

SXR

3D CBCT
PAN
CEPH



EVOLVE your clinic with
a comprehensive, all inclusive
and fully upgradable
radiographic solution.

SAEVO 

SXR 3D CBCT

3-in-1



4 Possible configurations

SFOV

- PAN + CBCT
- PAN + CBCT + CEPH

MFOV

- PAN + CBCT
- PAN + CBCT + CEPH



Upgrade options

(at a future date of your choice)

Equipment:

- PAN + CBCT → PAN + CBCT with CEPH
- SFOV CBCT sensor → MFOV CBCT sensor (FOV up to 21x16cm Ø)
- (FOV up to 9x14cm Ø)

With exclusive technology 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.

THE IDEAL FOV FOR EACH NEED



Patient Motion Correction (PMC)

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

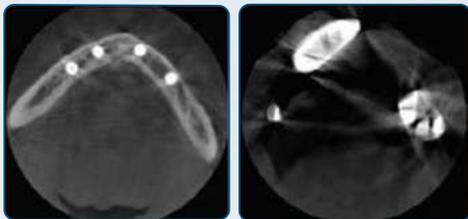


Without correction

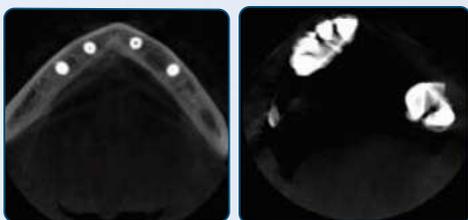


With correction

Without the reduction of artefacts



With the reduction of artefacts

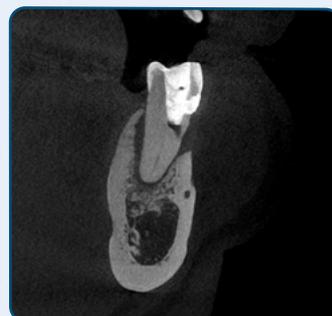


Metal artefact reduction (MAR)

The SXR 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

SXR has a Isotropic Voxel of 75µm to 400µm.



3D CLINICAL IMAGES

FOV 5x5

5x5Ø – ENDO

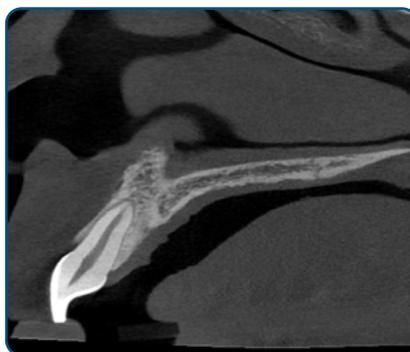
This small FOV is optimal for local diagnostics such as single implant planning, 3rd molar extraction and endodontic procedures. It has a resolution of 75µm and has 4 distinct programs, to better adjust the patient's exposure dose according to the purpose of the exam.



FOV 6x9

6x9Ø – MAXILLA OR MANDIBLE

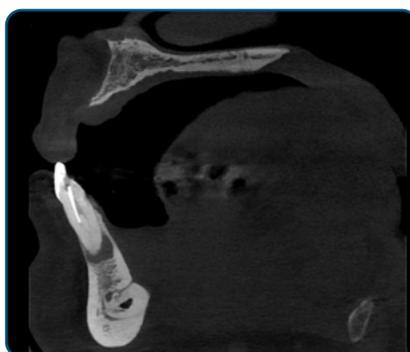
Allows the visualization of 1 arch (maxillary or mandible) and TMJ (left or right condyle separately).



FOV 9x9

9x9Ø - COMPLETE MANDIBLE

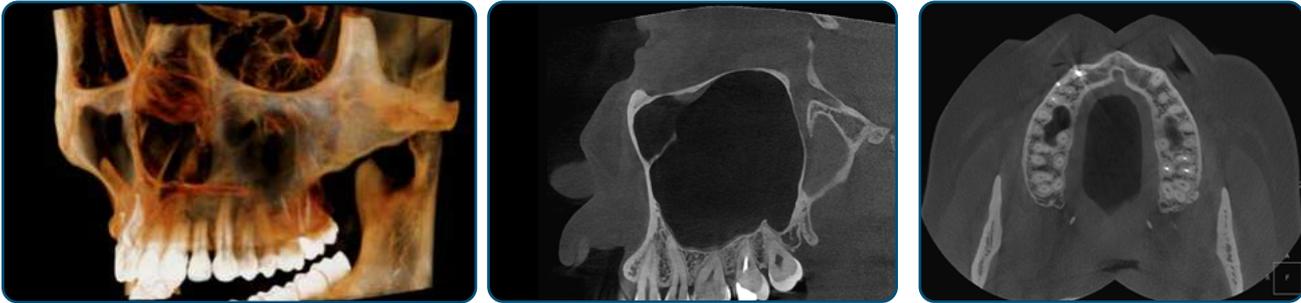
For the visualization of the entire arch, including the mandible, maxilla and mandibular ramus.



FOV 9x14

9X14Ø - ORAL AND MAXILLOFACIAL

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

**FOV 9x16**

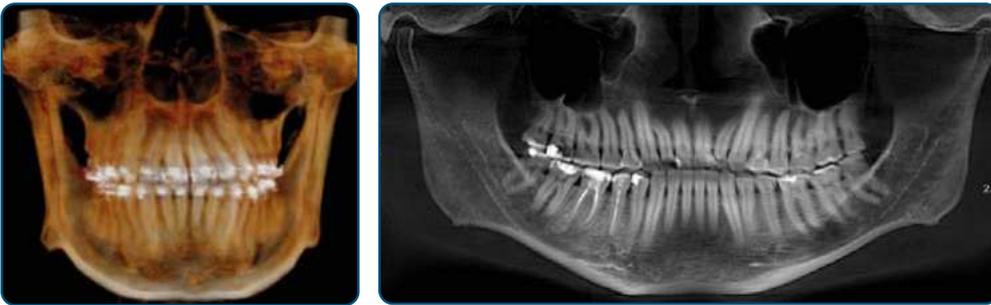
9X16Ø - EXTENDED MANDIBLE

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 diagnoses of the entire maxillofacial region.

**FOV 21x16**

21X16Ø - COMPLETE CRANIUM

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



SXR 2D

PAN



Pan + Ceph



3 Possible configurations

- PAN
- PAN + CEPH (1 sensor)
- PAN + CEPH (2 sensors)



Upgrade options

(at a future date of your choice)

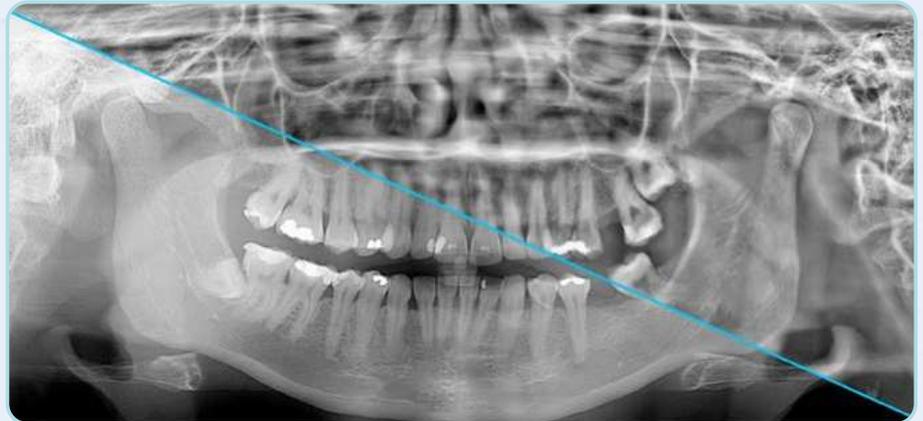
Equipment:

- PAN → PAN with CEPH (1 or 2 sensors)
- PAN → PAN + CBCT SFOV / MFOV
- PAN → PAN + CBCT SFOV / MFOV with CEPH

The SXR 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 the best focus and contrast in each acquisition.

Filters

SXR machines have optimization filters (brightness, contrast and layer thickness), which allow you to adapt the images to your preferred style, ensuring you obtain the best images.

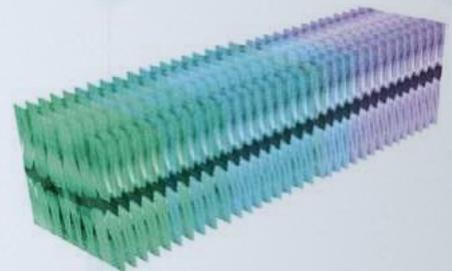


Multi-slice Panoramic

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

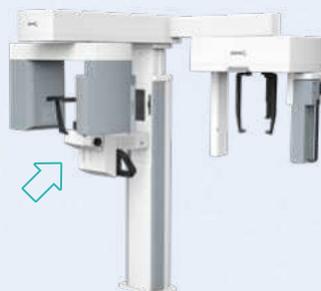
Add
Ceph Arm



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

Fast Pan



Bitewing



Maxillary Sinuses



Panoramic



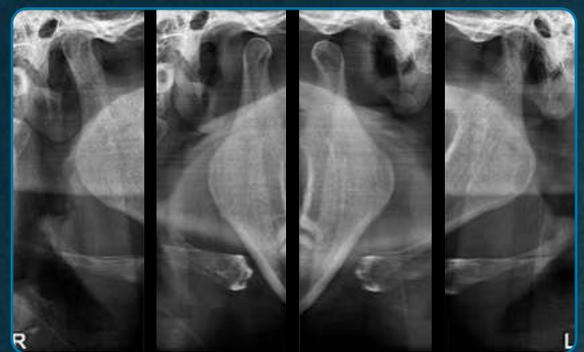
Children's Panoramic



Enhanced Ortho



TMJ



CEPHALOMETRICAL CLINICAL IMAGES

Lateral Ceph



Fast Ceph



AP/PA Frontal Ceph



Oblique Ceph

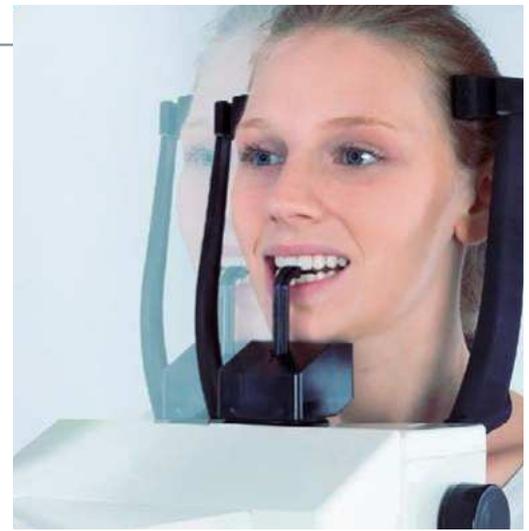


Carpal Ceph



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 SXR 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 SXR 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.

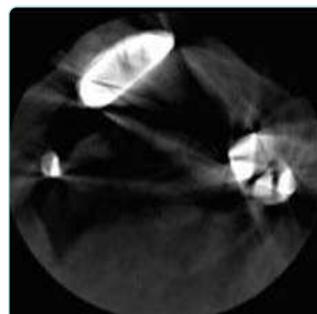
This tool also allows image reprocessing, for a better diagnosis, preventing the need to generate new exposure to the patient.



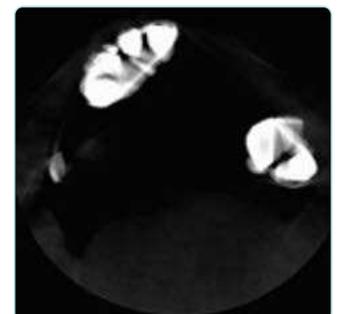
Without MAR



With MAR



Without MAR



With MAR

2D ALGORITHMS

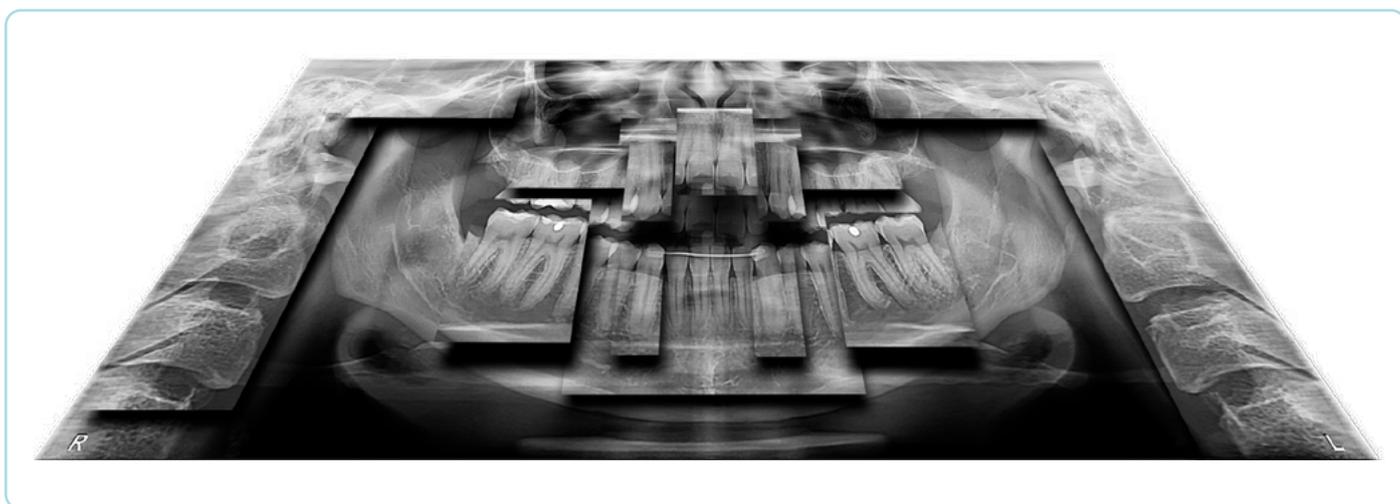
INTELLIGENCE APPLIED TO PANORAMIC EXAMS, GENERATING STUNNING IMAGES.

SAEVO Image - 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.

SAEVO Image

Software featuring 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. *SAEVO Image* technology brings the extraordinary diagnostic quality to the most challenging cases.

VERSATILITY AND INNOVATION: THE SXR 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.

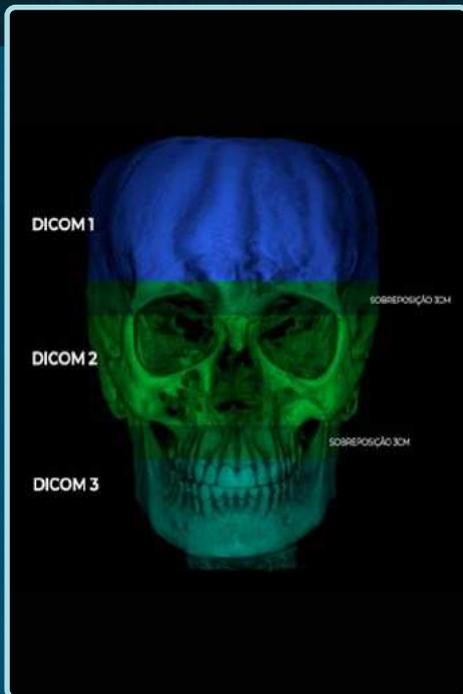
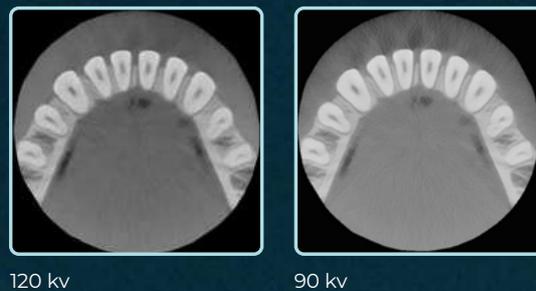


A product with different tube voltages

The *Dental CT Scanner AXR* comes with a 120kV tube on its 3D 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.



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.

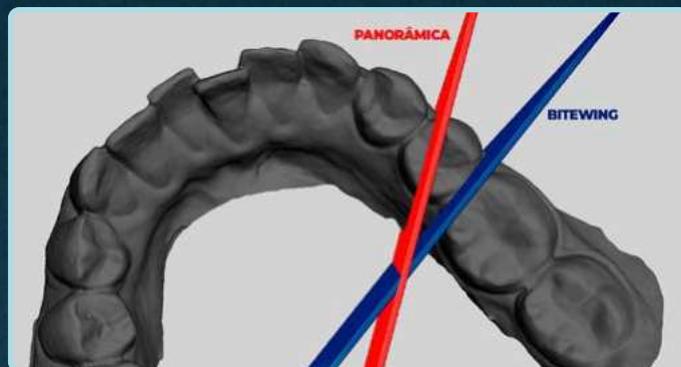
By capturing in a single sequence and utilizing automatic stitching (automatic volume merging) along with PMC (Patient Motion Correction), we produce high-quality images, minimizing artefacts and decreasing the time required for image capture and processing.

- 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.

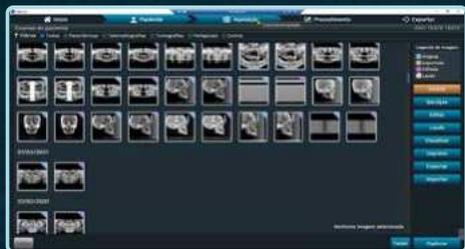


MANAGEMENT SYSTEM

SAEVO IMAGE SOFTWARE

SAEVO Image 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.



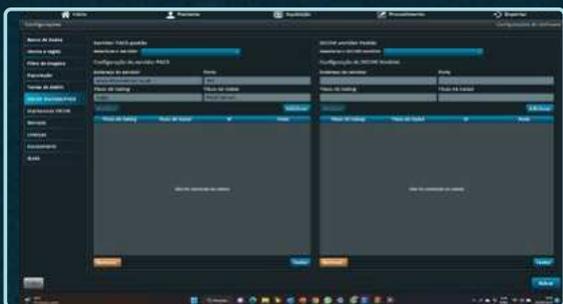
EXPORT

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.



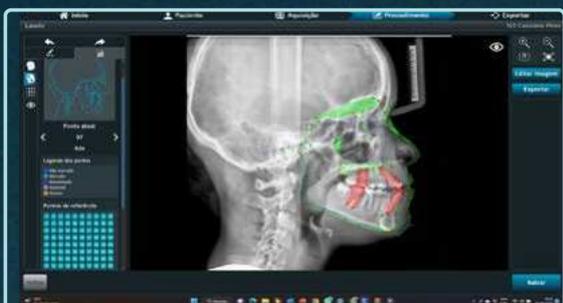
SAEVO Image Connection

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.

SAEVO Image 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.

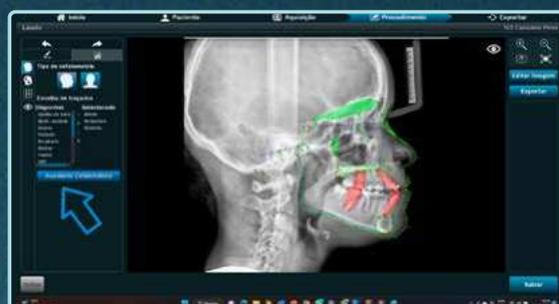


SAEVO Image Ceph (Manual)

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

SAEVO Image 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 SXR 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.

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.

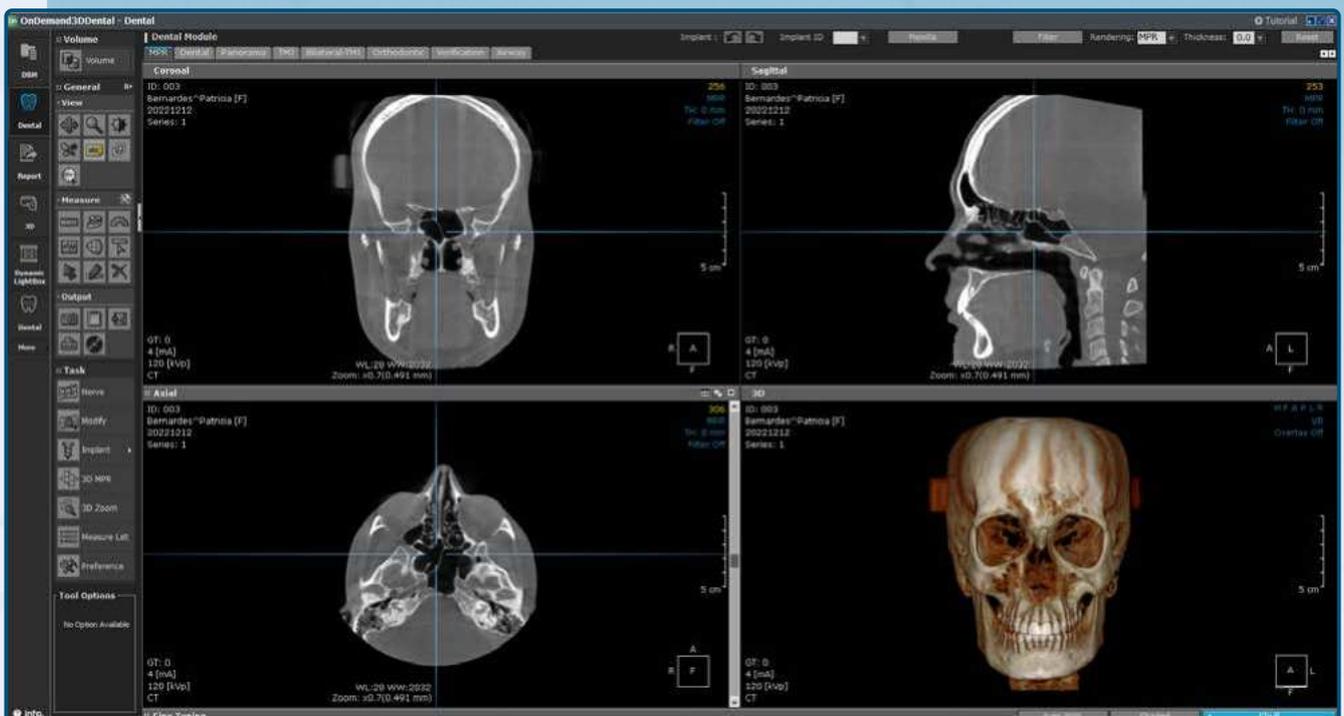
Report

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.

CONVERT TO STL

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



PRODUCT SPECIFICATION COMPARISON TABLE

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

S: STANDARD

O: OPTIONAL (module sold separately)

NA: NOT APPLICABLE

COMPUTER CONFIGURATION

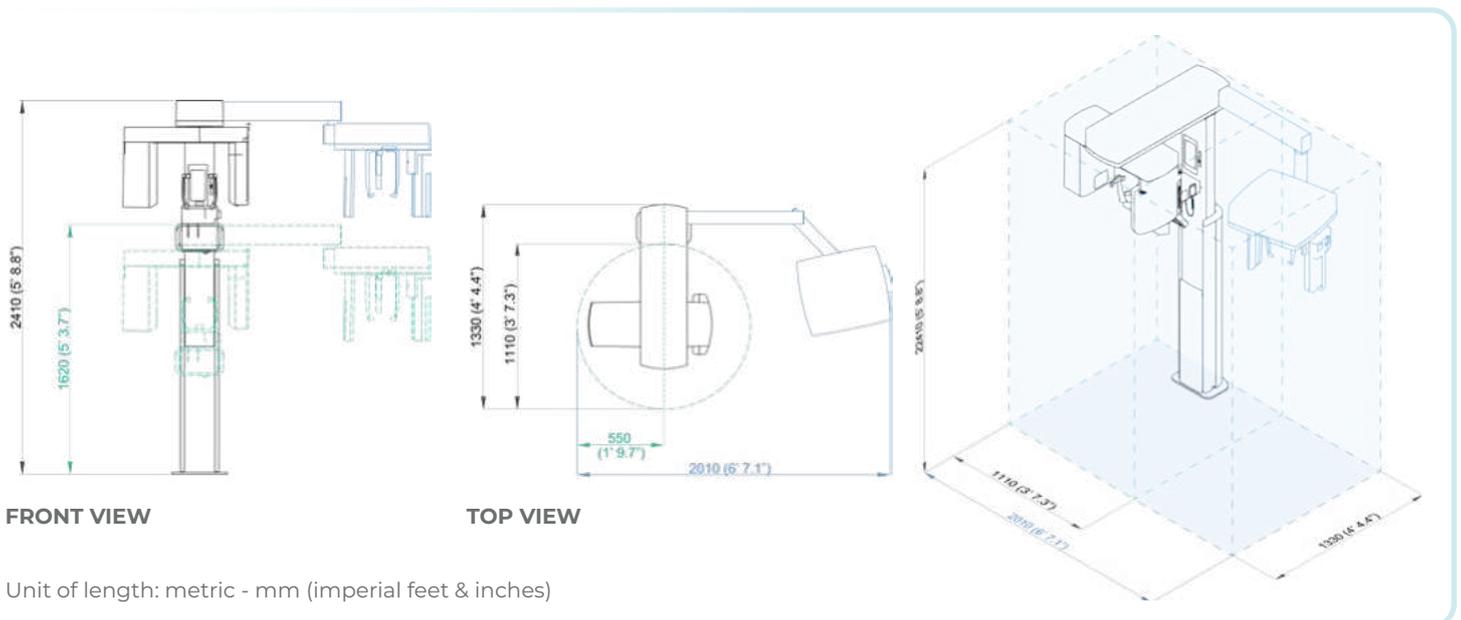
MINIMUM REQUIREMENTS

For optimal performance, we recommend that the computer connecting to *Saevo image* 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

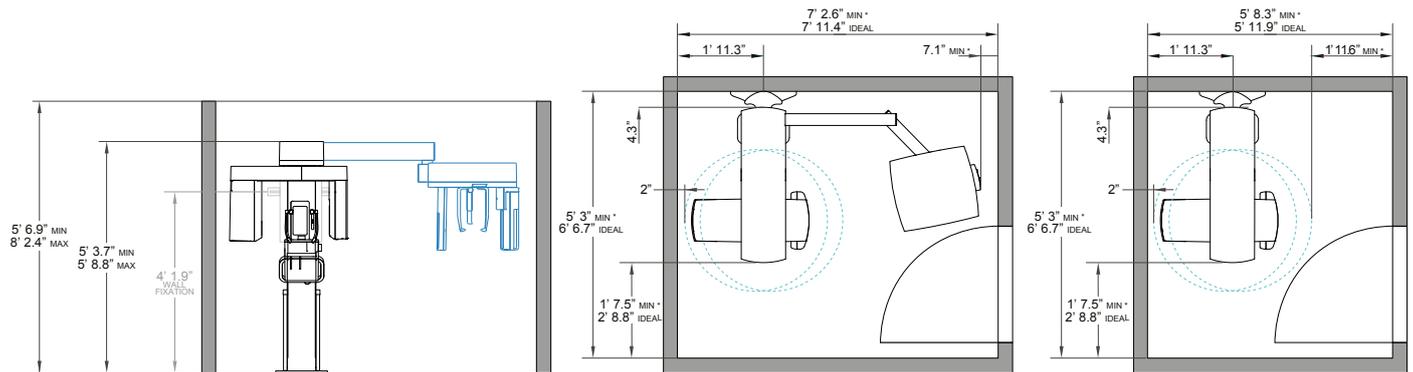
*Compatible with PCI Express and NVidia card connectors.

DIMENSIONS

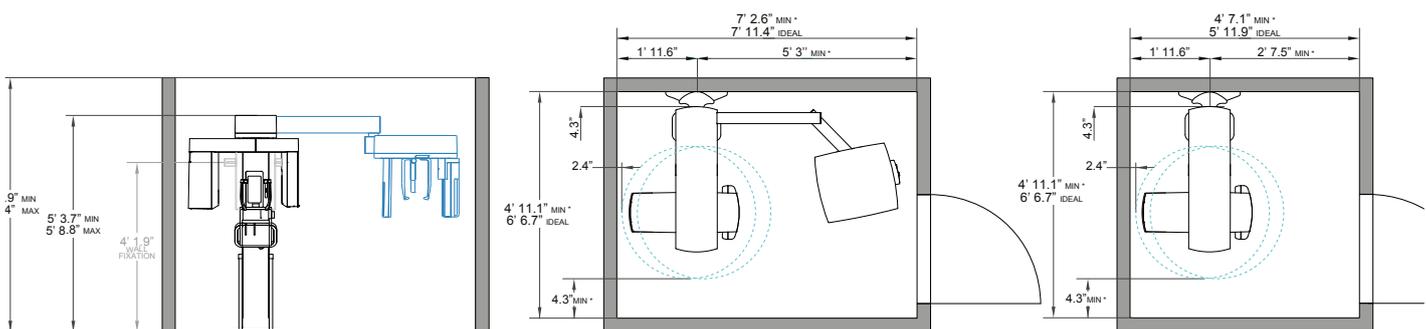


RECOMMENDED ROOM SIZE

Imperial dimensions



Metric dimensions



* 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.



a member of the Alliage group



www.saevo.com.br

SXR is an Alliage brand of *Dental CT Scanner AXR*, as registered by Anvisa 10101130088. Dental Imaging Software – *Saevo Image* 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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