

ORTHOPANTOMOGRAPH™ OP 3D™ Vision

The upgradable 3D X-ray system
for the strictest demands



The solution for every task: DEXIS ORTHOPANTOMOGRAPH OP 3D Vision

Regardless of which dental query you may have, the DEXIS ORTHOPANTOMOGRAPH™ OP 3D Vision X-ray system is the answer. Thanks to the high 3D precision and flexible planning and application tools, the three upgradable versions will exceed your expectations for almost all requirements. Whether it is for implantology, surgery, endodontics, TMJ, respiratory path analysis or orthodontics. Even with complex indications, a quick diagnosis and simple creation of treatment plans is ensured.

Based on the technology of i-CAT™ systems – awarded with numerous international prizes for innovation and technology:

3x



5x Gold

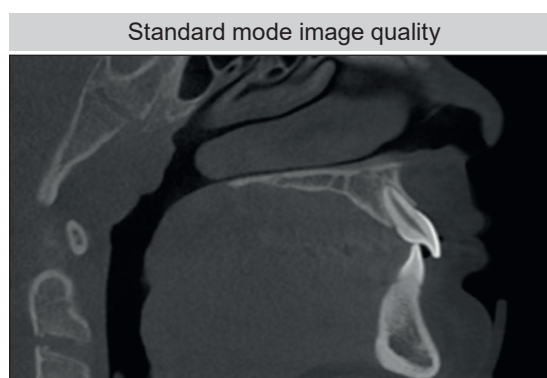
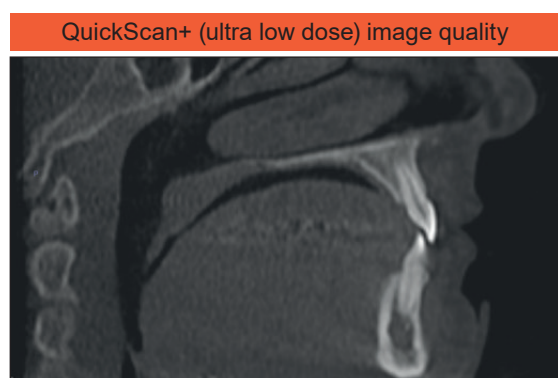
dental townie choice awards.

TOP 100
DENTAL PRODUCTS REPORT

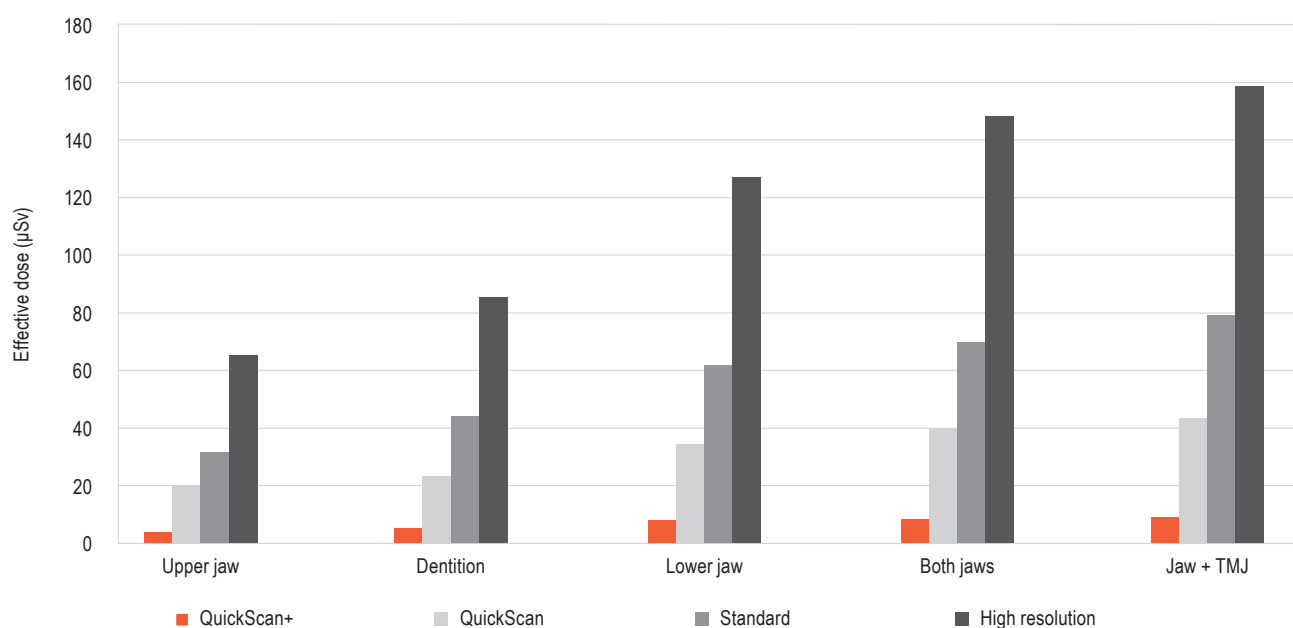


Image quality with less radiation: Low Dose Technology™ with QuickScan+

With the QuickScan+ option, you can create 3D X-ray volumes with good image quality in terms of diagnosis at a highly reduced dose when compared with standard 3D exposures. This function is ideal for sensitive X-ray scenarios, such as post-op exposures, implant planning and exposures of children. The QuickScan+ exposures, with just 4.8 seconds scan time, are available after roughly only 30 seconds reconstruction time.



DEXIS OP 3D Vision — dose of adult phantom*



* From the study "Phantom dosimetry and image quality of i-CAT™ FLX CBCT".
John. B. Ludlow, University of North Carolina, School of Dentistry, 2013

Flexibility with nine volume sizes

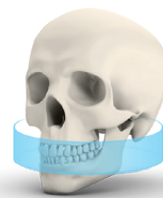
The DEXIS OP 3D Vision, with 9 FoV sizes and various low-dose settings, offers great flexibility when choosing the exposure mode. With volume sizes from 5 x ø 8 cm, 4 to 13 x ø 16 cm, up to 17 x ø 23 cm, you have a wide range of options. You can choose between three upgradable versions, based on true clinical needs: V8 includes volume sizes 5 x and 8 x ø 8 cm. V10 offers additionally 4 x, 6 x, 8 x and 10 x ø 16 cm. V17 gives you the whole portfolio including 11 x and 13 x ø 16 cm as well as 17 x ø 23 cm.



5 x ø 8 cm



8 x ø 8 cm



4 x ø 16 cm



6 x ø 16 cm

V8



Available
with upgrade

Available
with upgrade

V10



V17



An investment that grows with your practice

Start with the right machine for your practice, and upgrade when you are ready to grow into new areas. The DEXIS OP 3D Vision upgradable platform makes moving to a larger field-of-view seamless.

V8

Ideal for implants, endodontics and most general dentistry.



V10

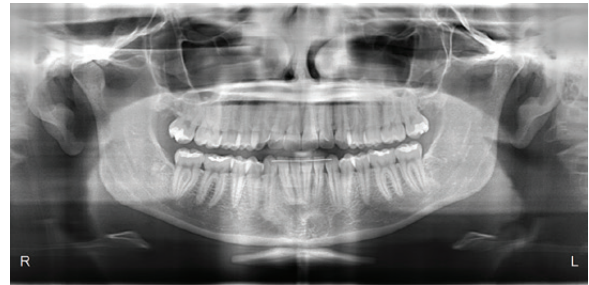
Ideal for implants, periodontics, prosthodontics, airway assessment, TMJ and most OMS.



V17

Most flexibility and image sizes for all 3D needs including orthodontics and orthognathics.

Available on all systems: 2D Pan



The i-PAN feature allows you to take a quick 2D pan using the same high quality sensor that is used to acquire 3D scans. Coupled with software improvements to enhance overall 2D image quality, you can confidently use your DEXIS OP 3D Vision for both your 2D and 3D imaging.



8 x ø 16 cm



10 x ø 16 cm



11 x ø 16 cm



13 x ø 16 cm



17 x ø 23 cm

Available with upgrade

Available with upgrade

Available with upgrade

Available with upgrade

Available with upgrade



Available with upgrade

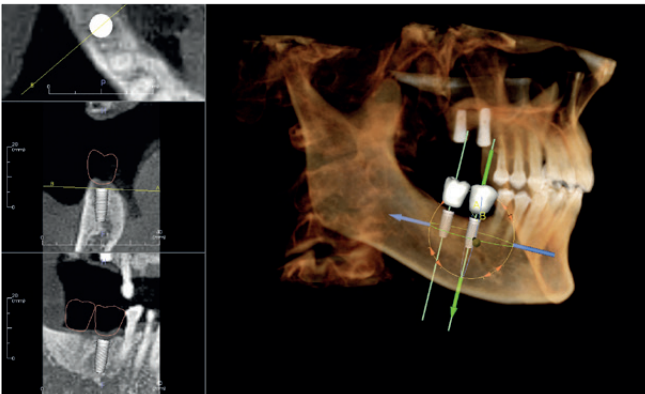
Available with upgrade

Available with upgrade



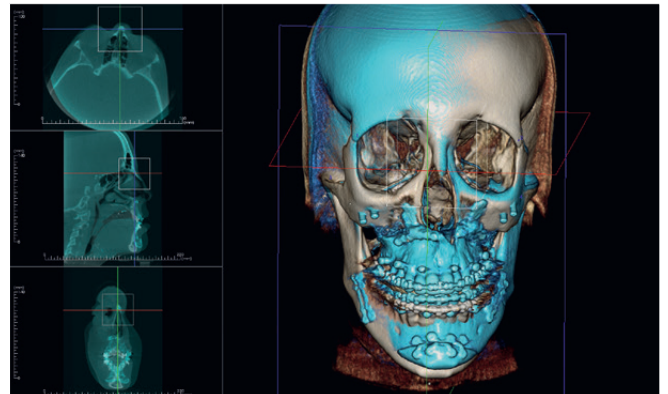
For every indication, the perfect images for precise diagnosis and effective treatment

Implantology: High-precision implant plans



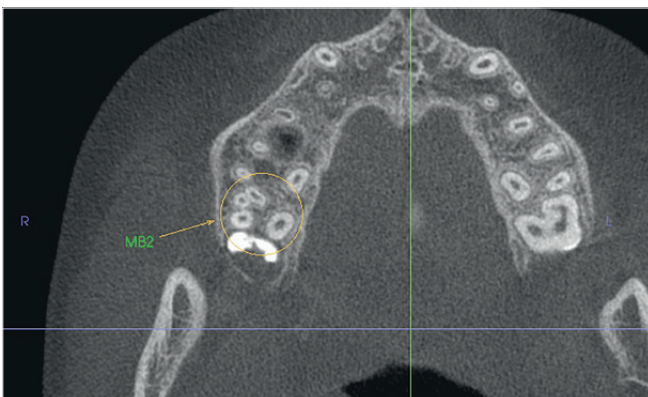
High-resolution CBCT exposures with complete 3D views permit an unrestricted assessment of the bone structure and tooth positions. This means the entire treatment plan can be executed, from inserting the implants and abutments through to delivery.

Oral and MJF surgery: defining surgical treatment plans



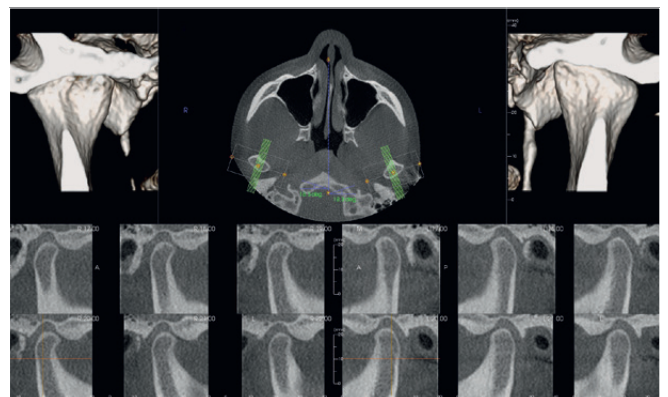
For position determination of displaced teeth in the alveolar bones, as well as their proximity to teeth or vital structures. Support with the detection of disorders such as cysts, tumors, lesions or pathological jaw changes for the avoidance of surgical complications.

Endodontics: Root assessment in three dimensions



For detailed examinations, high-resolution DVT exposures can be used for diagnosis, and observed axially and buccally/lingually with the application software. This allows full assessment of, for example, fractures, root canals and endo-perio lesions.

Gnathology: Individual mandibular joint diagnosis

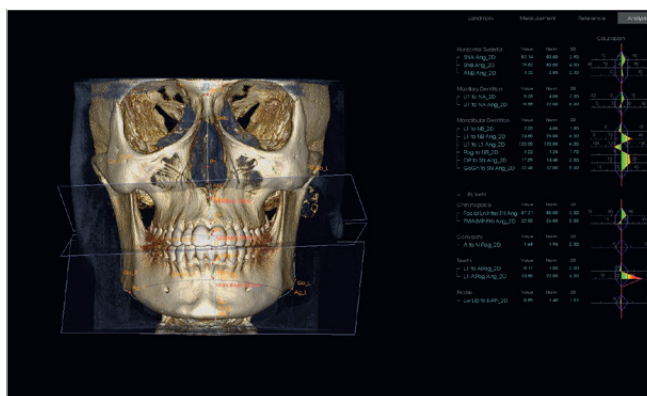


The task: to diagnose mandibular joint anomalies and to develop effective treatment procedures. The solution: With the TMJ display, defects, fractures and wear can be better identified and treated quickly with special, optional software applications.

All the images on this double-page were created with the software InVivo; but can also be created (depending on image database compatibility) with, for example, OnDemand3D™.

Orthodontics: Treatment plans with greater precision

Better understanding of the exact tooth positions and anatomical circumstances allow for the creation of the least-possible invasive treatment plans for the best-possible result. The correct determination of the tooth axes and the identification of surplus teeth and their position simplifies the communication in maxillary surgery and prevents additional surgical measures. Additional application modules such as 3D teleradiographic measurements, virtual studies and impression-free models increase performance. All essential information is available with just a 4.8 second long, low-dose CBCT exposure.



Respiratory passage analysis: Visualisation of restricted airways

The software applications that come with DEXIS OP 3D Vision offer 3D views for visualising obstructions to the airways by means of precise measurements to enable the best-possible treatment. A quick overview on the monitor allows for the measurement and calculation of paranasal sinus conditions for determining treatment options.

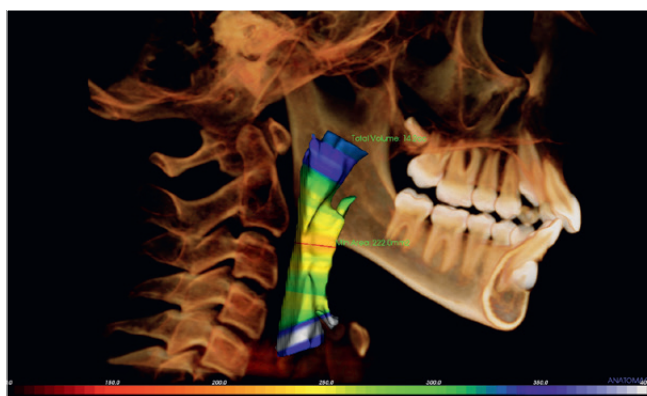
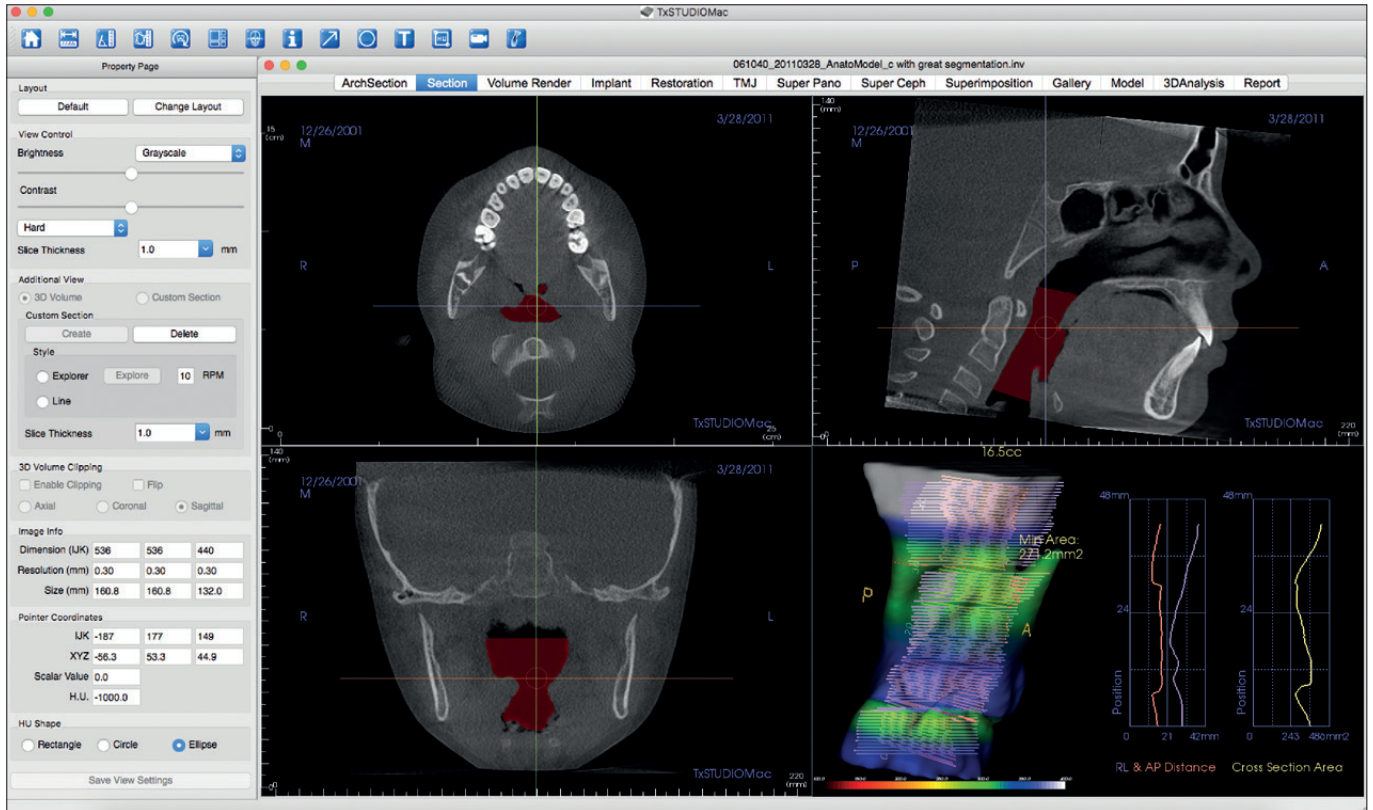


Image quality: A question of technology.



3D images with outstanding clarity

Visual iQuity™ uses specific algorithms for image optimisation. This ensures exposures with a high degree of sharpness and clarity.

Stable patient positioning

The Ergonomic Stability System (ESS) ensures a very high level of comfort when taking exposures. With positioning aids such as light markers and a secure head fixation, loss in quality due to motion artifacts is minimised from the outset.

Broad variety of clinical options

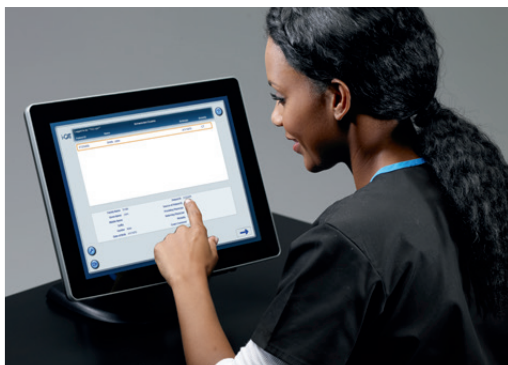
Selectable voxel sizes from 0.125 mm to 0.400 mm allow for personalised, indication-based determination of quality and dose according to the requirements relevant to diagnosis.

Clear depiction, simple operation: SmartScan STUDIO™ touchscreen

A finished exposure in four steps: The SmartScan STUDIO™ operating concept makes the operation simple and quick. Fewer user interfaces with large, clear symbols simplify the selection of exposure parameters.

The programming of frequently used exposure modes (Quickpicks) also reduces the amount of operating steps necessary. The optionally available preview function (ScoutView) allows for precise selection of volume size and position.

1 Patient selection



2 Exposure mode selection (Quickpick)



3 Exposure



4 Image evaluation



Your advantages:

- Quick and easy to learn
- Quickpick for personalized programming
- Only four operating steps until completed exposure
- ScoutView for the highest level of safety

The selection for your requirements: Software applications

Required

InVivo — the performance package

The software solution for 3D image evaluation and analysis, implant planning and drilling template planning and service.

- Implant planning module
- Implant library
- Drilling template planning
- 3D respiratory passage analysis
- Measurement and processing tools
- Analysis and reporting function
- 3D volume rendering for patient discussions and presentations
- 3D analysis

Optional

OnDemand3D™ — more efficiency.

The X-ray software for professional 3D image evaluation with applications from sophisticated 3D image evaluation to implant planning to drilling template planning.

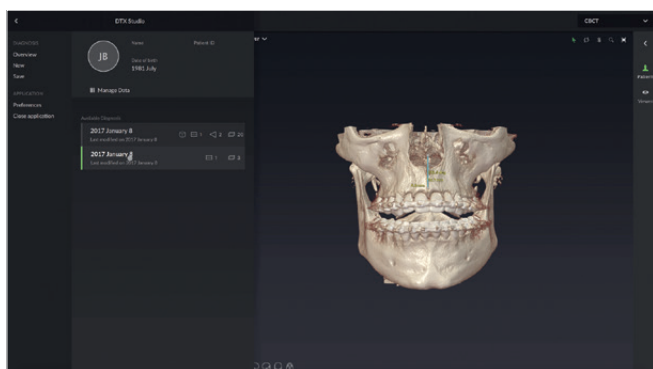
- Indication-based planning and processing display
- Large manufacturer-related implant library
- Efficient implant planning
- Precise surgical intervention preparation
- Impressive 3D volume rendering for patient discussions and presentations
- Comprehensive measurement and processing tools
- Efficient analysis and reporting function
- Optional add-on modules (e.g. Fusion, In2Guide™)
- DEXIS digital workflow components

The present: full diagnostics The future: integrated workflow

The SmartScan STUDIO™ acquisition workflow software will be installed with your OP 3D Vision. For 3D diagnostics you can choose between OnDemand3D™ or InVivo™. In addition you are already prepared to use the new DTX Studio™ unifying software platform for 2D and 3D diagnostics, opening up a whole new era of digital workflow integration.

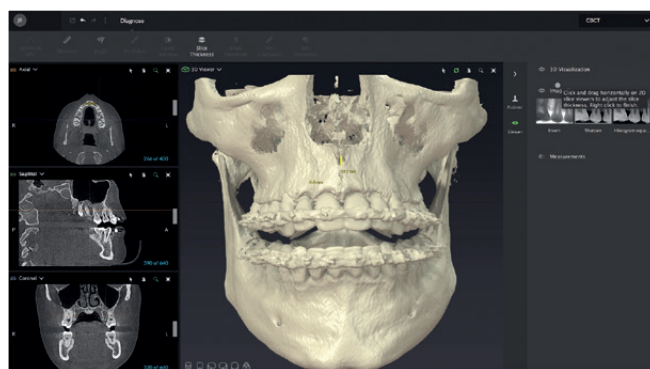
Your DEXIS OP 3D Vision is ready for the future: With DTX Studio™*, a new software platform is coming. Designed as an end-to-end workflow system with a constant stream of new enhancements, the DTX Studio™ platform will cover all fields of modern dentistry and dental technology in the future. The DTX Studio™ software is compatible with Mac and Windows operating systems. It will integrate both existing and future devices of multiple brands as well as current software provisions into one unified working process.

DTX Studio™ Single workflow



Screen with multiple diagnosis workspaces.

DTX Studio™ Flexible integration



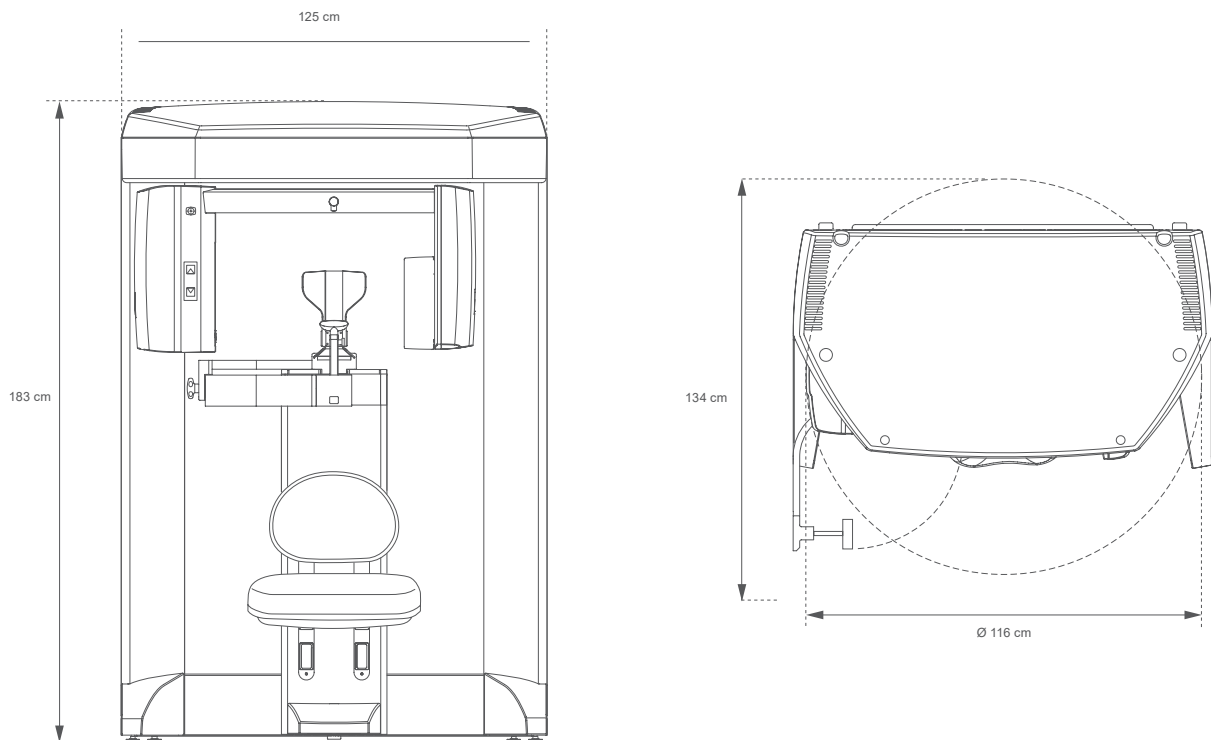
Screen in 3D diagnostic workspace.

Technical specifications

X-ray tube assembly	High-frequency, constant potential, 90–120 kVp, 3–8 mA (pulsed)
Beam profile	Cone beam
Tube focal point	0.5 mm
Image receiver	Amorphous silicon flat panel, 20 x 25 cm
Voxel size	125 µm–400 µm
Acquisition time	4.8 s–26.9 s
Volume size (H x Ø cm)	V8: 5 x and 8 x 8. V10 additionally: 4 x, 6 x, 8 x, and 10 x 16. V17 additionally: 11 x and 13 x 16 and 17 x 23.
DICOM* support	Yes
Grayscale	16 bit acquisition
Collimation	Automatic
Patient position	Sitting
Reconstruction time	Less than 30 seconds (QuickScan+)
Normal image file size	< 50 MB
IT infrastructure requirements	A network connection to a practice server is required for storing the volume data. OnDemand3D™ Dental or another piece of 3D software can be used for 3D diagnosis and treatment planning software. Please note the hardware requirements for the 3D software. The SmartScan STUDIO™ administration software requires a PC with Windows 7 or higher.

* DICOM is the registered trademark of the National Electrical Manufacturers Association for their standard publications on the digital exchange of medical data.

Dimensions



Transforming Practices and Patient Smiles

Designed with ease-of-use for all clinicians in mind, DEXIS now offers dependable and consistent imaging solutions that provide vital information to support accurate diagnosis and predictable treatment planning.



PaloDEX Group Oy Nahkelantie 160, FI-04300 Tuusula, Finland