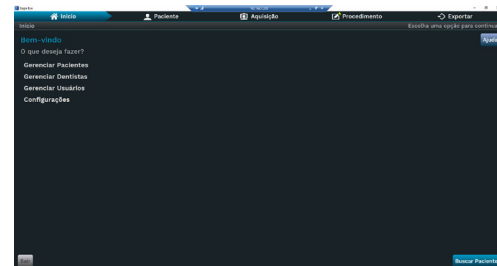
IMAGE PROCESSING

The quality and high level of reproduction of the generated images are necessary for an accurate diagnosis, that's why we continually invest in improvements in the quality of image processing.

EAGLE SMART CONTRAST

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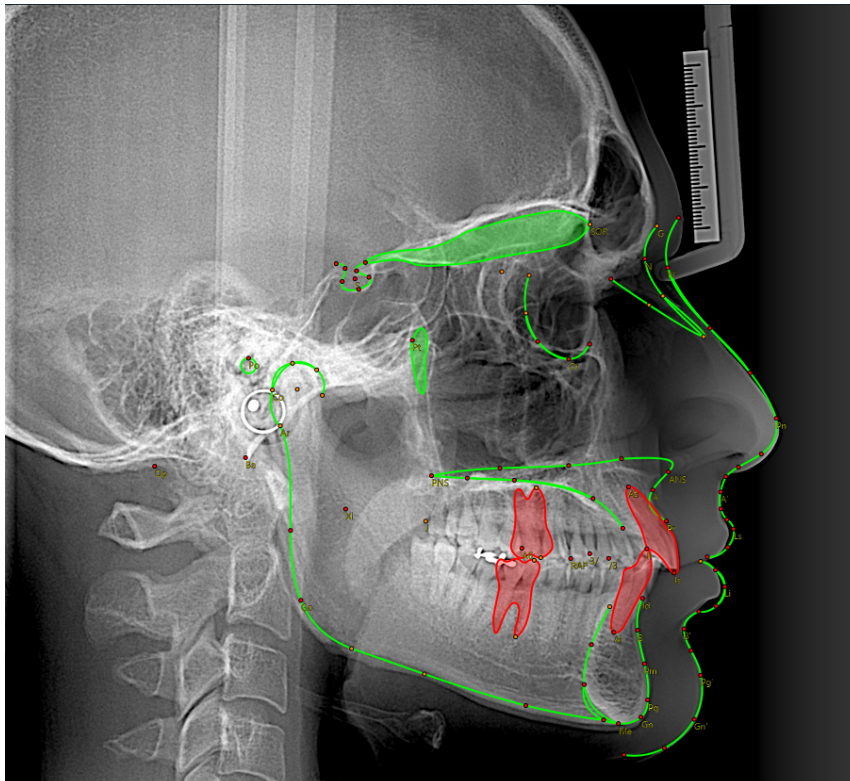
INTELIGÊNCIA ARTIFICIAL*

Applying scientifically recognized protocols, Artificial Intelligence in Eagle Edge accelerates productivity in complex analyzes and adds efficiency to your business. Protocols (McNAMARA, USP, Ricketts, Steiner, Rocabado, Tweed, among others).

*The Artificial Intelligence module is sold separately.

SOFTWARE LINEUP

OnDemand3D DENTAL

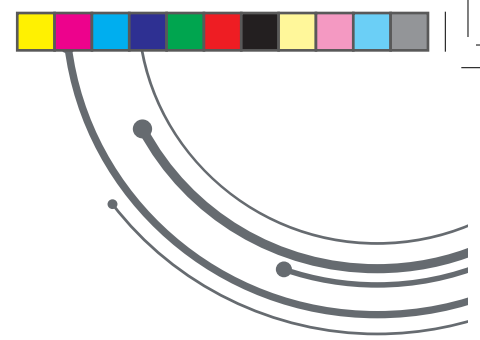The Eagle Edge line leaves the factory with the OnDemand3D Dental, that is world´s most widely used software , for its friendly interface, availability of resources, processing speed and security.

REPORT

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

3D SEGMENTATION

Segment the jaw, choose the number of teeth, airway and more with advanced visualization options in OnDemand3D™. One of the 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 on connected regions with just a few mouse clicks. Each segmented area can be saved as a new object, allowing you to assign different colors to each object.

CONVERT TO STL

Convert DICOM data to STL data using OnDemand3D™ for use in CAD/CAM software and 3D printers.
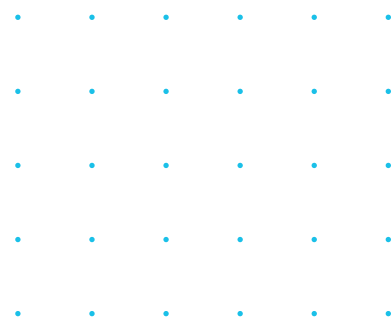
TECHNICAL SPECIFICATION eagle edge

GENERAL INFORMATION

Product Name	Dental CT Scanner AXR		
Model	AXR90	AXR120	AXR90
Configurations	Panoramic only Panoramic with Cephalostat** Panoramic Mult Slice Panoramic Mult Slice with Cephalostat**	Tomography only* Tomography with Cephalostat*	Tomography 0.2FS
Tube Voltage	60 ~ 90kV	60 ~ 120kV	60 ~ 90kV
Tube Current	3.2 to 16 mA	3.2 to 16 mA	1.8 mA to 4.0mA
Nominal Focal Point	0.5 mm	0.5 mm	0.2 mm
Generator	High Frequency		
Supply voltage	110/127/220/240 VAC		
Power Consumption	1.7 kVA		

* SFOV/MFOV
** 1 sensor / 2 sensors

CBCT

Model		AXR120	AXR90
Configurations		Tomography only Tomography with Cephalostat	Tomography 0.2FS
FOV		5x5 cm (SFOV / MFOV) 6x9 cm (SFOV / MFOV) 9x9 cm (SFOV / MFOV) 9x16 cm (MFOV) 15x16 cm (MFOV) 21x16 cm (MFOV)	5x5 cm (SFOV / MFOV) 6x9 cm (SFOV / MFOV) 9x9 cm (SFOV / MFOV)
Programed doses time		LD - 10s STD - 15s HD - 20s UHD - 25s	LD - 10s STD - 20s HD - 25s UHD - 25s
Voxel		85 to 400 µm	75 to 200 µm
Voltage Emission / Current Emission		120kV - 3.2~8mA	90kV - 1.8~4.0mA
Sensor Techonology		CMOS/a-Si	
Reconstruction Time		18s to 1m3s	

CEPHALOMETRIC

Programs	AP/PA, LL, Carpal, Oblique: from 4.1 to 16.5s Fast Mode: from 2.5 to 10s
Emission voltage/Anode current of exposures	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

	Standard: 14s
	Fast Panoramic: 10s
	Improved orthogonality: 14s
	Infant: 10s
Profiles	Maxillary sinus: 8s
	TMJ: 10s
	TMJ PA: 10s
	Bitewing: 7.6s
	Lateral section (left or right): 6s
	Center section: 3.5s
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

COMPUTER REQUIREMENTS

For full performance we recommend that the computer conected to Dental CT Scanner AXR products line equipment follow the minimum confi guration recommendations presented in the table below:

Product	2D	3D
Operational System	Windows 10 Professional - 64 BIT	Windows 10 Professional - 64 BIT
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
HDD	1 TB	1 TB
RAM	8 GB	16 GB
PCI Express	PCI Express (PCIe)	PCI Express (PCIe)
Dedicated network card	Gigabit Ethernet (1000Mb/s), JumboPacket 9KB (Intel i350-T1, Intel Gigfabit CT, PCE-1G-01-LP)	Gigabit Ethernet (1000Mb/s), JumboPacket 9KB (Intel i350-T1, Intel Gigfabit CT, PCE-1G-01-LP)
Profiles	400W or superior*	500W or superior*
Monitor	Resolution 1920x1080	Resolution 1920x1080
Video Card		NVidia Geforce GTX 1060 6GB or superior. Recommended for faster rebuilds: NVidia GeForce RTX 2060 6GB or superior

*Compatible PCI Express and-in video card connectors.

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