DEXIS



OP 3D EX

Expand Your Imaging

Advanced 3D imaging designed for precision, versatility, and confidence in clinical decision-making.

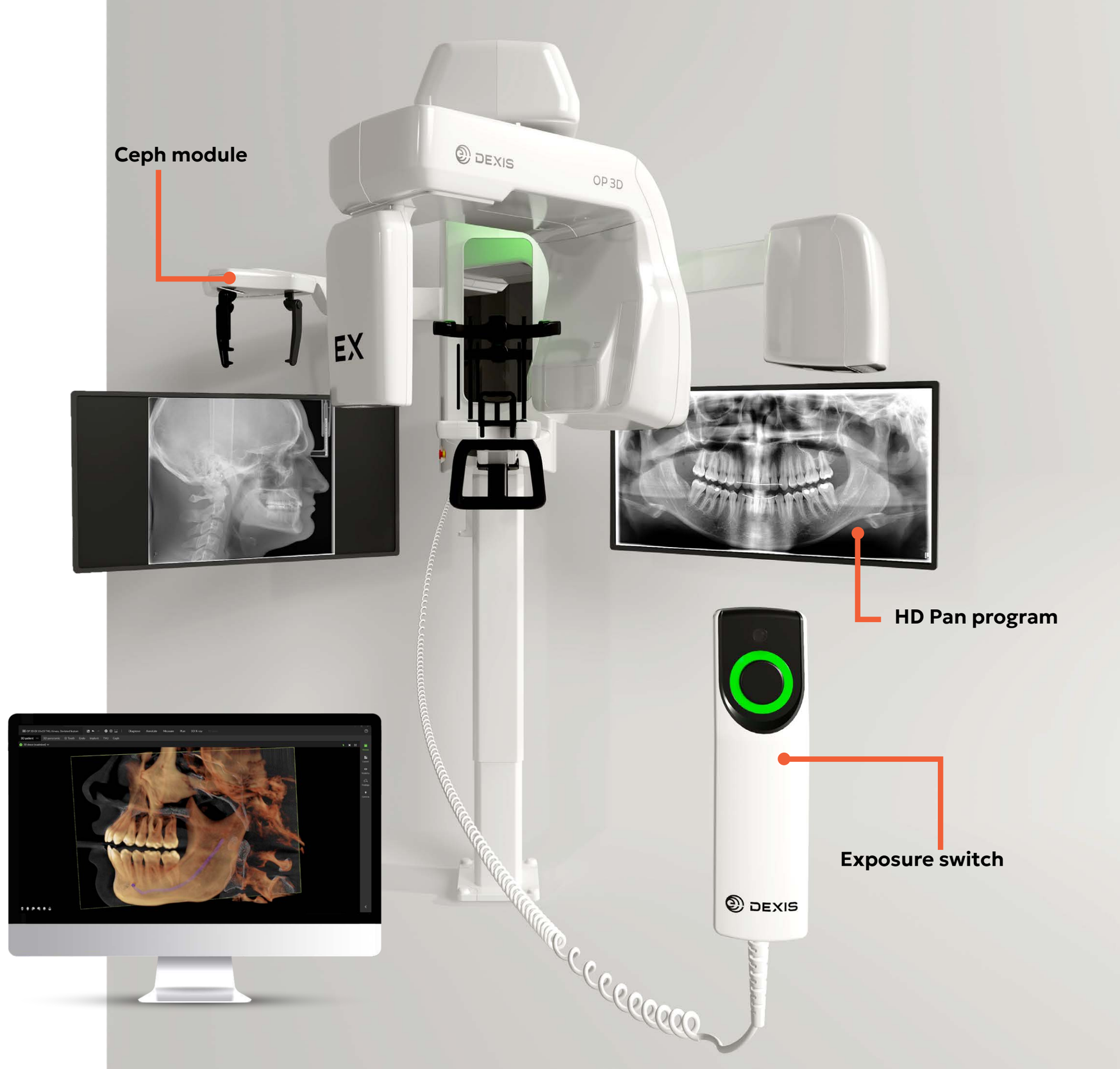
Expand your diagnostic capabilities with 3D imaging

Built on the OP 3D family technology, the ORTHOPANTOMOGRAPH™ 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.



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

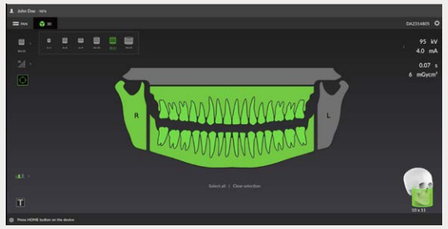
Dentition and bilateral TMJ
Maxillofacial complex/mandible and maxilla, bilateral TMJ, sinus and pharyngeal airway

*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.

Automatic Dose Control (ADC)

Automatically measures your patients' anatomy and sets exposure values for optimal image quality and dose.

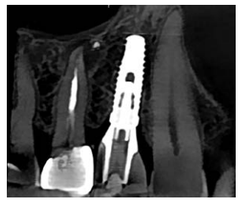


Capture consistent high-clarity images

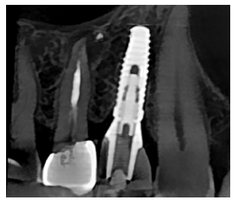
Advanced image algorithms

Gain greater insights into root anatomy, proximity to critical structures, implant visualization and osseointegration. Diagnostic efficacy can lead to predictable outcomes.

Without ICE



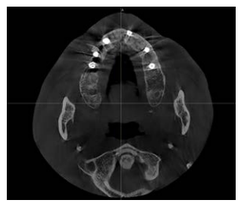
With ICE



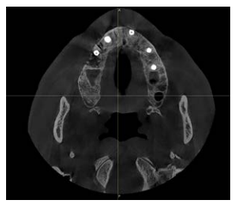
Implant Contrast Enhancement (ICE)

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

Original OP 3D MAR



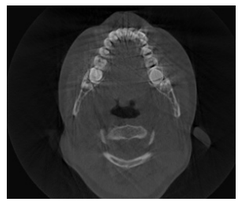
New MAR



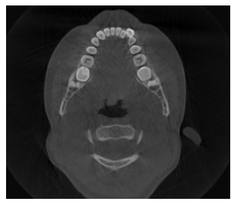
Updated Metal Artifact Reduction (MAR)

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

Original

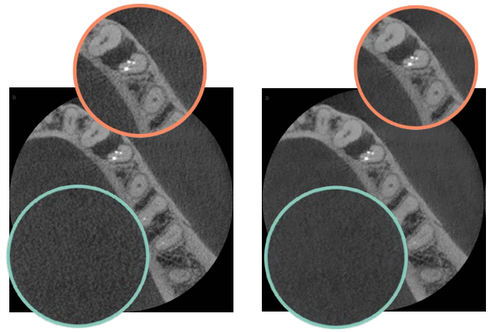


With Motion correction



Motion correction (MC)

Stay focused, even when patients move. Motion Correction helps minimize movement-related artifacts in images, supporting clearer visualization and helping preserve image usability when patient movement occurs.



Without EPNR

With EPNR

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.





"When choosing a CBCT, the key factors for me were a large sensor, predictable acquisition, stellar image quality and intuitive software that wouldn't interrupt my workflow. Once the OP 3D EX got here and we started taking some scans, I thought to myself, 'We made the right choice!"

Dr. Tyler Tolbert | USA

Create an automated surgical template in less than 3 minutes*



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.



We were able to implement the OP 3D EX quickly and start taking scans largely due to the included DTX Studio Clinic software. Once we got going, we found that so much of the work involved in prepping a 3D scan for confident diagnosis was done by the software automatically."

Dr. Nicholas Varney | USA

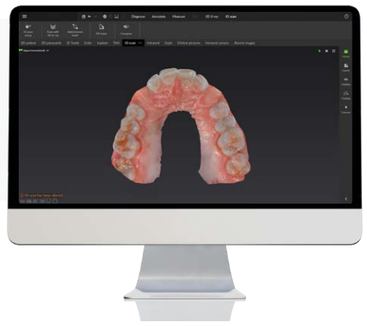
*data on file

Automated case setup



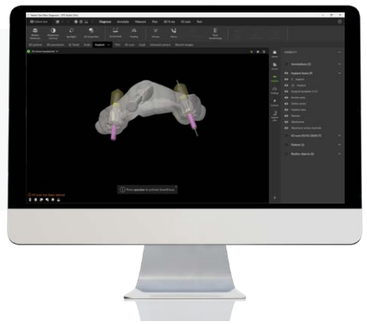
MagicAssist™ automates the 6 steps of the CBCT setup process - detecting landmarks for auto-setup, patient orientation and FOV, lower and upper pan curves, TMJ workspace, tooth recognition and numbering, and automated tracing of mandibular nerve canal.

Virtual tooth extraction



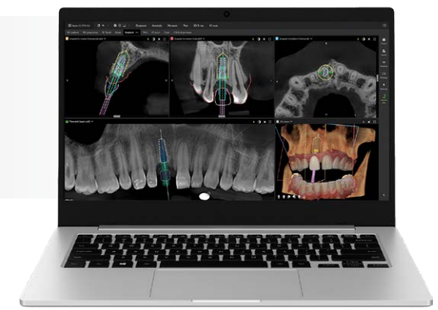
Virtually extract one or more teeth and generate accurate surface data to assist you in the creation of a precise surgical guide for immediate implant placement.

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.

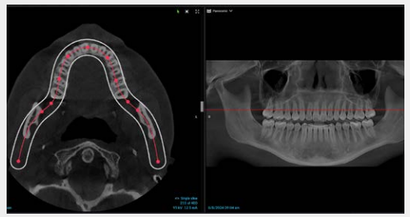
Implant and abutment libraries



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

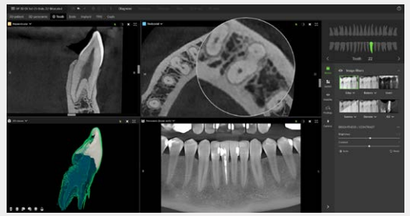
DTX Studio Clinic streamlines your diagnostics by preparing CBCT images, automatically annotating features like tooth positions, panoramic curves, and tracing the mandibular nerve canal—saving you precious time and effort.



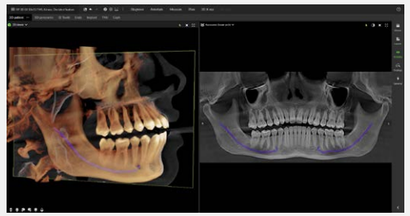
Automatic focal trough



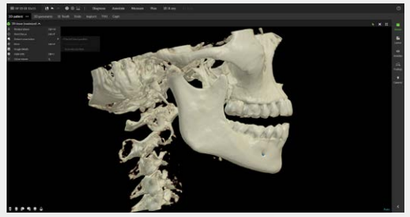
Auto 3D tooth positioning



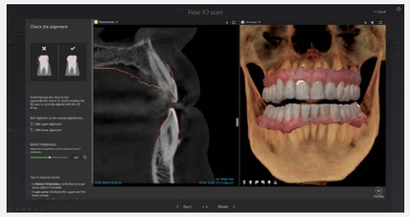
Tooth-centric navigation workflow



Automated tracing of mandibular nerve canal



Patient positioning correction



AI-powered fusion of CBCT and intraoral scans

DTX STUDIO™

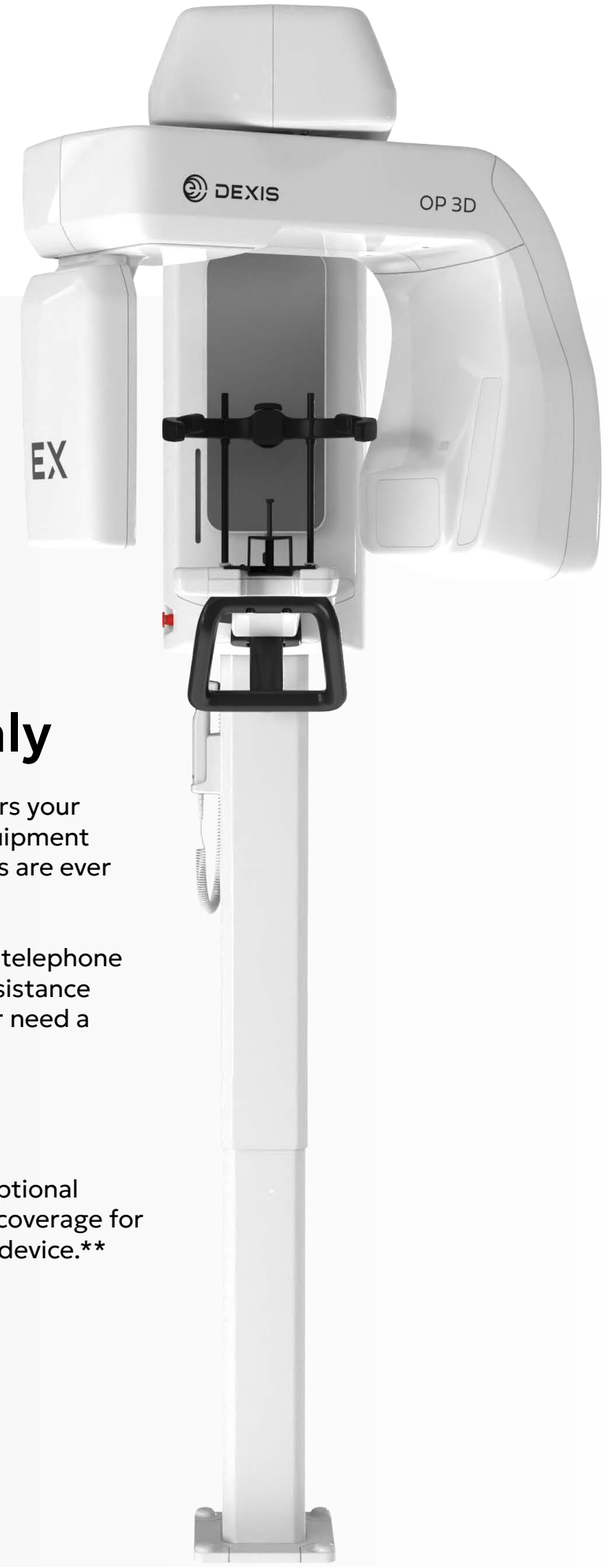
Keep your equipment operating smoothly

DEXIS Connect Pro* proactively monitors your OP 3D EX and schedules support or equipment part replacements if performance issues are ever detected.

Automatic software updates, unlimited telephone support and remote online technical assistance are also available to you should you ever need a helping hand.*

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

*DEXIS Connect pro not available in all regions. Depending on region, certain features may only be available through paid SLA plan.
**Terms and Conditions apply. Not available in all regions.

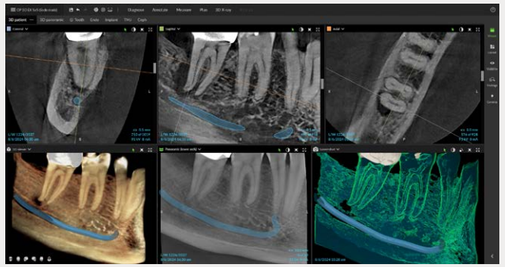


Expand your treatment offering



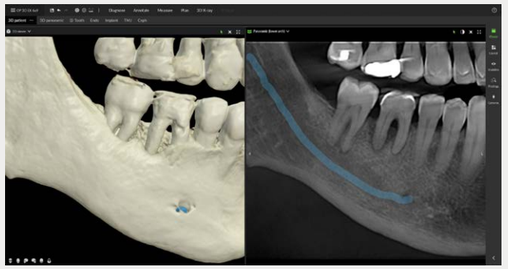
Implant Placement

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.



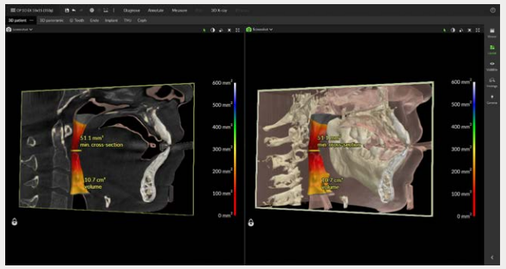
Endodontics

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.



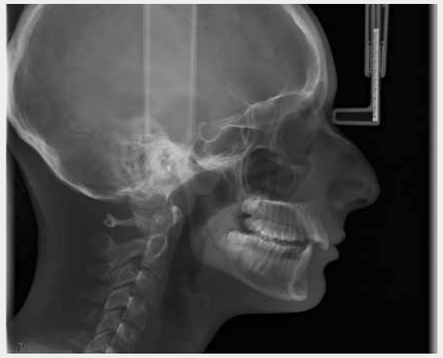
Periodontics

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.



*Carpus is an optional imaging program

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.



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

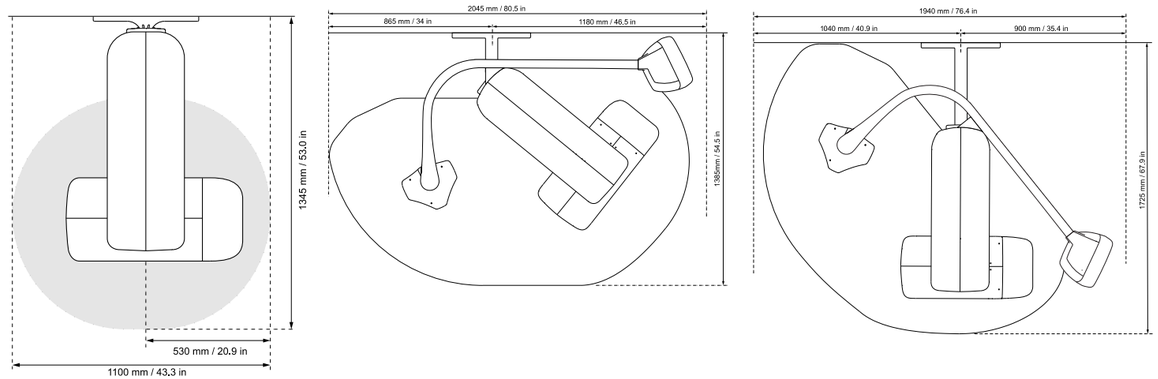
3D	**CBCT**
Image Detector Image	IGZO TFT
Voxel Size	80 – 400 µm
Exposure Time*	0.9 - 19.4 s
Scan Time	5.5 - 19.4 s
Image Volume Sizes (HxD)	5x5 cm, 6x9 cm, 8x8 cm, 10x10 cm, 10x11 cm, 10x15 cm (optional)
	Volume height adjustable to offer a total of 66 customizable FOV options

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.

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

Unit dimensions



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



Why Clinicians Choose DEXIS

17K

Over 17,000 OP 3D units successfully installed in clinics around the world**

31%

31% market share - the highest 3D device market share in the United States*

About DEXIS
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.

The products, equipment and services illustrated and described in this brochure reflect knowledge at the time of printing. Full or partial reprinting is only permitted with permission from Dental Imaging Technologies Corporation.
For more information, please visit: DEXIS.com.

Dental Imaging Technologies Corporation reserves the right to make changes to specifications and features shown herein, or to discontinue the product described at any time without notice or obligation. Contact your local authorized representative for the most current information.

The opinions presented are those of the doctors featured in this material. Dental Imaging Technologies Corporation is a medical device manufacturer and does not dispense medical advice. Clinicians should use their own judgment in treating their patients.

Clinical images courtesy of: Ken Parrish DMD, Louisville, KY; Matt Viera DDS, MS, Louisville, KY; Andrew Kurialacherry DMD, Lone Tree CO; Farshad Rouhani, DMD, Scottsdale, AZ; David Fantarella, DMD, North Haven, Connecticut; Brandon Hunt DDS, Redmont, OR; Paul Zaritsky, DDS MD; Lakeland, FL; Tyler Tolbert, DDS FICOI, West Richland, WA; Dr. Nicholas Varney, Springfield IL; Dr. J. Ryan Palmer and Dr. Samuel C. Page, DDS, Jerome, ID; Dr. Mathieu Rousset, Malemort, FR; Vincent Rodriguez, Toulouse, FR

© Dental Imaging Technologies Corporation. ORTHOPANTOMOGRAPH, OP, OP 3D are a trademark or registered trademark of PaloDEx Group Oy in the United States and/or other countries. DTX Studio is a trademark or registered trademark of Nobel Biocare Services AG in the United States and/or other countries. All Rights Reserved. 2026 DXIS00690/Rev03