eagle edge

3D CBCT | PAN | CEPH

A COMPREHENSIVE SOLUTION WITH A MULTITUDE OF POSSIBILITIES

DABI ATLANTE

EAGLE EDGE **0.2FS**

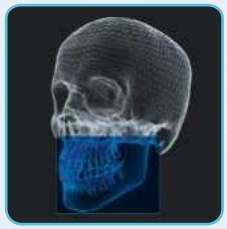
Eagle Edge is a Dabi Atlante brand. *Dental CT Scanner AXR*, as registered by ANVISA: 10101130088

With up to 4 Field Of View volumes:


5x5Ø


6x9Ø


9x9Ø

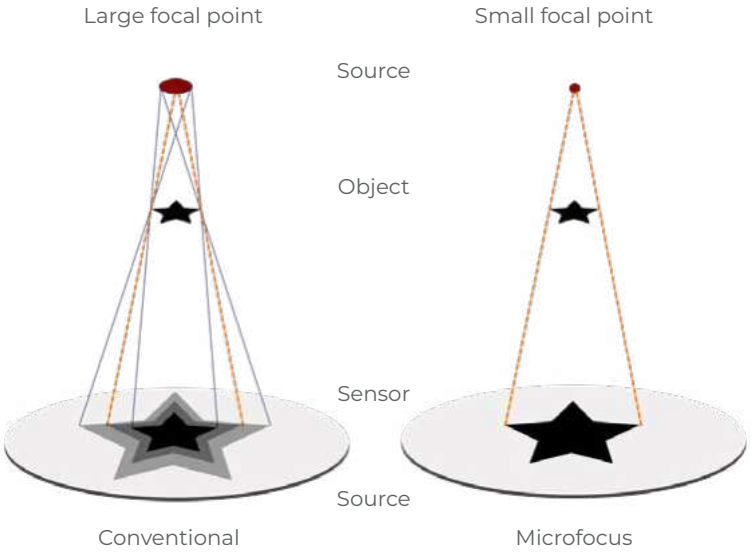

9x14Ø

High definition images:

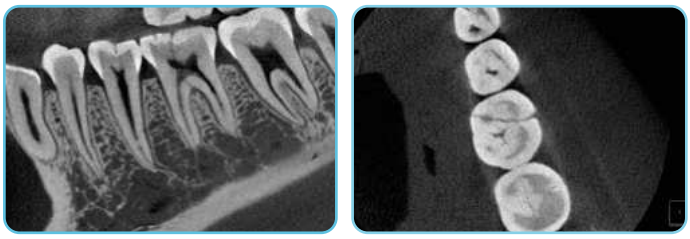
- Unique, with 0.2 focal point - generating stunning images
- Horizontal X-ray beams - to reduce metallic artefacts
- 360° scanning
- Voxel: 48µm
- Sensor with high quantum efficiency
- Patient Motion Correction (PMC): greatly improving accuracy in images, with reduced micro-motion artefacts

Why invest in a scanner with a 0.2 Focal Spot?

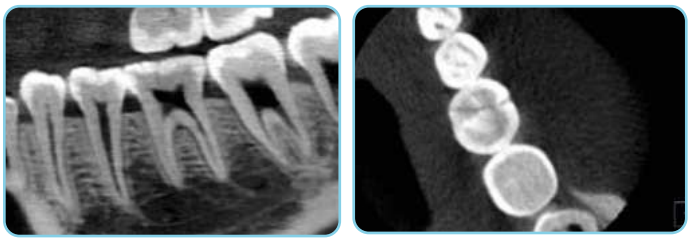
Choosing a smaller focal point results in less geometric blurring, producing a sharper, more detailed image. Images taken with the 0.2 focal point, have greater resolution compared to images taken with conventional scanners.



0.2 Focal Spot:

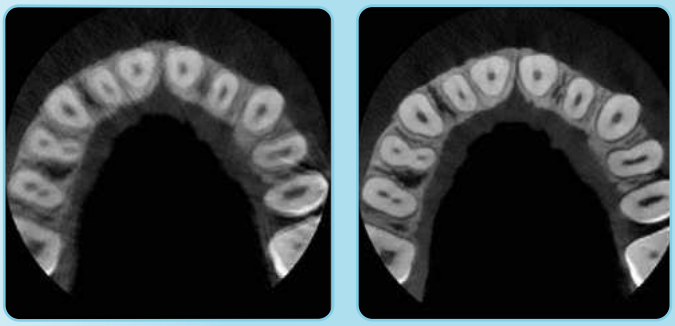


0.5 Focal Spot:



Patient Motion Correction (PMC)

The Eagle Edge algorithm automatically corrects the image, ensuring high exam quality, avoiding repetitions and offering greater accuracy for making diagnoses.



Without correction

With correction

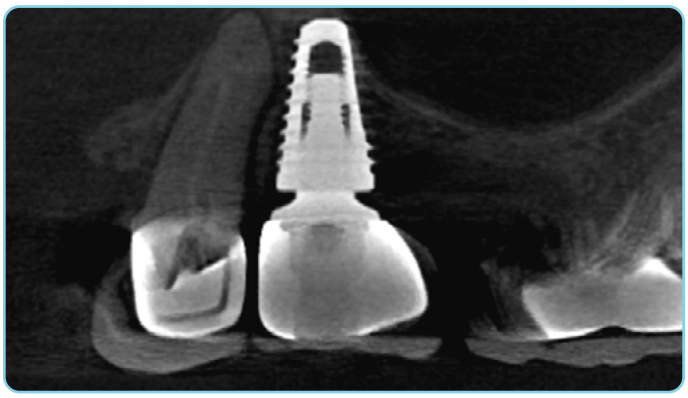
Cooling system

The 0.2FS equipment head has a cooling mechanism - allowing optimal workflow. Its aeronautical injected aluminium housing with fins, ensures optimized thermal exchange and maximized airflow, using two high-flow, low-noise coolers.

Dynamic range

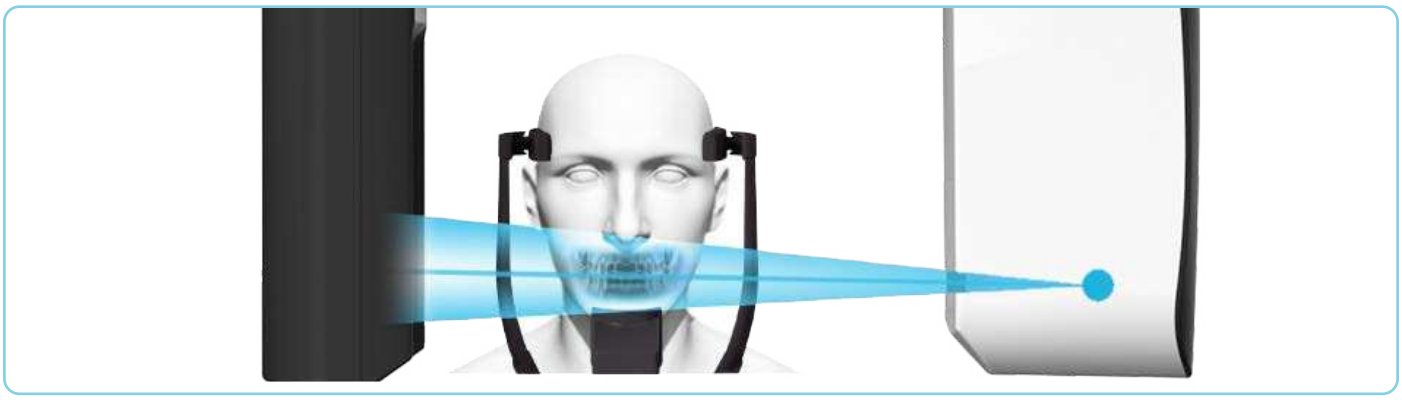
Dynamic range is how much a sensor can capture at low, medium and high exposures. Using a grayscale ranging from absolute black (0%) to absolute white (100%).

The Eagle Edge line has excellent dynamic range, optimizing the ability to distinguish different structures and perform accurate diagnoses.



Horizontal beams and rays

One of the greatest difficulties in making an accurate diagnosis on tomography, is the influence of metallic artefacts on the image. The Eagle Edge 0.2FS, as it is a dedicated CBCT, has a horizontal beam that minimizes dependence on the use of metallic attenuator reduction algorithms - to ensure accurate and reliable diagnoses.

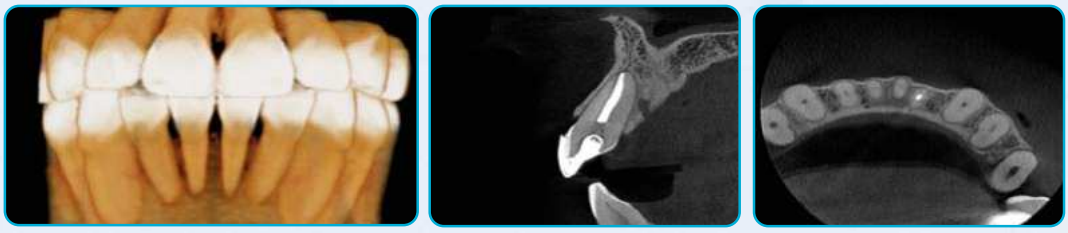


0.2FS DEDICATED CBCT CLINICAL IMAGES

FOV 5x5

5x5Ø – ENDO

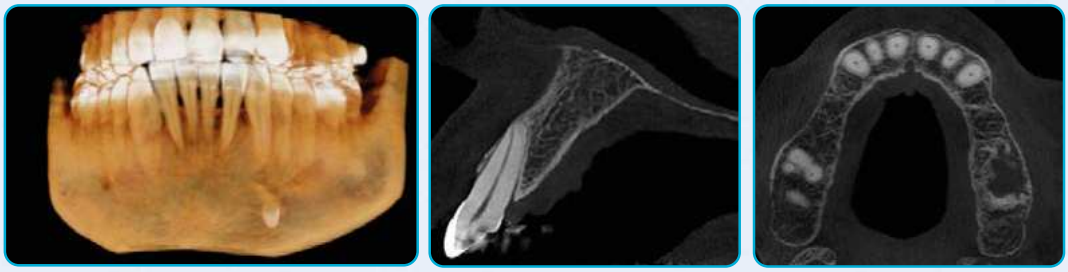
This small FOV is optimal for local diagnostics such as single implant planning, 3rd molar extraction and endodontic procedures. It has a resolution of 48µm for the Eagle Edge 0.2FS and keeps the exposure dose of the patient at a significantly reduced level.



FOV 6x9

6X9Ø – MAXILLA OR MANDIBLE

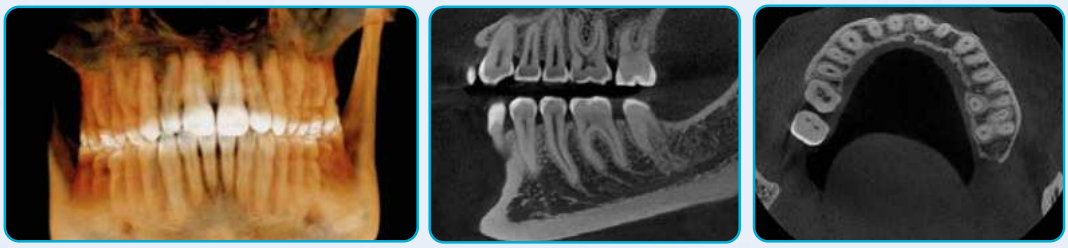
Allows the visualization of 1 arch (maxillary or mandible) and TMJ (left or right condyle separately).



FOV 9x9

9X9Ø - COMPLETE MANDIBLE

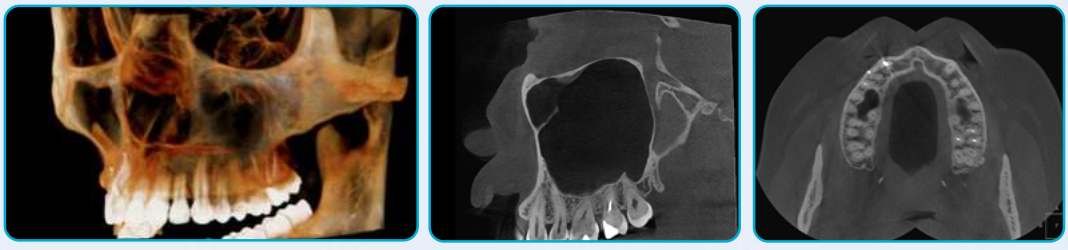
For the visualization of the entire arch, including the mandible, maxilla and mandibular ramus.



FOV 9x14

9X14Ø - ORAL AND MAXILLOFACIAL

View the mandible, maxilla, airways, sinuses and TMJ (closed and/or open) in a single volume.



EAGLE EDGE **3D**

3-in-1

4 Possible configurations:

SFOV	MFOV
PAN + CBCT	PAN + CBCT
PAN + CBCT + CEPH	PAN + CBCT + CEPH

UPGRADABLE · UPGRADABLE · UPGRADABLE ·

Software for imaging acquisition included

With exclusive technology from Dabi Atlante and innovative algorithms, the *Dental CT Scanner AXR* is prepared for high-flow demands and provides a complete solution in a single product. It is intelligent, precise, highly accurate in diagnosis, and has a performance that will impress the most demanding professionals.

Upgrade options:

(at a future date of your choice)

Equipment:

PAN + CBCT → PAN + CBCT with CEPH

SFOV CBCT sensor (FOV up to 9x14cm Ø) → MFOV CBCT sensor (FOV up to 21x16cm Ø)

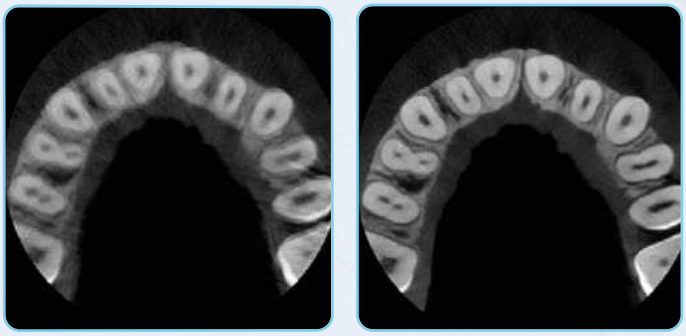
THE IDEAL FOV FOR EACH NEED

SFOV

MFOV

Patient Motion Correction (PMC)

The Eagle Edge algorithm automatically corrects the image, ensuring high exam quality, avoiding repetitions and offering greater accuracy for making diagnoses.

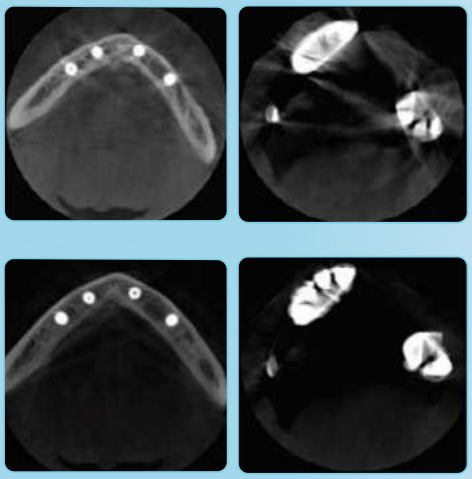


Without correction

With correction

Without the reduction of artefacts

With the reduction of artefacts



Metal artefact reduction - MAR

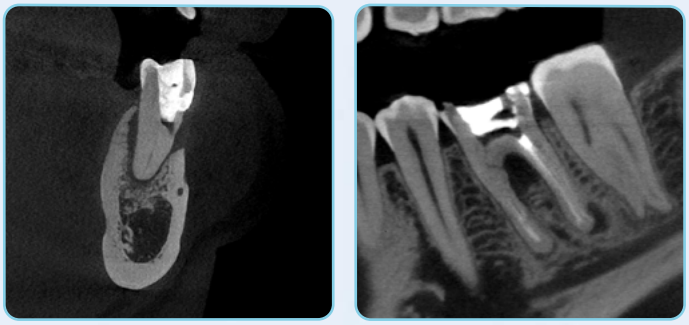
The Eagle Edge line features three processing levels that can be chosen to correct gutta-percha deformities, implants and/or full arch prosthesis and metal restorations, in addition to automatic metal reduction.

UHD mode for endodontics

Eagle Edge has different resolutions with Isotropic Voxel:

- 48µm to 200µm for the Eagle Edge 0.2FS

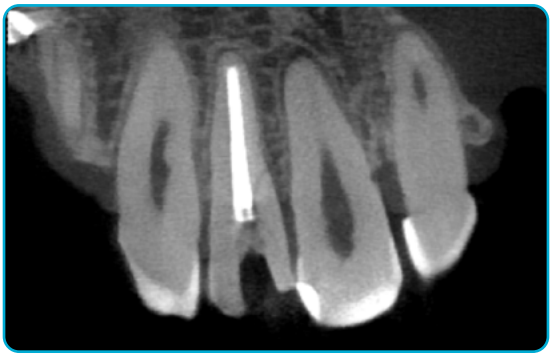
- 75µm to 400µm for the Eagle Edge



3D
CLINICAL IMAGES

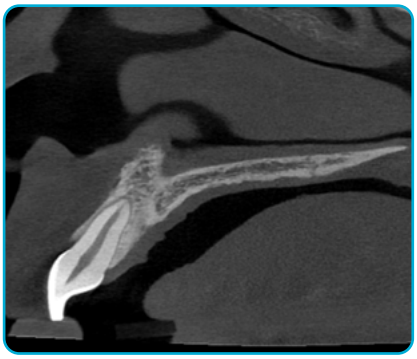
FOV 5x5
5x5Ø – ENDO

This small FOV is optimal for local diagnostics such as single implant planning, 3rd molar extraction and endodontic procedures. It has a resolution of 75µm and has 4 distinct programs, to better adjust the patient's exposure dose according to the purpose of the exam.



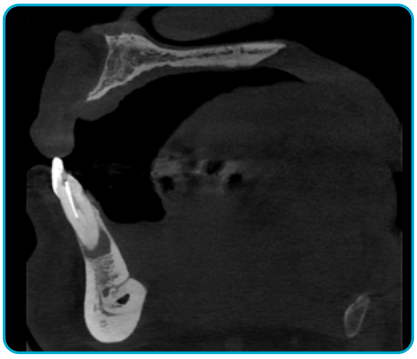
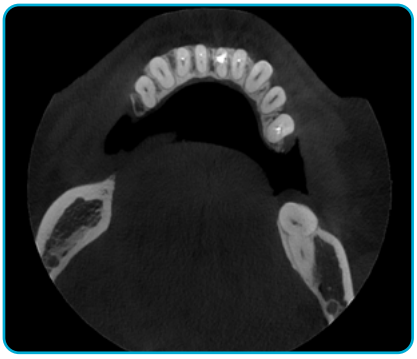
FOV 6x9
6X9Ø – MAXILLA OR MANDIBLE

Allows the visualization of 1 arch (maxillary or mandible) and TMJ (left or right condyle separately).

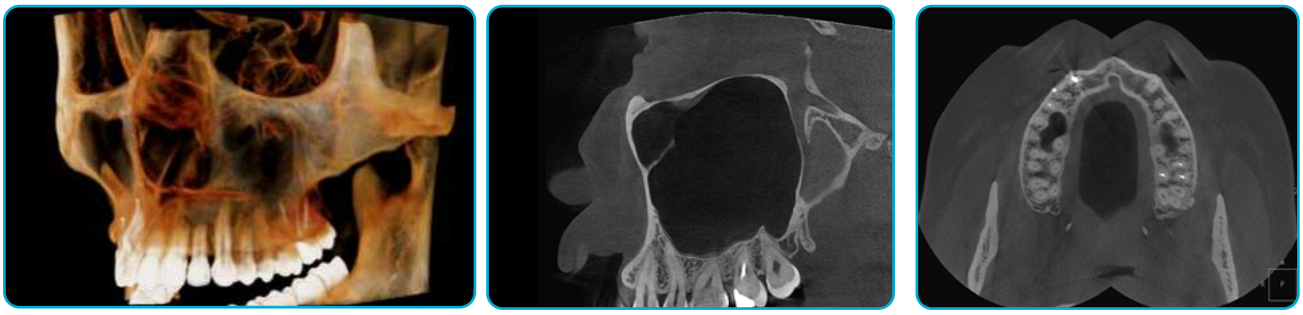

FOV 9x9
9X9Ø - COMPLETE MANDIBLE

For the visualization of the entire arch, including the mandible, maxilla and mandibular ramus.

FOV 9x14
9X14Ø - ORAL AND MAXILLOFACIAL

View the mandible, maxilla, airways, sinuses and TMJ (closed and/or open) in a single volume.

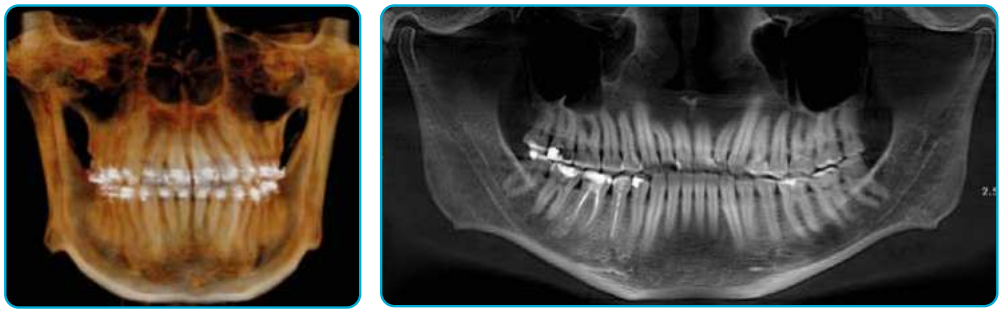


FOV 9x16
9X16Ø - EXTENDED MANDIBLE

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

FOV 15x16
15X16Ø - CRANIUM

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



FOV 21x16
21X16Ø - COMPLETE CRANIUM

Ideal for orthodontics - providing an image of the entire maxillofacial region.

EAGLE EDGE 2D

Pan + Ceph

3 Possible configurations:

PAN

PAN + CEPH (1 sensor)

PAN + CEPH (2 sensors)

FULLY UPGRADABLE TO 3D · FULLY UPGRADABLE TO 3D ·

Software for imaging acquisition included

The Eagle Edge 2D's features make it stand out in its usability and image quality. Its optimized filters adapt the images according to your needs and its multislice feature enables you to navigate between 41 panoramic slices - so you can view the exact structures you need to. In addition, the reconstruction algorithms guarantee extraordinary focus and contrast in each acquisition.

Upgrade options:

(at a future date of your choice)

Equipment:

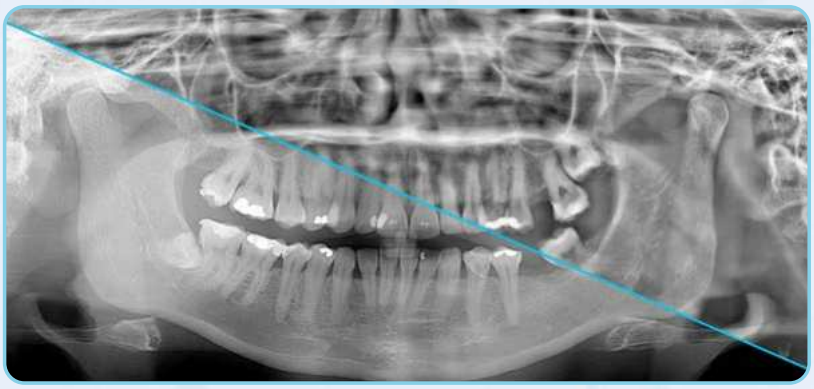
PAN → PAN with CEPH

PAN → PAN + CBCT SFOV / MFOV

PAN → PAN + CBCT SFOV / MFOV with CEPH

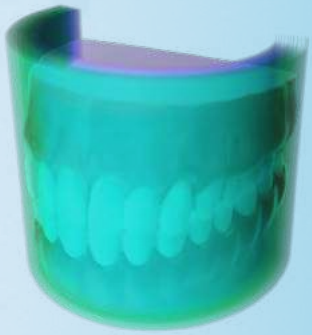
Filters

Eagle Edge machines feature optimization filters, including brightness, contrast, and layer thickness adjustments, empowering you to adapt your images to your preferred style. This flexibility ensures that you can deliver the highest-quality images to meet the demands of your target market.

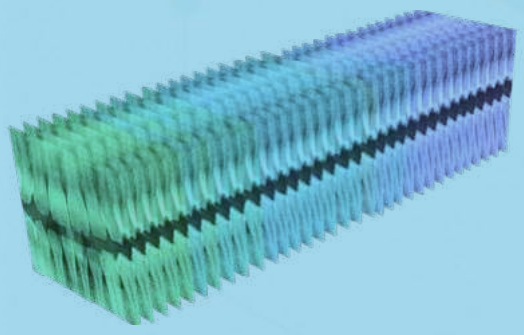


Multi-slice Panoramic

The Multi-slice panoramic captures multiple layers of panoramic images. It is an innovative tool that allows the observation of the desired structures, adding depth to the panoramic examination.



Mobility
Cutting plane



Multilayer
41 layers

Your Upgrade Journey

1

Install
2D Pan

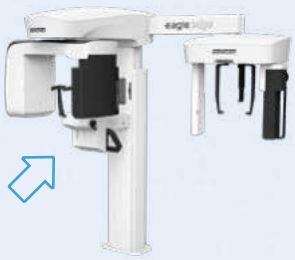
2

Add
Ceph Arm

Upgrade time
Installation - 20min
Calibration - 1h

3

Upgrade 2D sensor to 3D
SFOV CBCT sensor



Upgrade time
Installation - 60min
Calibration - 3h30min (Excl. Ceph: 3h)

4

Upgrade SFOV sensor to
MFOV sensor

Upgrade time
Installation - 30min
Calibration - 3h30min (Excl. Ceph: 3h)

Cost effective · Limited downtime · No noise or dirt disruptions · No time limit to opt-in for upgrades.

PANORAMIC
CLINICAL IMAGES

Panoramic

Fast Pan

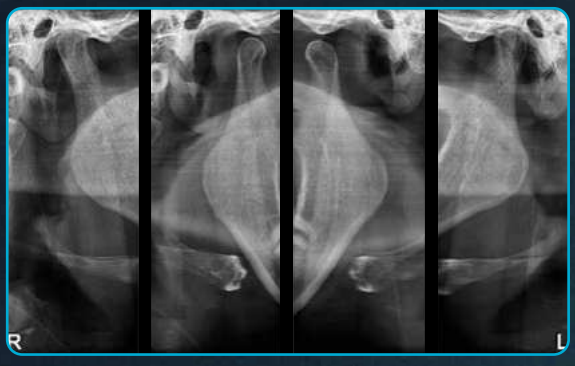
Children's Panoramic

Bitewing

Enhanced Ortho

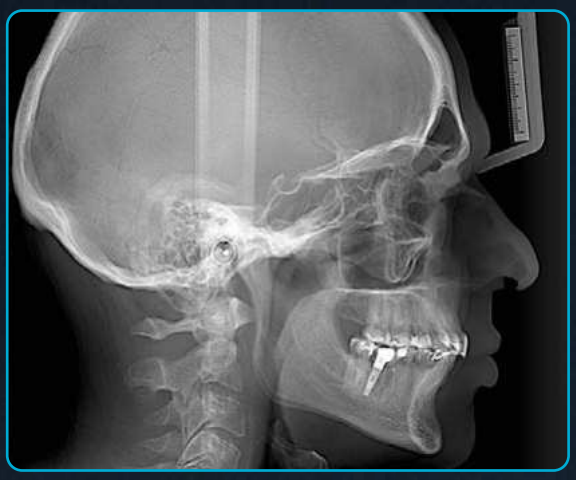
Maxillary Sinuses

TMJ

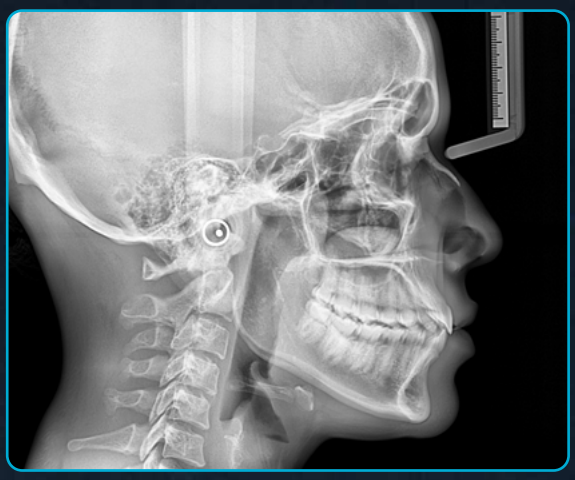


CEPHALOMETRICAL CLINICAL IMAGES

Lateral Ceph



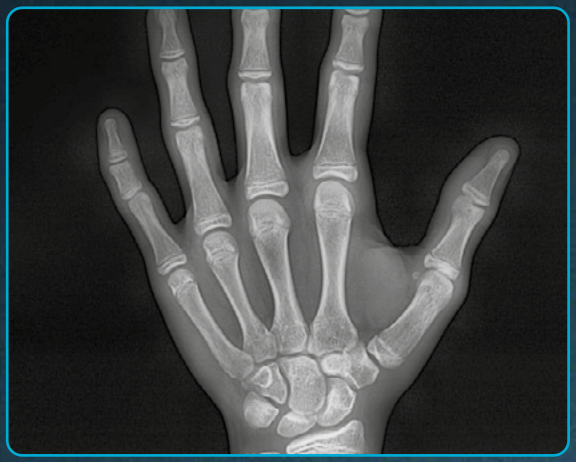
Fast Ceph



AP/PA Frontal Ceph

Oblique Ceph

Carpal Ceph



3D ALGORITHMS

OPTIMIZING YOUR WORK-FLOW AND DIAGNOSTIC ACCURACY

Patient Motion Correction (PMC)

During exams, patients commonly make micro-movements, affecting the final exam result.

The Eagle Edge algorithm automatically corrects the image, ensuring high exam quality, avoiding repetitions and offering greater accuracy for making diagnoses.

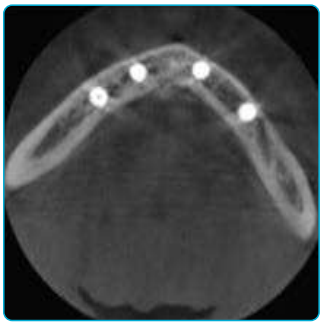
Without correction

With correction

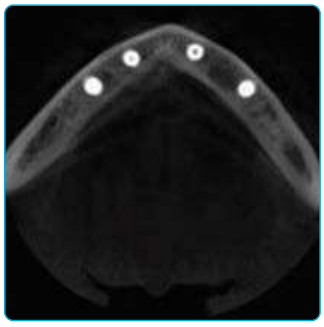
Metal Artefact Reduction (MAR)

The Eagle Edge line features three processing levels that can be chosen to correct gutta-percha deformities, implants and/or full arch prosthesis and metal restorations, in addition to automatic metal reduction.

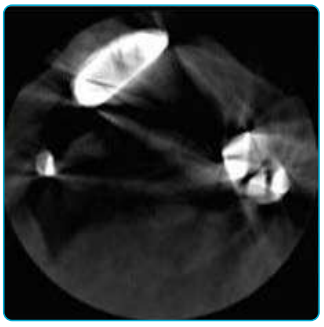
This tool also allows image reprocessing, for a better diagnosis, preventing the need to generate new exposure to the patient.



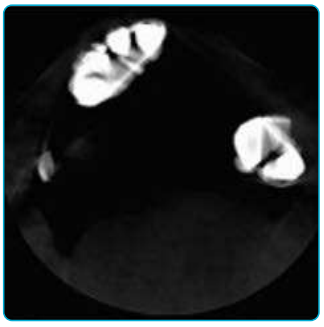
Without MAR



With MAR



Without MAR



With MAR

2D ALGORITHMS

INTELLIGENCE APPLIED TO PANORAMIC EXAMS, GENERATING STUNNING IMAGES.

Eagle Smart Contrast

An innovative algorithm, working in all parts of the image, to treat and improve the contrast of each area individually. The result is a homogeneous and noise-free image, allowing the clear visualization of details, and therefore, better diagnosis.

Eagle Eye

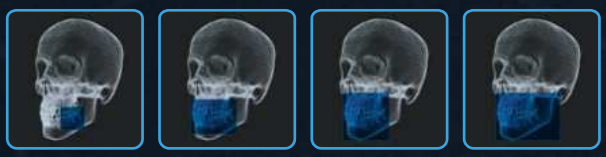
Eagle Eye software features an innovative function that delivers a final image with greater detail and definition, especially in the region of incisors and canines, TMJ and root canals.

The combination of algorithms allows the reconstruction of an optimized panoramic image. Eagle Eye technology brings the exceptional diagnostic quality to the most challenging cases.

VERSATILITY AND INNOVATION: THE EAGLE EDGE FOCUS

V-Beam

The Variable Cone Beam developed for Eagle, guarantees high definition in images with FOVs of 5x5Ø, 6x9Ø, 9x9Ø and 9x14Ø (SFOV sensor), and allows the capture of larger images, adding the options of FOVs of 9x16Ø, 15x16Ø and 21x16Ø (with the MFOV sensor). Eagle Edge is the complete solution for 3D diagnostics, especially in endodontic, implantology and orthodontic applications.



5x5Ø 6x9Ø 9x9Ø 9x14Ø

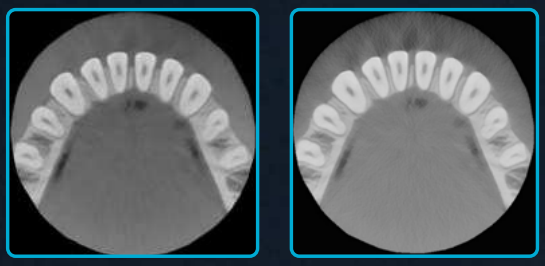
9x16Ø 15x16Ø 21x16Ø

A product with different tube voltages

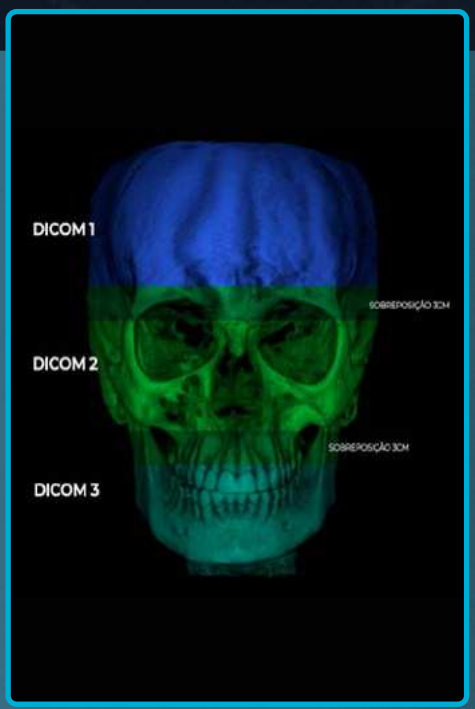
The *Dental CT Scanner AXR* comes with a 120kV tube on it's 3D SFOV and MFOV machines. Operation at 120 kV, combined with special radiation filters, produce beams with higher average energy, reducing photons of lower energy, which provides two benefits:

1 - Fewer artefacts in the image, due to the reduction of Beam Hardening in the patient.

2 - Reduction in the production of low-energy beams, which can be filtered using a more efficient set of filters - resulting in a lower radiation dose and a better image quality.



120 kv 90 kv



Stitching

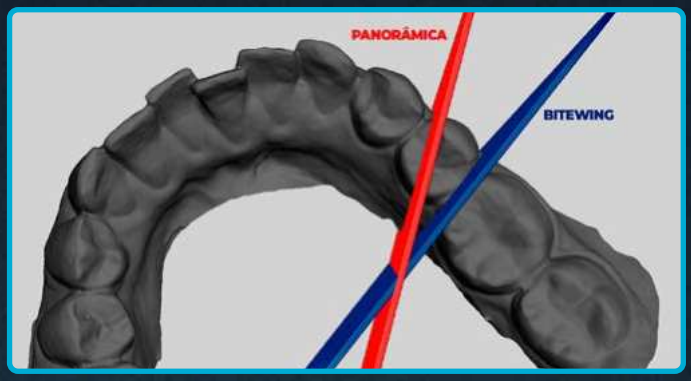
Moving the chin rest enables large FOV tomographic images (15x16Ø and 21x16Ø) to be performed in continuous operation. This avoids patient repositioning, which minimizes position deviations between individual captures.

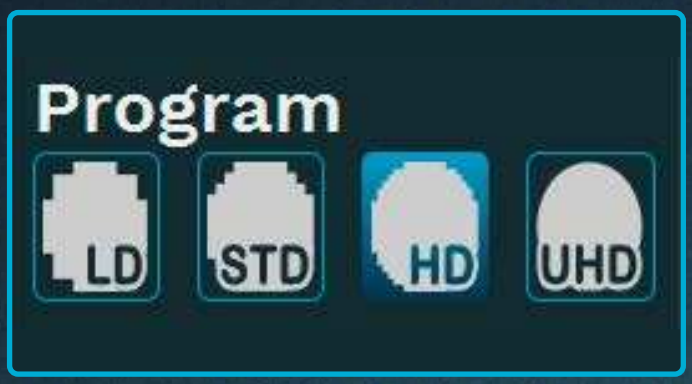
By capturing in a single sequence and utilizing automatic stitching (automatic volume merging) along with PMC (Patient Motion Correction), we produce high-quality images, minimizing artefacts and decreasing the time required for image capture and processing.

- Automatic positioning
- 3 cm overlap between the layers
- Motion correction ensures the uniformity of images
- Reducing the odds of rework

3 Axes

The advanced movement system includes three axes (two orthogonal directions and one rotation), which allows greater flexibility in the preparation of radiographic profiles, optimization of the thickness of the cutting plane and constant vertical recovery.





Choose the ideal programme for your needs

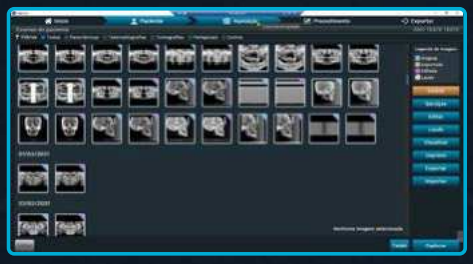
Choose the ideal resolution for each exam, adjusting exposure time and voxel size according to the exam objective. Control the exposure to get a higher resolution or an image with a lower exposition.

LD STD HD UHD

MANAGEMENT SYSTEM
EAGLE EYE SOFTWARE

Eagle Eye is a software focussed on user-friendliness, that examines performance gains in reporting. It assists professionals in accomplishing what they need to in as few clicks as possible - facilitating patient flow.

Dental Imaging Software - Eagle Eye: Anvisa 10101130091



REGISTER

Simple and intuitive: register users (with different levels of permission), dentists and patients.

SEARCH

Focussed on user-friendliness: search for users, dentists and patients.

CAPTURE AND EDIT

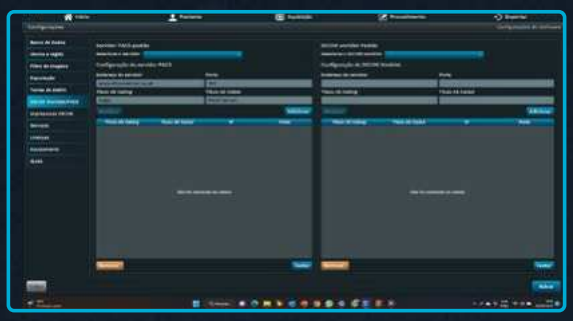
Capture 2D and 3D images, and edit 2D images, all in the same software.

EXPORT

Export images and DICOM files in formats compatible with most software systems worldwide.

PANORAMIC REPORTS

Speed and practicality: Perform panoramic reports directly in the acquisition software.



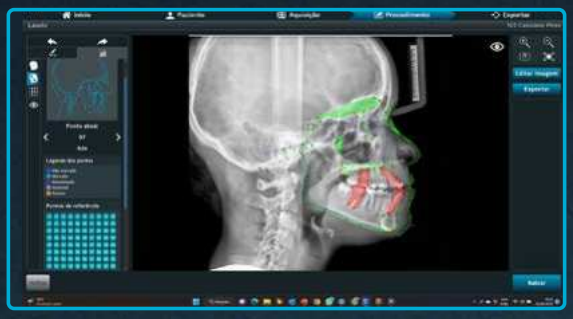
Eagle Eye **Connection**

The Dicom Worklist tools, communication via PACS, and acquisition via TWAIN driver, enable immediate sending of images generated by the equipment, to all of the leading image management and sharing programmes.

Eagle Eye **IP (Implant Planning)**

Implant Planning is a tool that allows you to simulate implants directly on your computer.

You can simulate the position of implants in two-dimensional imagery, identify the mandibular canal and take measurements.



Eagle Eye **Ceph (Manual)**

A software tool for manual cephalometrical trace reports. (Available protocols: MCNAMARA, USP, Ricketts, Steiner, Rocabado, Tweed, among others.)

Eagle Eye Ceph **AI Diagnostic** *

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

* Optional

ONDEMAND
SOFTWARE LINE

OnDemand3D DENTAL

Optionally, the Eagle Edge line can be accompanied by OnDemand3D Dental software, the leading software in the world due to its user-friendly interface, resource availability, processing speed and security.

Report

OnDemand3D™ makes reporting easier and simpler for professionals by offering multiple templates for every use.

Create your own report template with the X-Report Template Designer. These reports can be stored both in the database and on the computer, in HTML, PPT or PDF format.

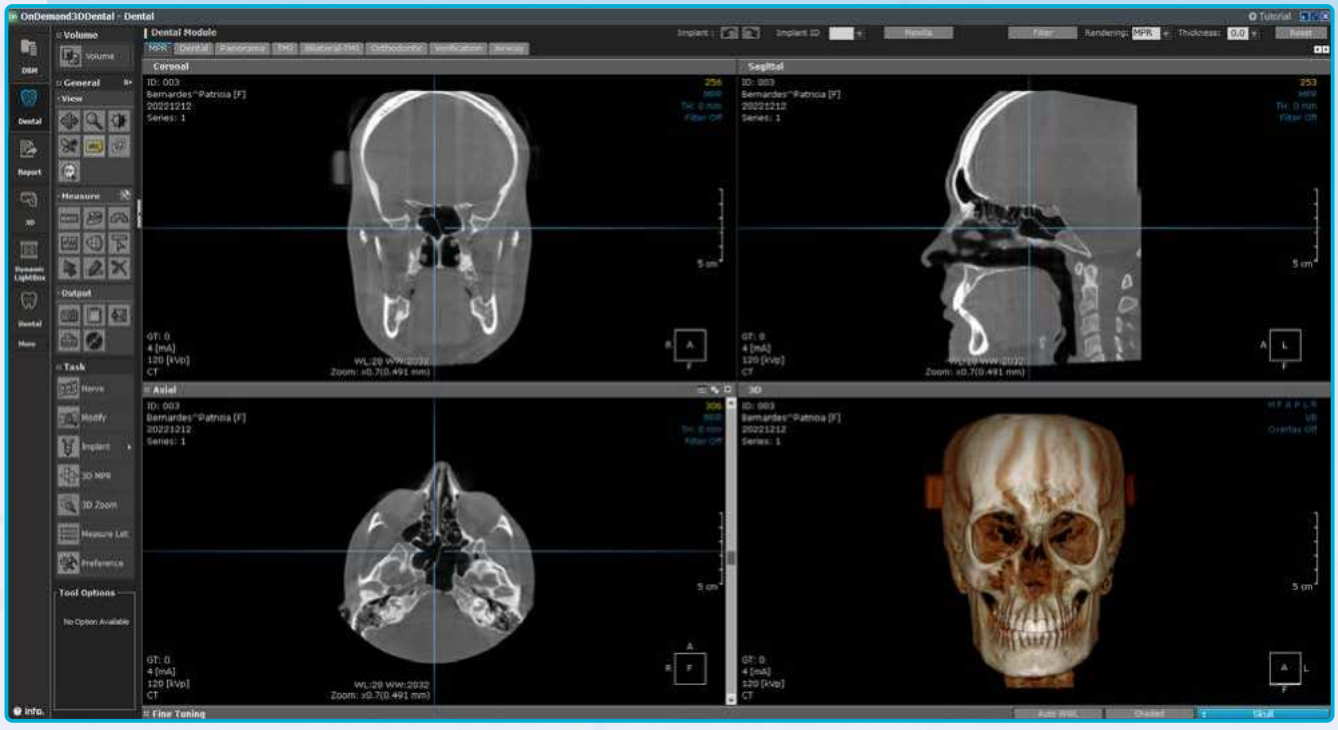
Viewer creation

With the OnDemand3D software you can create viewer access. This enables you to share exams with your clients and patients who do not have a specific programme for viewing DICOM files.

This viewer will have access to all the diagnostic tools of the licensed version, such as positioning implants, taking measurements and panoramic cuts.

CONVERT TO STL

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



PRODUCT SPECIFICATION
COMPARISON TABLE

		DEDICATED CBCT EAGLE EDGE 0.2FS	EAGLE EDGE 3D MFOV	EAGLE EDGE 3D SFOV	EAGLE EDGE 2D
PRODUCT	MODEL	AXR90	AXR120	AXR120	AXR90
	FOCAL POINT (mm)	0.2	0.5	0.5	0.5
	VOXEL (µm)	48 - 200	75 - 400	75 - 400	NA
	FOV (FIELD OF VIEW)	5x5, 6x9, 9x9, 9x14	5X5, 6X9, 9X9, 9X16, 15X16 & 21X16	5x5, 6x9, 9x9, 9x14	NA
	CEPH	NA	O	O	O (1 OR 2 SENSORS)
	TUBE VOLTAGE (kV)	60 - 90	60 - 120	60 - 120	60 - 90
	TUBE CURRENT (mA)	1.8 - 4	3.2 - 16	3.2 - 16	3.2 - 16
	POWER SUPPLY VOLTAGE (V)	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 & 3 CHIN RESTS	5 BITE BLOCKS & 3 CHIN RESTS	5 BITE BLOCKS & 3 CHIN RESTS	5 BITE BLOCKS & 3 CHIN RESTS
IMAGE PROGRAMMES	SOFTWARE - LICENSES	EAGLE EYE (1 SERVER + 5 CLIENTS)	EAGLE EYE (1 SERVER + 5 CLIENTS)	EAGLE EYE (1 SERVER + 5 CLIENTS)	EAGLE EYE (1 SERVER + 5 CLIENTS)
	ADULT PAN	NA	S	S	S
	INFANT PAN	NA	S	S	S
	FAST PAN	NA	S	S	S
	SINUSES	NA	S	S	S
	TMJ	NA	S	S	S
	BITE WING	NA	S	S	S
	IMPROVED ORTHO	NA	S	S	S
	MULTI-SLICE	NA	S	S	S
	2D FILTERS - ACQUISITION MODE (ORIGINAL, 1, 2, 3) AND OPTIMIZED AUTO PAN	NA	S	S	S
	DOSE / RESOLUTION	LD/STD/HD/UHD	LD/STD/HD/UHD	LD/STD/HD/UHD	NA
SOFTWARE: EAGLE EYE	PATIENT AND EXAMINATION MANAGEMENT	S	S	S	S
	TWAIN	S	S	S	S
	IMAGE MANAGEMENT	S	S	S	S
	POST IMAGE PROCESSING	S	S	S	S
	EXPORT TO EMAIL	S	S	S	S
	DICOM (IMPORT, SAVE, SEND)	S	S	S	S
	MEASUREMENTS AND NOTES	NA	S	S	S
	PRINT TEMPLATE	S	S	S	S
	EAGLE CONNECTION (GENERATION OF VIEWS, PACS COMMUNICATION, DICOM WORKLIST)	S	S	S	S
	EAGLE CEPH (CEPHALOMETRIC TRACE)	NA	S	S	S
	EAGLE EYE IP (IMPLANT PLANNING)	NA	S	S	S
	CEPHALOMETRY - IMAGE SIZE	NA	S	S	S
	CEPHALOMETRY - ARTIFICIAL INTELLIGENCE	NA	O	O	O
SOFTWARE: EAGLE TOMOGRAPHY	MAR - ARTEFACT CORRECTION	0/1/2/3	0/1/2/3	0/1/2/3	NA
	PMC - PATIENT MOTION CORRECTION	S	S	S	NA
	3D RECONSTRUCTION - CERA	NA	S	NA	NA
	3D VIEWER	S	S	S	NA
	ON DEMAND	S	S	S	NA
UPGRADES	CEPH	N/A	S	S	S
	3D - SFOV	N/A	N/A	N/A	S
	3D - MFOV	N/A	N/A	S	S

S: STANDARD

O: OPTIONAL (module sold separately)

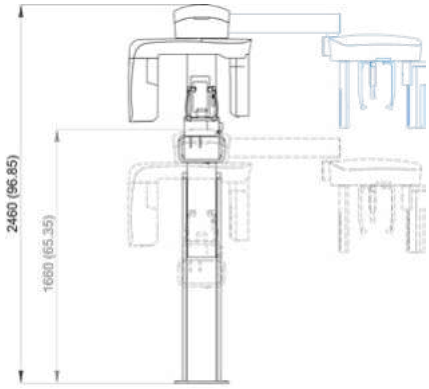
NA: NOT APPLICABLE

COMPUTER CONFIGURATION
MINIMUM REQUIREMENTS

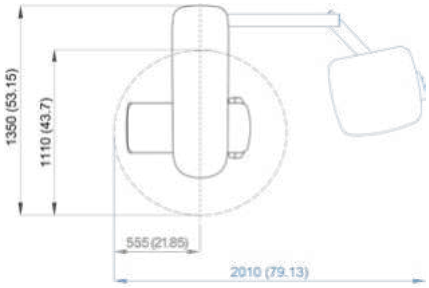
For optimal performance, we recommend that the computer connecting to Eagle products, meet the minimum recommendations presented in the table below.

Product	2D	3D
Operating 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 (DDR4)	16 GB (DDR4)
USB 2.0	1 USB Port	2 USB Ports
PCI Express	PCI Express (PCIe)	PCI Express (PCIe)
Dedicated network card	Gigabit Ethernet (1000Mb/s), JumboPacket 9KB (Intel i350-T1, Intel Gigabit CT, PCE-1G-01-LP)	Gigabit Ethernet (1000Mb/s), JumboPacket 9KB (Intel i350-T1, Intel Gigabit CT, PCE-1G-01-LP)
Power supply	400W or superior*	500W or superior*
Monitor	Resolution 1920x1080	Resolution 1920x1080
Video card		NVidia Geforce RTX 4060 8GB or superior. Recommended for faster rebuilds: NVidia GeForce RTX 4070 12GB or superior

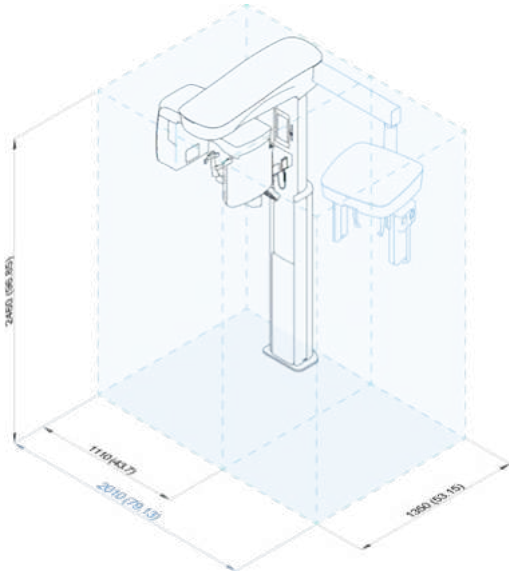
DIMENSIONS



FRONT VIEW



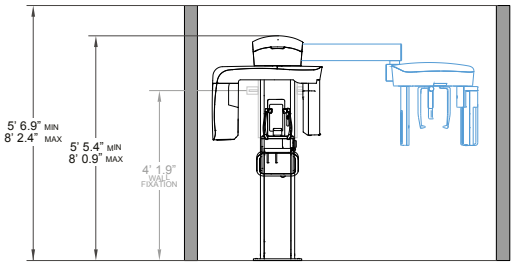
TOP VIEW



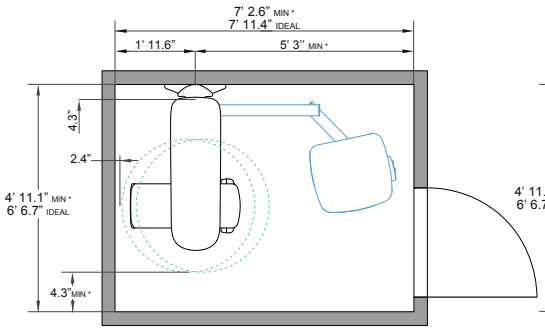
Unit of length: mm (inches)

RECOMMENDED **ROOM SIZE**

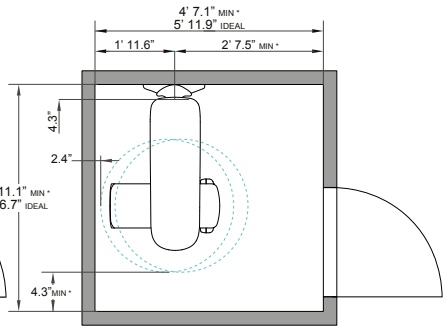
Imperial dimensions



HEIGHT



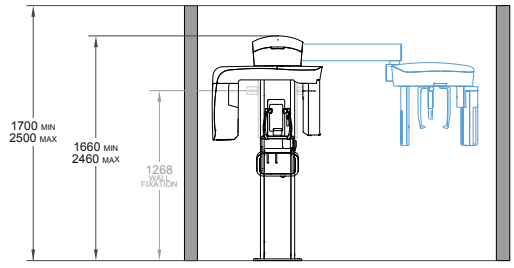
FLOOR AREA
WITH CEPH



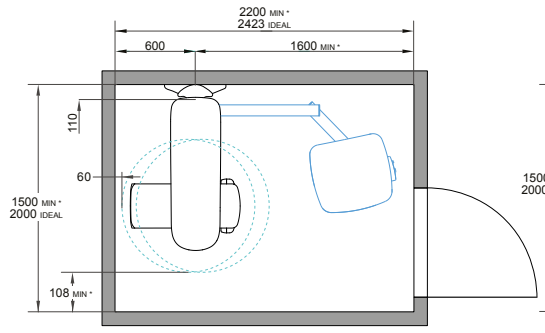
FLOOR AREA
WITHOUT CEPH

Unit of length: feet & inches

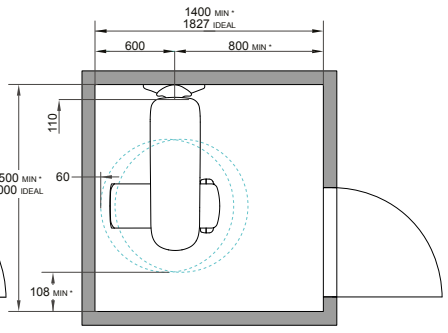
Metric dimensions



HEIGHT



FLOOR AREA
WITH CEPH



FLOOR AREA
WITHOUT CEPH

Unit of length: mm

* Minimum room lengths are only viable for rooms with a sliding, or outward opening door.

Local guidelines may vary. Seek guidance from your local health authorities for further information and requirements regarding the installation and operation of the equipment.

DABI ATLANTE

a member of the Alliage group

www.dabiatlante.com

Eagle Edge is an Alliage brand of *Dental CT Scanner AXR*, as registered by Anvisa 10101130088. Dental Imaging Software – Eagle Eye: Anvisa 10101130091. The assembly of the equipment must be paid for by the buyer (client) and carried out by an accredited technician. The package must remain closed until the technician arrives, if it is violated, the product warranty will be cancelled.

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