ORTHOPANTOMOGRAPH™ OP 3D™ EX

Expand your treatment offering
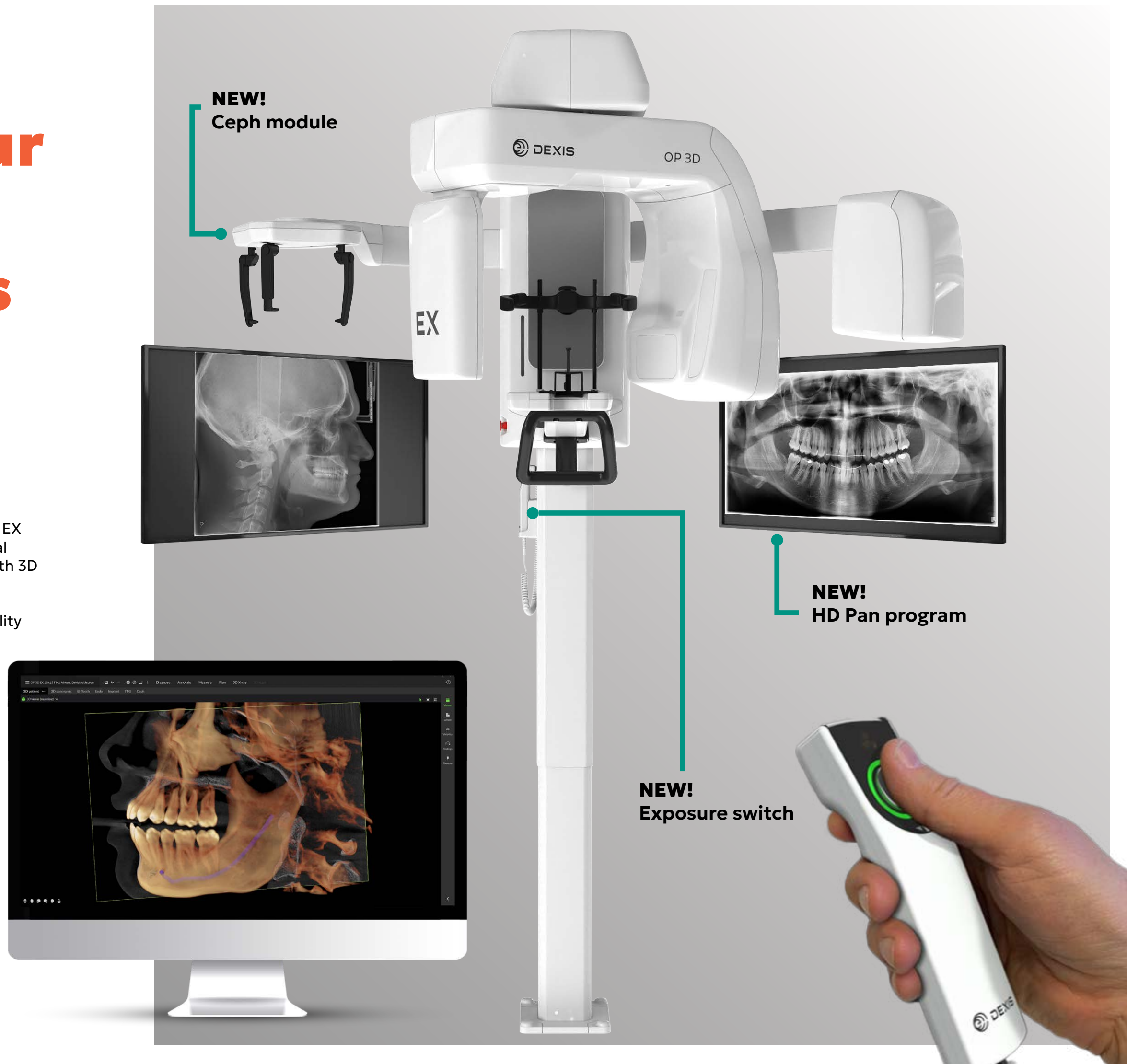
DEXIS

OP 3D

EX

DEXIS

Expand your diagnostic capabilities with 3D imaging

Built on the OP 3D family technology, the OP 3D EX is a complete x-ray platform designed for general practitioners looking to expand their practice with 3D imaging.

The OP 3D EX makes it easy to capture high-quality images with fast scan times while providing user-friendly features throughout the entire dental imaging workflow. You can analyze clear, accurate 3D scans and diagnose with confidence thanks to the flexible field of view sizes and advanced filters, both in the device as well as within DTX Studio™ Clinic. Examples of some filters include Metal Artifact Reduction (MAR), Implant Contrast Enhancement (ICE), and Edge-Preserving Noise Reduction (EPNR).

The OP 3D EX is now completely upgradable to cephalometric imaging.

Benefit from the innovative, patented ORTHOceph™ Plus design that takes your cephalometric imaging workflow to a new level.

NEW!
Ceph module

NEW!
HD Pan program

NEW!
Exposure switch

DEXIS   OP 3D

Tailor your images to your diagnostic needs

Flexible FOV options

Help your staff capture what you truly need to see in your diagnostic images with a wide range of customizable field of view (FOV) options ranging from 5 x 5 cm to 10 x 15* cm and adjustable volume height with low dose, standard, endo and high resolutions.

With 6 preset FOVs and 66 customizable volume sizes, you can achieve great diagnostic output at the lowest reasonable dose.

5 x 5 cm
Localized diagnostics
Endodontic evaluation, single implant sites, and pathoses

6 x 9 cm
Single arch
Implant planning and impacted canines

8 x 8 cm
Compact dual arch
Mandibular and maxillary treatment planning of dental implants

10 x 10 cm
Complete dentition
Mandible and maxilla with 3rd molar region, and lower maxillary sinuses — ideal for multiple implants or periodontal evaluation

10 x 11 cm
Enhanced third molar assessment
Ideal for abnormal/impacted third molars and larger jaws. Expanded diameter for horizontally impacted or distally presenting third molars
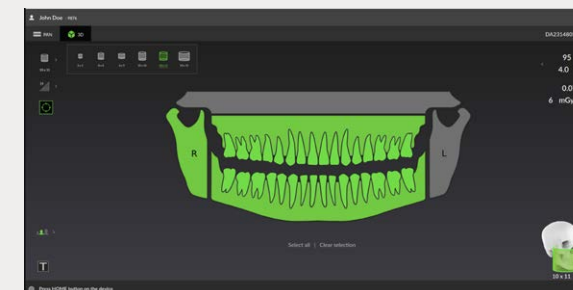
10 x 15 cm
Dentition and bilateral TMJ
Maxillofacial complex/mandible and maxilla, bilateral TMJ, sinus and pharyngeal airway

*10x15 cm optional field of view size.
All field of view (FOV) displayed are height x diameter.

Fast, accurate image capture
4 easy steps

Simplify the training of new team members on your image capture workflow using a streamlined interface and straightforward process.

Step 1

User-friendly interface

Visually choose your area of interest from a user-friendly, straightforward interface.

Step 2

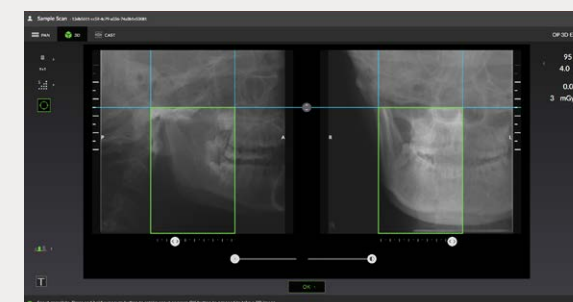**Secure patient positioning and stabilization**

A newly designed head support helps you quickly find the ideal patient position and helps your patient remain still during exposure.

Step 3

Accurate image capture

Use the optional scout to preview and modify the area of interest without having to reposition the patient or even open the viewing software.

Step 4

Fast scan times

The OP 3D EX has, on average, 30% faster overall scan times and 50% faster low dose scan times.*

*Compared to OP 3D. Data on file.

Capture consistent high-clarity images

Advanced image algorithms

Gain greater insights into root anatomy, proximity to critical structures, implant visualization and osseointegration. Diagnostic efficacy can lead to predictable outcomes.
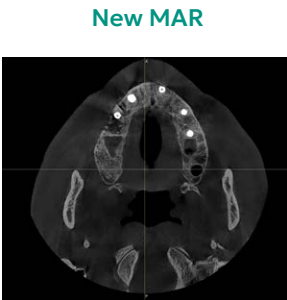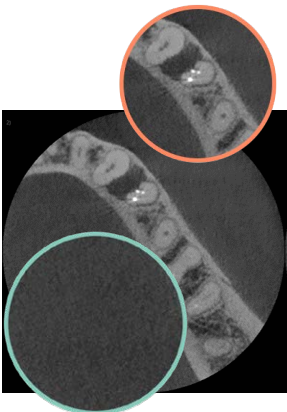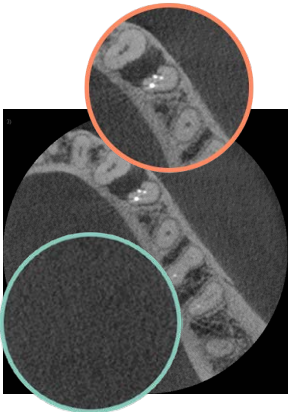
Without ICE | With ICE

Implant Contrast Enhancement (ICE)

Clearly visualize implant surroundings and inner structure when inspecting previously placed implants or performing post-operative scans.

Original OP 3D MAR | New MAR

Updated Metal Artifact Reduction (MAR)

Minimize metal-induced artifacts, resulting in clearer, more accurate images.

Edge-Preserving Noise Reduction (EPNR)

Effectively reduce noise in anatomical x-rays while preserving sharp edges, ensuring enhanced image quality even in the presence of metal or other artifacts.

Without EPNR | With EPNR

Create an automated surgical template in less than 3 minutes*

DTX STUDIO™

Gain access to the award-winning DTX Studio Clinic, your AI-driven diagnostics and treatment planning software, tailored specifically for implant workflows.

Create efficient diagnoses, collaborate with partners, and leverage implant-specific treatment planning tools like the comprehensive implant library, navigated surgery and automated surgical guide creation.

" The new OP 3D™ EX has significantly improved my workflow. The image quality is excellent, the DTX Studio™ Clinic software is easy to use and the image elaboration very precise, allowing me to make quick and accurate diagnoses. With this device, I can work more efficiently and with greater confidence."

Dr. Massimo Saratti, Switzerland
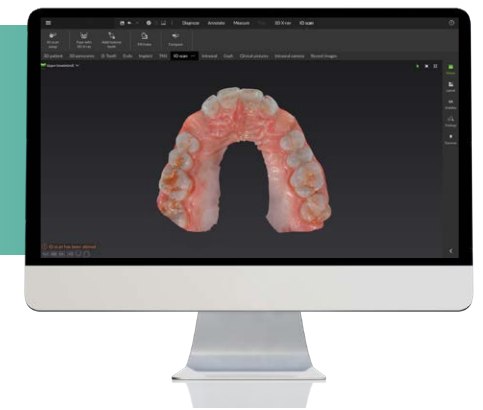
*data on file

Automated case setup

MagicAssist™ automates the 6 steps of the CBCT setup process - detecting landmarks for auto-setup, patient orientation and FOV, lower and upper pan curves, TMJ workspace, tooth recognition and numbering, and automated tracing of mandibular nerve canal.
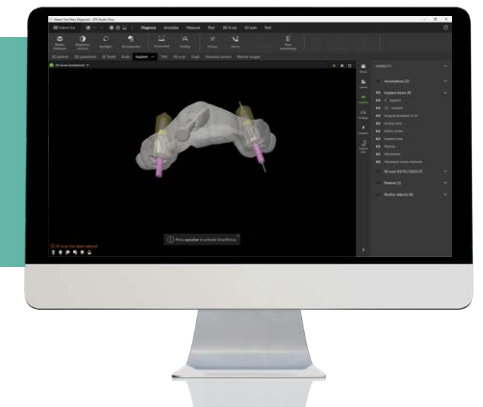
Virtual tooth extraction

Virtually extract one or more teeth and generate accurate surface data to assist you in the creation of a precise surgical guide for immediate implant placement.
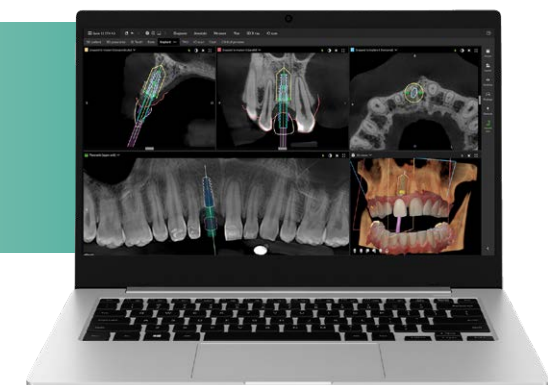
Automated surgical template creation

Automatically generate a surgical template, full surgical report, assembly instructions and exportable STL file —which can be ordered or printed in-house for same-day surgery.

Implant and abutment libraries

Choose from a library of over 29 implant brand families (more than 4,500 implants) along with abutments, sleeves, and anchor pins.
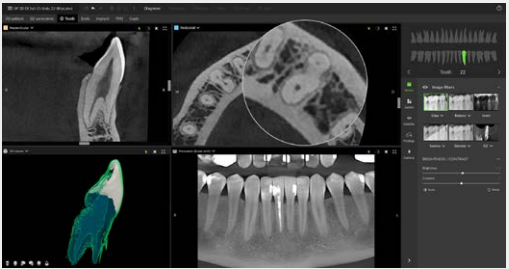
Automate your processes with AI

DTX Studio Clinic streamlines your diagnostics by preparing CBCT images, automatically annotating features like tooth positions, panoramic curves, and tracing the mandibular nerve canal—saving you precious time and effort.
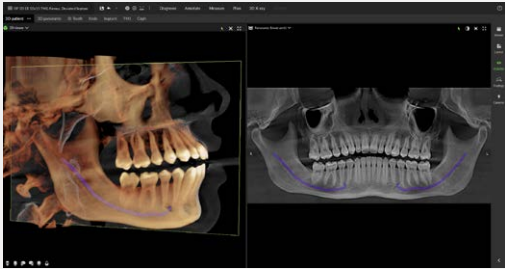

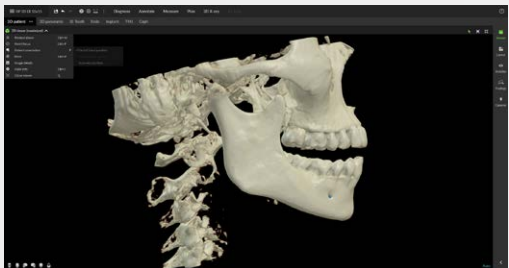Automatic focal trough

Auto 3D tooth positioning

Tooth-centric navigation workflow

Automated tracing of mandibular nerve canal

Patient positioning correction

AI-powered fusion of CBCT and intraoral scans

Keep your equipment operating smoothly

Benefit from an optional 10-year warranty coverage for your DEXIS CBCT device.*

"With my old unit, if the patient moved, even a little, it was a huge problem. The OP 3D EX forgives a lot of what would have been mistakes. Even in the very first photos I took with the OP 3D EX, I saw a significant difference in quality compared to my old unit."
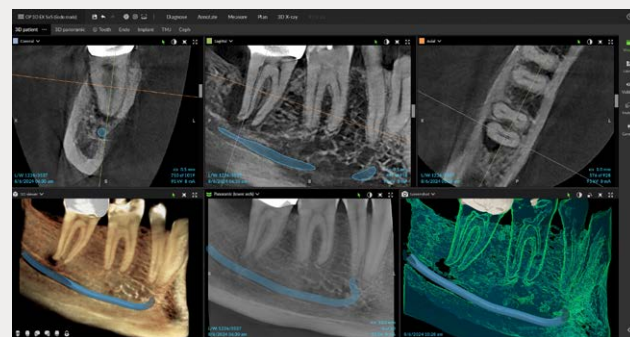
Dr. Michał Kowalski, Poland

DEXIS OP 3D

EX

10 YEARS WARRANTY

DTX STUDIO™

*Terms and Conditions apply.
Not available in all regions

Expand your treatment offering

Implant Placement

The OP 3D EX and DTX Studio Clinic enable you to expand your clinical applications, by allowing for multiple views of your patient scans, presurgical assessments of anatomy, and support for the placement of accurate and precise implants.
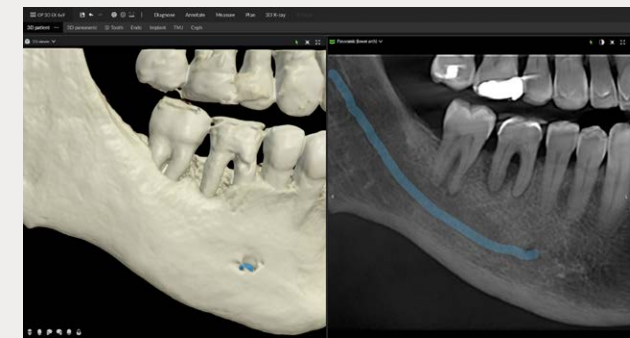

Endodontics

With its dedicated endo resolution (80µm) and precise scan positioning that can easily be centered on an individual tooth, the OP 3D EX has been optimized to help visualize the fine details, which can be critical to endodontic diagnostics and planning.

NEW! Orthodontics

The OP 3D EX with ceph modality provides all necessary protocols such as lateral and pediatric lateral projections (with adjustable field widths from 16 cm to 26 cm), posterior-anterior (PA) projections and carpus* imaging — all with fast scan times and at a limited dose.
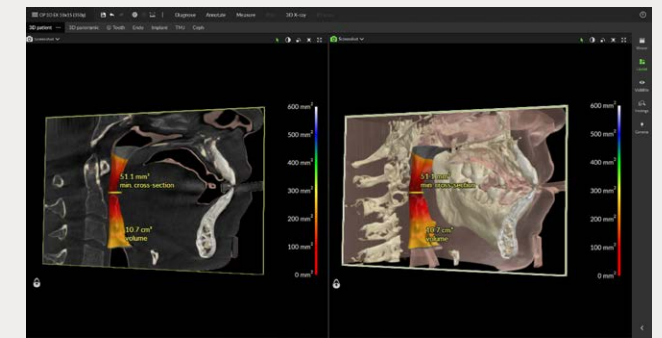
*Carpus is an optional imaging program

Periodontics

From implant placement to surgical options for the management of bone loss, the OP 3D EX flexible field of view options allow you to perform a thorough analysis of bone structure as well as sinus and nerve location.
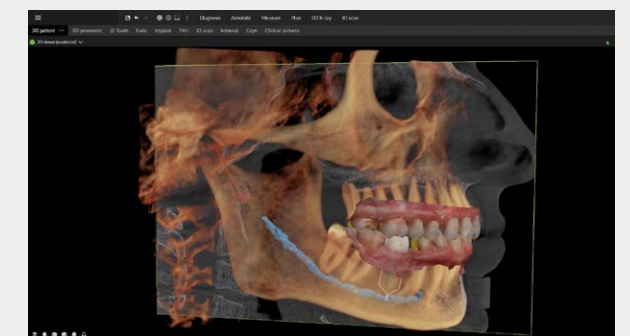

Airway Analysis

With its optional 10 x 15 cm large field of view scan, the OP 3D EX along with DTX Studio Clinic can support the evaluation of the airway in one quick scan. This can help you to detect possible airway issues and determine potential treatment plans like mandibular advancement devices, orthodontic expansion or orthognathic surgery.
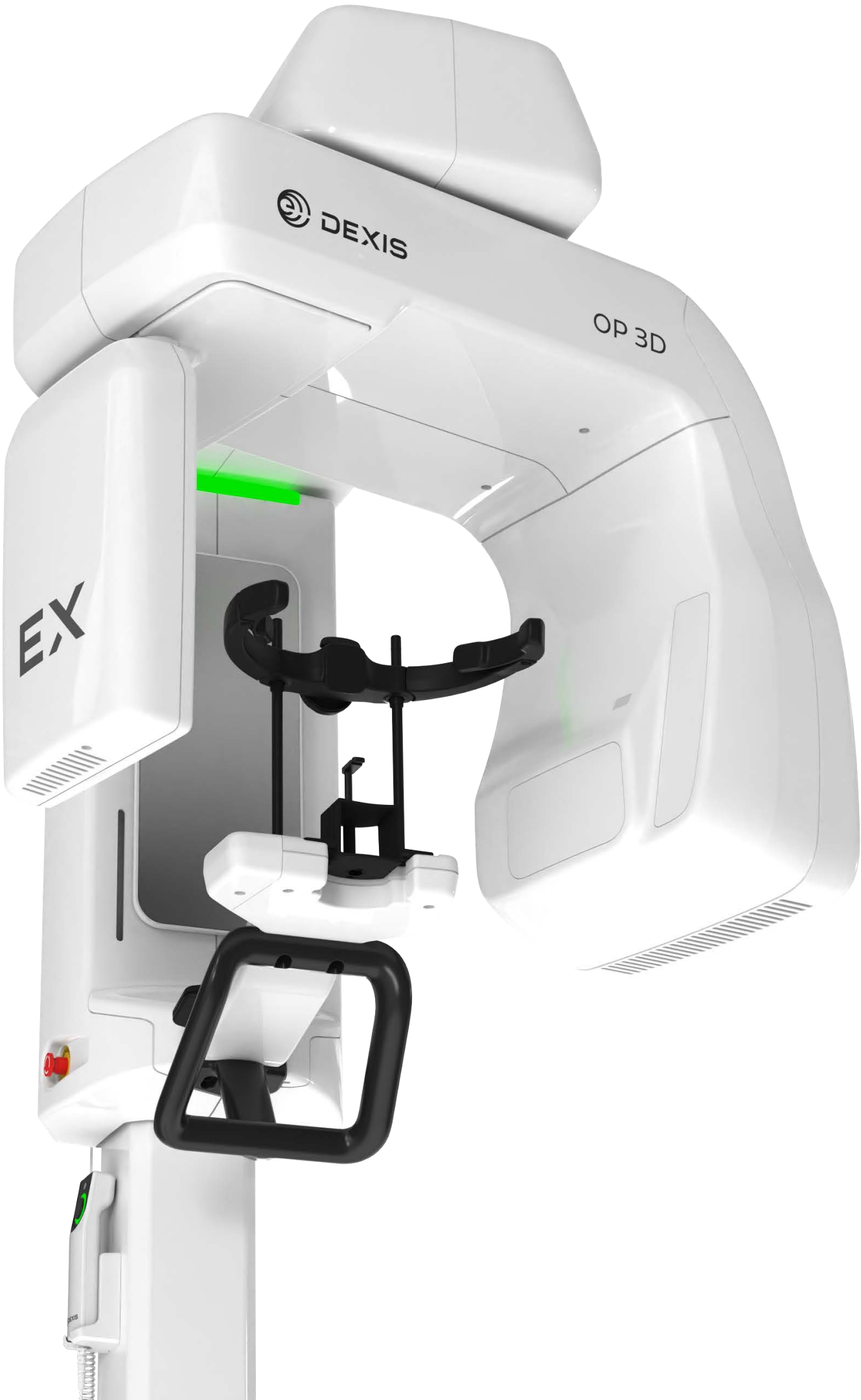

TMJ Analysis

Ensure proper joint positioning prior to orthodontic planning and evaluate condylar and occlusal changes. The OP 3D EX bilateral visualization of the temporomandibular joint allows you to assess the position within the fossa, degenerative changes to the hard tissue, and to assess the vertical dimension on larger prosthetic cases.

Prosthodontics

Capture high-resolution 3D scans to support diagnostic clarity for treatment planning, surgical, and prosthodontic applications of implant dentistry. The OP 3D EX along with DTX Studio Clinic support the ultimate visualization by allowing practitioners to merge 3D data with intraoral surface scans for a complete visualization of the patient anatomy.
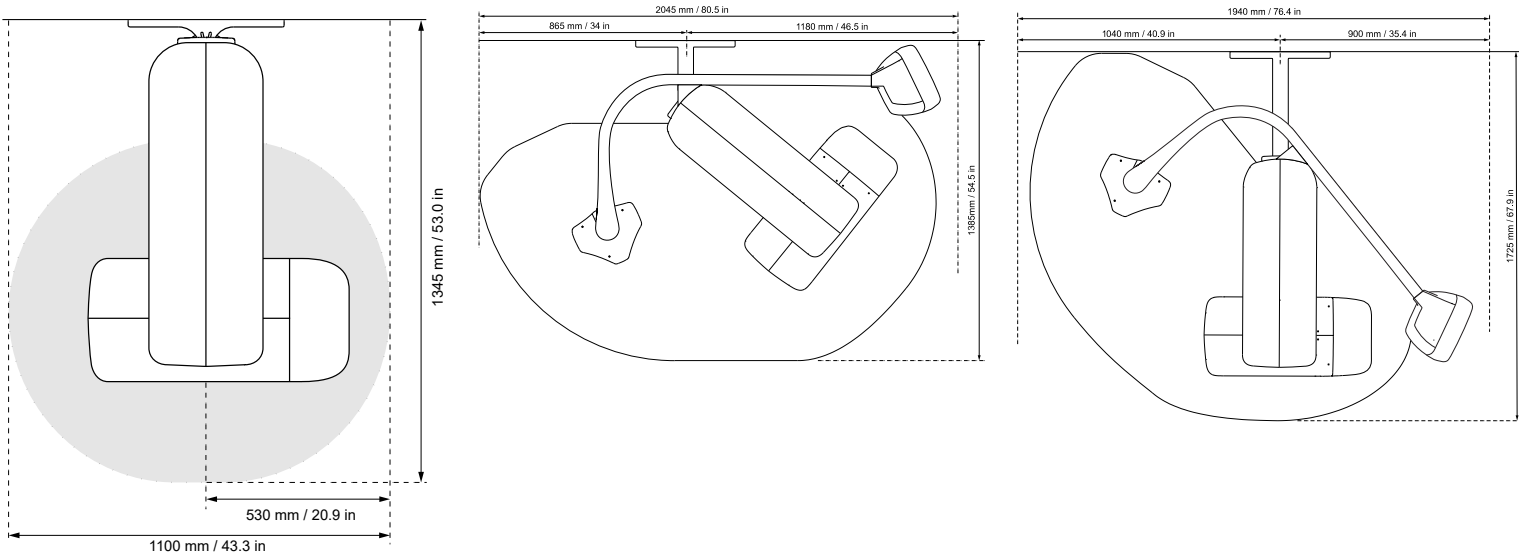
Technical specifications

Focal Spot	0.5 (IEC 60336/2020)
Tube Voltage	60 – 95 kV
Tube Current	2 – 16 mA
HU Capacity	35 kJ, 49 000 HU
Minimum Total Filtration	3.4 mm Al @ 95 kV
Wheelchair Accessible	Yes
DICOM Support	Yes
Min. Room Height	2110 mm

2D	Panoramic	Cephalometric
Image Detector	IGZO TFT	IGZO TFT
Sensor Pixel Size	95 μm	95 μm
Image Pixel Size	95 μm	95 μm
Exposure Time*	1.4 - 15.0 s (Standard Pan 9.0 s)	6.9 – 11.3 s
Image Field Height	116.7 - 159.6 mm	180.0 – 235.9 mm
Imaging Programs**	Standard, Pan HD, segmented standard, pediatric, segmented pediatric, bitewing, TMJ, lateral	Lateral, pediatric lateral, PA, carpus
Weigth	120 kg / 265 lbs	155 kg / 342 lbs

3D	CBCT
Image Detector Image	IGZO TFT
Voxel Size	80 – 400 μm
Exposure Time*	0.9 - 19.4 s
Scan Time	5.5 - 19.4 s
Image Volume Sizes (HxD)	5x5 cm, 6x9 cm, 8x8 cm, 10x10 cm, 10x11 cm, 10x15 cm (optional)
	Volume height adjustable to offer a total of 66 customizable FOV options

* Exposure time with Medium size patient.
**The availability of different FOV sizes may vary by country.

Minimum System Requirements for 3D Acquisition Workstation

CPU (Processor)	Intel Core i5, i7 or Xeon, 4-cores or more
GPU (Graphics Processing Unit)	NVIDIA Quadro P1000, T1000, M2000, K2200 4 GB NVIDIA GeForce GTX 1650, 1050 Ti 4 GB
RAM (Memory)	16 GB or more
Storage (Hard Disk)	1 TB or more
Network	Gigabit Ethernet 1000Base-T
Operating System	Windows 11 Pro or Enterprise 64-bit Windows 10 Pro or Enterprise 64-bit
Display	1920 x 1080 (Full HD) resolution or higher
Notes	Please refer to software and device installation manuals for detailed requirements.

Unit dimensions

1345 mm / 53.0 in
530 mm / 20.9 in
1100 mm / 43.3 in

2045 mm / 80.5 in
865 mm / 34 in
1180 mm / 46.5 in
1385mm / 54.5 in

1940 mm / 76.4 in
1040 mm / 40.9 in
900 mm / 35.4 in
1725 mm / 67.9 in

Note: Please refer to the user guide for more detailed measurement information.

About DEXIS

DEXIS has brought together some of the most recognized CBCT brands in the industry, including Instrumentarium, SOREDEX™, Cranex, Gendex™ and the well-known i-CAT™. With over 17,000 successful installations in the last 15 years, DEXIS OP 3D solutions lead the industry in reliable performance and innovation.

DEXIS is the global leader in dental imaging. We bring together the most trusted brands in 2D and 3D imaging, intraoral scanning solutions, and diagnostic software, in one connected and AI-powered ecosystem. Our innovative and award-winning technologies use smart simplicity to increase productivity and enhance diagnostic confidence.

Diagnostic confidence, productivity, and smart simplicity for you and your team