

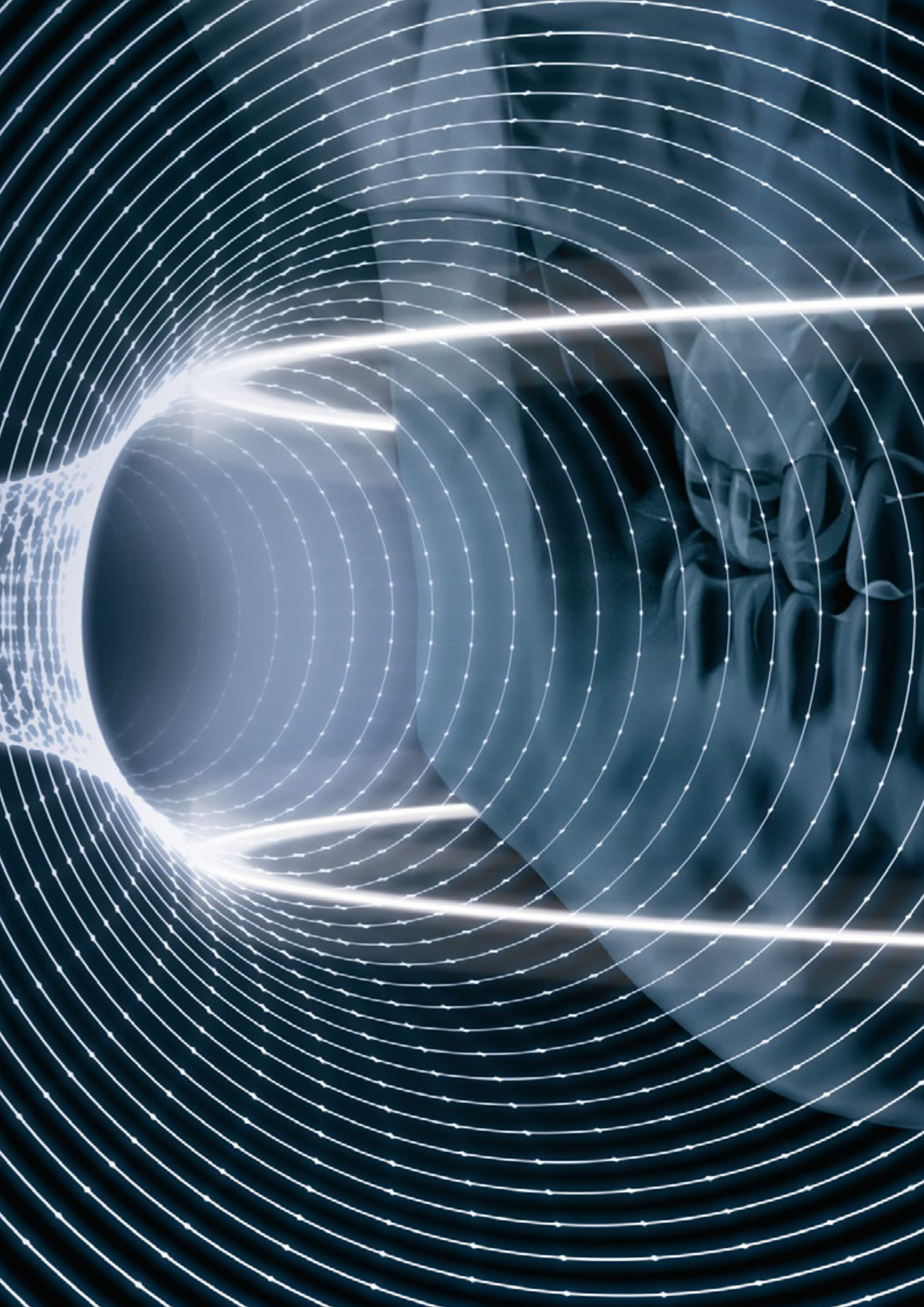
NewTom GO

COMPLETE.VISION

2D/3D CEPH INTEGRATED IMAGING



Cone Beam 3D Imaging
NewTom
what's next



GO 2D/3D CEPH COMPLETE.VISION

IMAGING EXCELLENCE
COMBINED WITH
THE VERSATILITY
OF A COMPLETE
AND SAFE,
TECHNOLOGICALLY
ADVANCED SYSTEM.

Technological research, reliability and innovation. The functional evolution of the most compact NewTom system, ensuring top performance and the outstanding quality of 2D/3D and CEPH imaging in a versatile and accessible device.

VERSATILE AND PRECISE.

High quality images that meet a wide range of clinical diagnostic needs, all in one compact device.

GO 2D/3D/CEPH is a flexible platform that comes ready for the optional integration of the teleradiographic arm in a 2D or 3D configuration. Able to provide high resolution images, the platform prioritises patient health thanks to low exposure protocols and exclusive SafeBeam™ technology, which lets users adapt the dose to their actual diagnostic needs and the size of the scanned anatomical area.

Excellent ergonomics and an adaptive alignment system ensure correct positioning of the patient and perfect focusing for clear, detailed images. A virtual control panel guides the operator through each stage of the examination. NNT is the technologically advanced software platform to manage, process, consult and share diagnostic images.



BROAD DIAGNOSTIC POTENTIAL

A combination of device versatility and NewTom solutions designed to meet every diagnostic need broaden the opportunities available to the surgery.



ACCESSIBLE TECHNOLOGY

Guided procedures and smart automatic features have made this sophisticated technology available to everyone.



MINIMUM X-RAY DOSE

ECO Dose functions and SafeBeam™ technology, which automatically adapts the X-ray dose to the patient, put patient safety above all else.



MAXIMUM CONNECTIVITY

Acquired X-ray images can easily be stored, exported and shared with specialist third party software.



OUTSTANDING TECHNOLOGY.

**Comprehensive
NewTom CBCT
technology combines
with excellent 2D
functions to provide
reliable diagnostics.**

Thanks to CBCT technology - first introduced to the dental industry by NewTom - GO provides extremely useful high definition (80 μm) diagnostics data, obtained with just one scan to minimise X-ray exposure. The field of view is defined according to diagnostic requirements and ranges from a minimum of 6 x 6 cm to a maximum of 10 x 10 cm.

2D images are available with multiple advanced-function protocols that allow dentists to obtain precise data; once again, every precaution is taken to safeguard patient health (e.g. adaptive FOV and quick scans).



HiRes 3D produces images with a voxel size of 80 μm , also available with maximum 10 x 10 cm FOV, critically important for in-depth studies of anatomical details. Other FOVs and other protocols (ECO SCAN and REGULAR QUALITY) allow lower doses to be used according to diagnostic objectives.



Without any increase in doses, the PAN adaptive mode can generate in a single scan a set of five images corresponding to 5 different focal planes. The most suitable one can be chosen for specific diagnostic needs. Moreover, the ORTHO panoramic function captures the dental arch image orthogonally to better highlight interproximal spaces and the entire root structure without any overlap.



Integration of the teleradiographic arm (which can be done at a later stage) extends the diagnostic capacity of GO 2D/3D to cephalometric examinations. The compact arm, complete with dedicated CEPH sensor, has long and short head support rods to make positioning of adults and children easier. Collimation systems and fast scans minimise X-ray doses.



AUTOMATIC AND ERGONOMIC.

Solutions developed to maximise examination quality, from positioning systems to automated collimation.

To ensure accurate diagnoses in every situation, it is vital to observe procedures that ensure always sharp and clear images. GO 2D/3D has a single native 16-bit sensor that produces 2D and 3D images with thousands of grey levels. Image quality is ensured by advanced algorithms and protocols and by high-tech image sequencing. The high frequency, pulsed-emission generator adjusts exposure to obtain the best scans with a minimum dose.

Moreover, the cephalometric exam collimation system is based on automatic movement of the turret, which rotates and lowers the sensor, creating an opening for the X-rays directed at the 2D sensor on the teleradiographic arm.



With its five contact points, the 3D scan head support helps staff position the patient correctly and comfortably. Frontal and lateral contact points can be adjusted to maximise both patient stability during the scan and, consequently, the quality of the obtained data.



A specific protocol allows for tomographic scans of radiological templates, prostheses, models or impressions after they have been positioned on a special support.



HIGH QUALITY AND PRACTICAL.

Top quality 2D imaging obtained through many advanced functions for more effective diagnostics.

NewTom's established expertise and care for the patient are shared by the NewTom GO system, which today integrates complete cephalometric features.

It supplies detailed images thanks to the sensitivity of the newly developed CMOS sensor. Thanks to its advanced functions, trajectories and collimation designed specifically for each examination, and to special ApT filters that automatically and selectively optimise the display of the different anatomical regions for increasingly sharp details, NewTom GO meets every 2D scanning requirement.

Through the exclusive SafeBeam™ technology, sharp and homogeneous images are automatically obtained, in every anatomical region, auto-adapting exposure parameters to each patient, and minimising X-rays doses.



ORTHOGONAL PANORAMIC FUNCTION

The **adaptive PAN** function provides, in a single scan, 5 optimised images from which users can choose the panoramic view that best suits their diagnostic needs. Captured orthogonally, the dental arch image clearly highlights interproximal spaces and the entire root structure without any overlap.



NEW CEPH HR FUNCTION

The highly compact teleradiographic arm completes the available 2D functions with a wide range of CEPH tests carried out with dedicated protocols for high-resolution imaging. With collimation designed to reduce X-ray doses and quick scan times the focus is on the patient's health.



INTEGRATION OF CEPH ARM.

A complete, all-inclusive system for 2D and CEPH examinations, relocatable sensor, secondary collimator and smart head support unit.

To complete the range of available 2D examination options, the teleradiographic arm allows a full range of cephalometric examinations.

Compact and available with relocatable PAN-CEPH sensor, the CEPH extension is equipped with a dedicated head support unit with two available side rod lengths.

The CEPH application can be integrated at the time of purchase, but also retrofitted on equipment supplied in CEPH Ready version.



HEAD SUPPORT UNIT

The head support unit, which includes four partly adjustable contact points, guides the patient into the correct position for every kind of examination, including TMJ and maxillary sinus scanning.



CARPAL

The teleradiographic module includes a convenient support for carpal scanning.



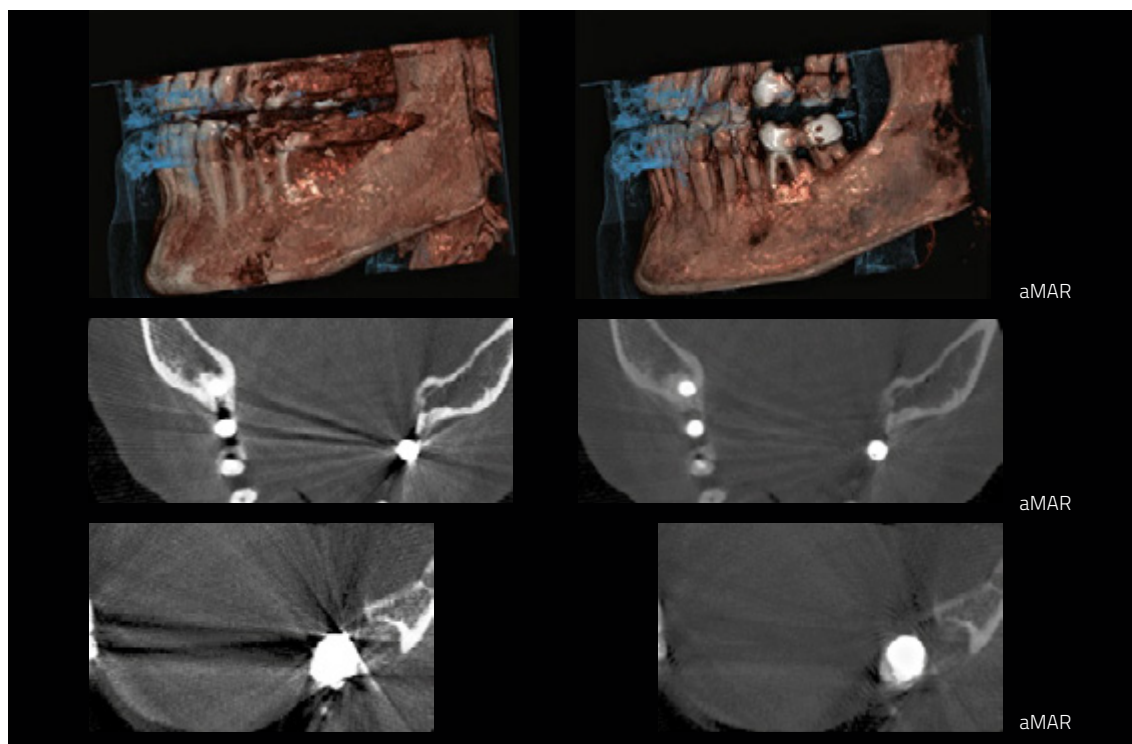
CLINICAL EXCELLENCE IN 3D.

Detail-rich volumes
for every clinical need
while safeguarding
patient health.

NewTom GO generates outstanding volumetric images and for each FOV, ranging from 6 x 6 to 10 x 10 cm, 3 protocols are available to better adjust the X-ray dose to diagnostic needs. User-friendly procedures help the dentist select the most appropriate examination and protocol, depending on the anatomical region of interest and according to clinical specialties - ranging from implantology to the measurement of maxillary sinus volumes, from endodontics to oral surgery.

aMAR

The aMAR (autoadaptive Metal Artifact Reduction) algorithm clearly shows the anatomical structures even when there are metal objects, such as amalgam or implants, that would impair image quality. This software function recognises the metal elements present and automatically generates an additional set of better quality images for a clearer view with artifacts reduced to a minimum.



IMAGING 3D

OPTIMISED DOSE

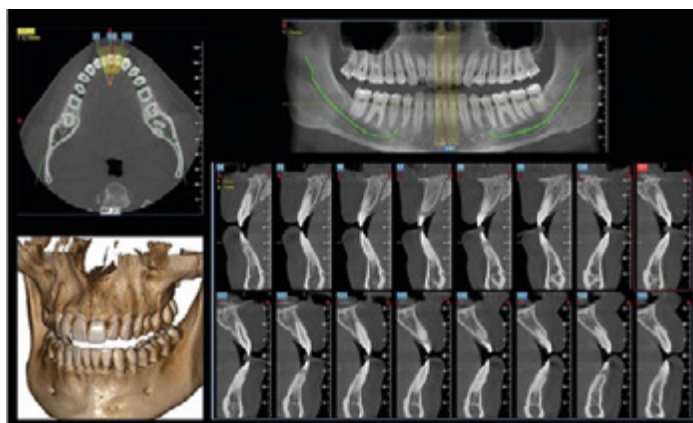
A choice of 3 protocols allows the required X-ray dose to be adapted to specific needs: from very low for quick scans required by surgical follow-up checks, through regular for treatment planning, to a very high level of detail for the analysis of micro-structures.



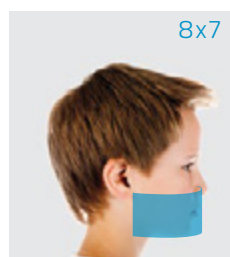
COMPLETE ADULT DENTITION



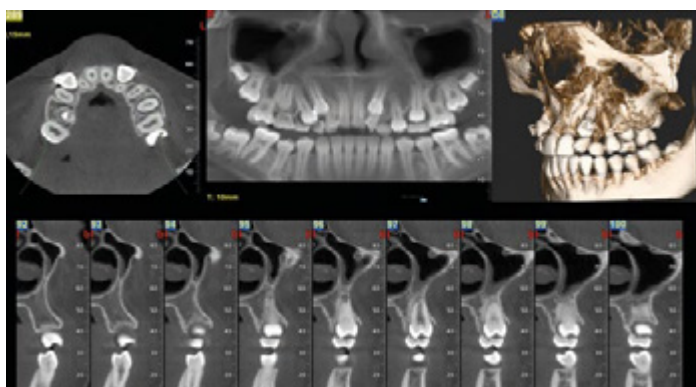
The complete 10 x 10 cm FOV is ideal to view inferior and superior third molar ratios with the complete dentition, including the maxillary sinus floor. Clear images even when there is metal or amalgam.



COMPLETE CHILD DENTITION



Small FOVs that are specific for paediatric applications can be chosen. The 8 x 7 cm volume offers high quality images of a child's complete dentition. It is especially useful for orthodontic applications and to diagnose more severe diseases, with always clear and detailed images as a result of filters to reduce artifacts.



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