



BU Medical Equipment

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newtom.it

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NewTom 5G XL VET.VISION



CUTTING EDGE PERFORMANCE FOR ADVANCED DIAGNOSTICS.

Outstanding quality and innovation, exceptional features.

5G XL VET.VISION

> NewTom 5G XL, a CBCT device incorporating unique technology, guarantees advanced top-level diagnostics by maximising patient stability and providing a broad selection of FOVs, resulting in 3D and 2D images of the very highest quality.

CBCT technology combines low X-ray doses with high spatial resolution: the outstanding quality of 5G XL images allows veterinary specialists to identify pathologies and fractures that would otherwise be unidentifiable. Patient health - enhanced by the ECO Dose mode and exclusive SafeBeam[™] technology - is a key design priority.

The native 21 x 19 cm FOV and numerous smaller high resolution FOVs constitute a 'toolbox' that is perfect for veterinary diagnostics, which demand sharp and extremely detailed images.



SUPERIOR DIAGNOSTIC QUALITY

Very high resolution 3D and 2D images and a broad range of FOVs make the device suitable for a vast selection of clinical applications.



MOTOR-DRIVEN MINIMUM TIMES, PATIENT TABLE MAXIMUM A CBCT system with an

open gantry and

examinations.

USER-FRIENDLINESS Minimum scan times and automatic calculation of motor-driven patient table allows remote-controlled X-ray doses ensure fast patient positioning, acquisition of detailed ensuring stability and images and maximum fast completion of diagnostic capacity.

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VETERINARY SOFTWARE

The dedicated interface allows users to display images and access innovative 3D and 2D analysis functions for fast, accurate diagnoses and optimal workflow.



SUPERIOR DIAGNOSTIC QUALITY.

5G XL

VET.VISION

Superior standard **3D** examinations with a device designed for excellent performance.

COMBINING TECHNOLOGY, PERFORMANCE AND SAFETY

investigation of dental and maxillofacial pathologies.

efficient workflow.

5G XL offers outstanding results with low radiation doses for the patient, all thanks to undeniable constructive excellence:

Ultra-high definition volumetric images with native isotropic voxel resolution and minimal artifact presence. Thanks to CBCT technology,

5G XL offers fast scanning and extremely contained X-ray doses, increasing safety for both operator and patient and ensuring a more

The outstanding versatility of 5G XL makes it the perfect device for otorhinolaryngological and muscular-skeletal diagnoses, with or without

radiocontrast agents, for complete upper airway analysis and for the

- The X-ray generator, the only one of its kind in the world, with rotating anode and a 0.3 mm focal spot, optimises performance by adapting emissions to the specific needs of the examination. It also provides high filtration levels to protect the animal from more harmful radiation types.
- The large Flat Panel sensor with high signal-noise ratio improves final image quality, while collimation limits exposure to the specific regions of interest.
- Innovative volumetric reconstruction algorithms allow the user to control

the 'image chain' and maximise diagnostic potential while minimising the presence of artifacts.



360° reconstruction

The 360° scan acquires the entire volume with a single rotation. 5G XL rapidly generates a complete dataset of axial, coronal and sagittal images as well as 3D renderings.



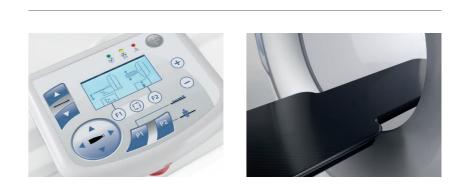
eXtra FOV vision The eXtra FOV function allows the user to examine large anatomical districts longitudinally (Ø15 x 22 cm). The availability of multiple 3D FOVs, from a minimum of Ø6 x 6 cm to a maximum native FOV of Ø21 x 19 cm,

optimises image acquisition.

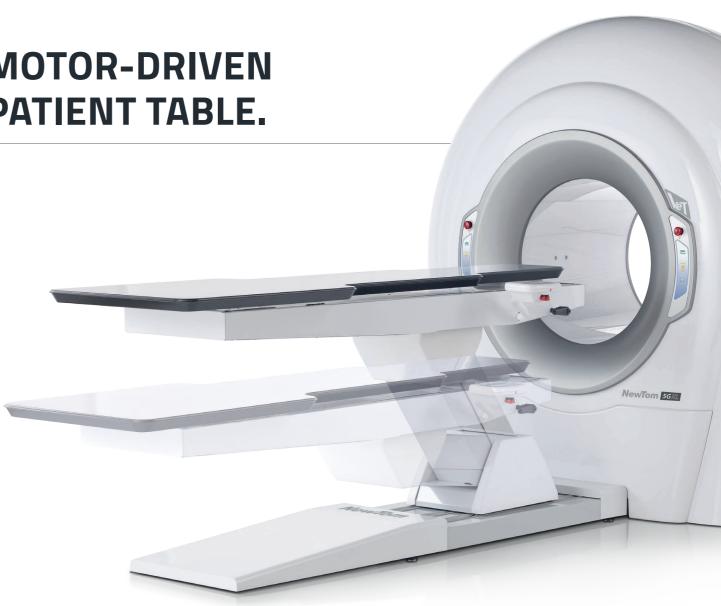


The ultra-high spatial resolution of 5G XL returns extremely clear, detailed images, allowing for the clear display of micro-fractures and micrometric anatomical details.

The NewTom 5G XL is characterised by a motor-driven, carbon fibre patient table. Controlled via a panel on the machine, it ensures comfortable, easy access to the gantry for operator and patient alike.



MOTOR-DRIVEN PATIENT TABLE.





Motor-driven table control is even easier when performed via the PC as it allows the user to adjust patient positioning directly from the workstation. The open gantry makes access to the scan area easy and simplifies, along with the three reference lasers, the management of initial patient positioning (dorsal, ventral, rostral, cranio-caudal or caudo-cranial)

MINIMUM TIMES, **MAXIMUM USER-FRIENDLINESS.**

Simplicity and speed of use for outstanding quality in the veterinary field.

SafeBeam[™] is an exclusive function that uses the patient's anatomy as a starting point for automatic calculation of the dose needed to obtain optimal image quality. Thanks to SafeBeam[™], obtaining ultra-high quality diagnostic images has never been easier and faster.

Moreover, dedicated protocols such as ECO Scan and Ray2D allow for fast performance of examinations in specific modes, thus preventing any loss of time or energy.

Minimum scan times and automatic calculation of X-ray doses thus ensure veterinary specialists can acquire detailed images quickly to maximise diagnostic results.

VETERINARY SOFTWARE.

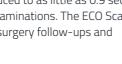
Versatile, powerful imaging software to perform the examination, process the data and share the diagnosis.

NNT is an indispensable tool for processing and managing 2D and 3D images and X-ray videos created using the CineX function.

With its dedicated veterinary application interface, NNT software has been designed to meet the specific needs of veterinary radiologists and specialists, ensuring they have the flexibility needed for a full range of diagnostic requirements. Volume reconstruction algorithms and advanced filters - the result of NewTom's extensive experience and ceaseless work with the industry's key experts - optimise final image quality and reduce the presence of artifacts and the time needed for image reconstruction.

and tools).





Exclusive SafeBeam[™] technology eliminates the risk of exposing the patient to an unnecessarily high dose by automatically adapting radiation levels to the patient's









in according to FN ISO/IEC 17065:2012

NNT: CERTIFIED SOFTWARE

NNT has been awarded ISDP©10003 certification, an international standard for assessing compliance with EU Regulation 2016/679 concerning the protection of individuals' personal data processing rights.

3D volumes, 2D images and videos processed with the CineX function, which are compatible with the DICOM 3.0 (IHE) standard, can be printed in 1:1 scale via fast, personalised reports or easily shared via the NNT Viewer (allowing those who receive them to use NNT software functions

Di.V.A. AND EASY CHECK

NewTom

To ensure maximised workflow smoothness, the Di.V.A. digital virtual assistant provides data and usage statistics to plan workloads and maintenance. The Easy Check tool also ensures continuous remote technical monitoring, to facilitate maintenance scheduling and anticipate the resolution of any critical issues.

SPECIALIST TOOLS.

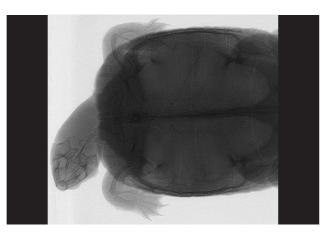
5G XL

VET.VISION

Ray2D

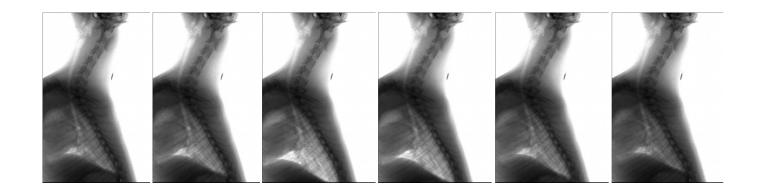
With the innovative Ray2D function, it's possible to generate 2D X-ray images (FOV 18 x 19 cm) that are suitable for both preliminary and post-surgery follow up examinations. Being able to select the image acquisition angle adds a further layer of simple-to-use diagnostic utility to this function.



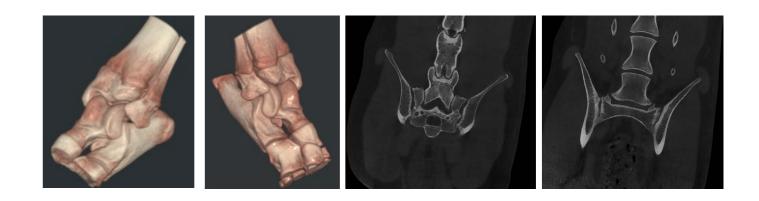


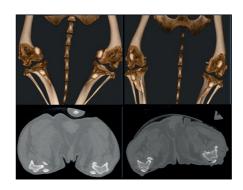
CineX

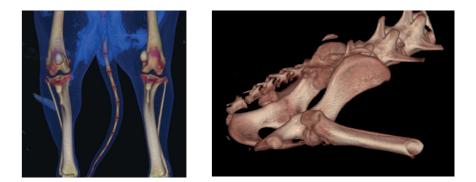
Right on the cutting edge of X-ray imaging, NewTom 5G XL includes the exclusive CineX function for the analysis of moving anatomical structures. A sequence of X-ray images, with FOV 18 x 19 cm, is used to produce a video of the patient that can be exported in proprietary, .avi or DICOM 3.0 format.



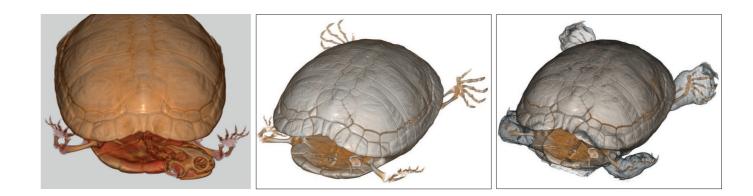
ORTHOPAEDIC APPLICATIONS.







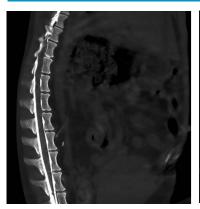


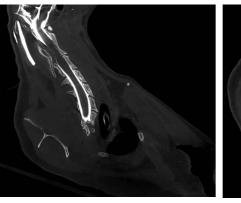


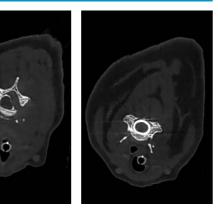
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APPLICATIONS WITH RADIO-CONTRAST AGENTS.

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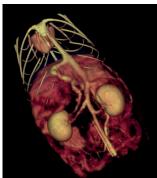




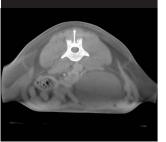


EXAMINATION OF SOFT TISSUES

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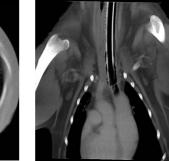




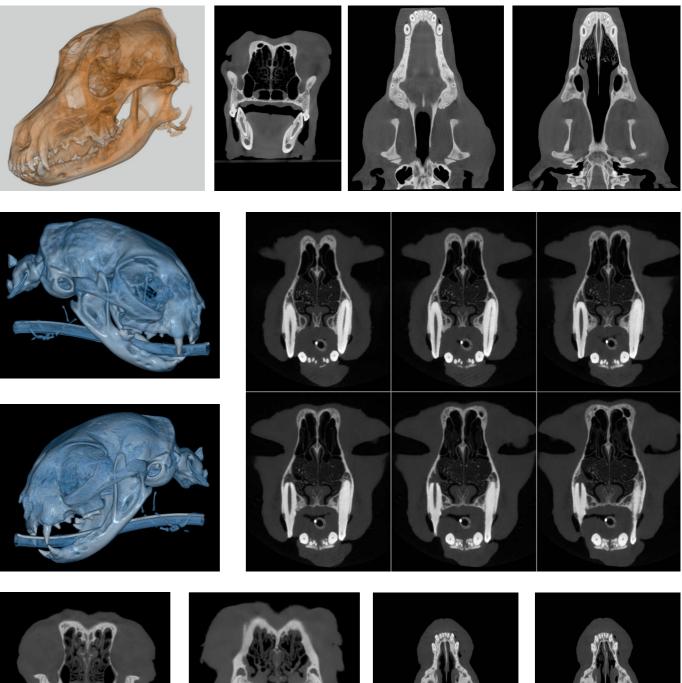




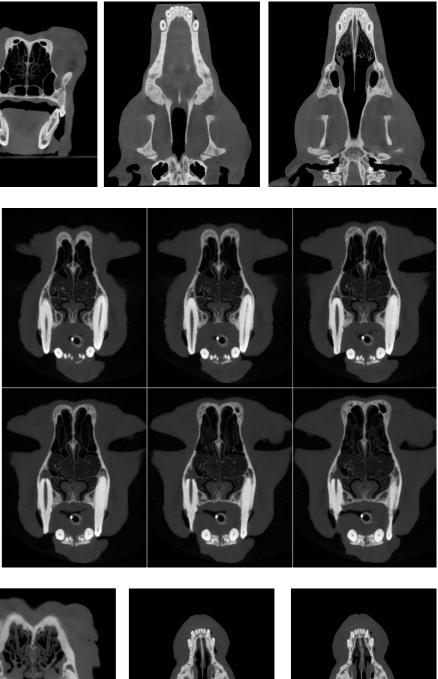




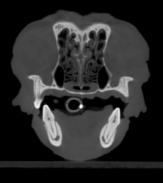
DENTAL **APPLICATIONS.**

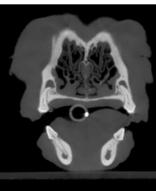




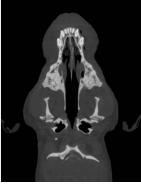






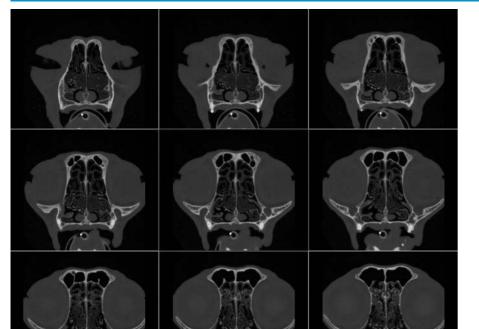


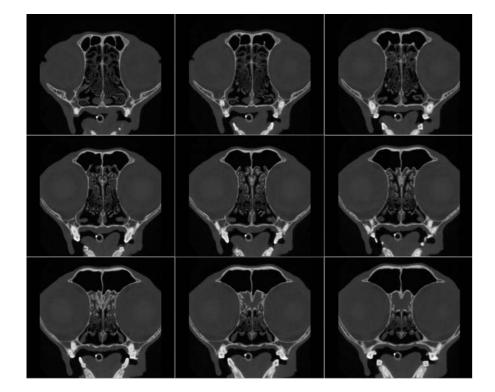




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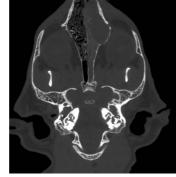
EXAMINATION OF AIRWAYS



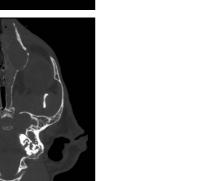


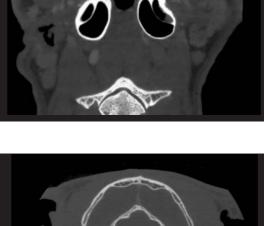


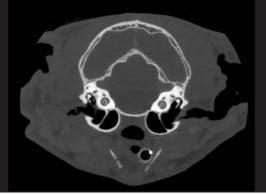
















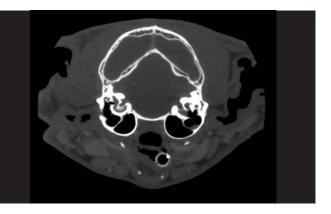
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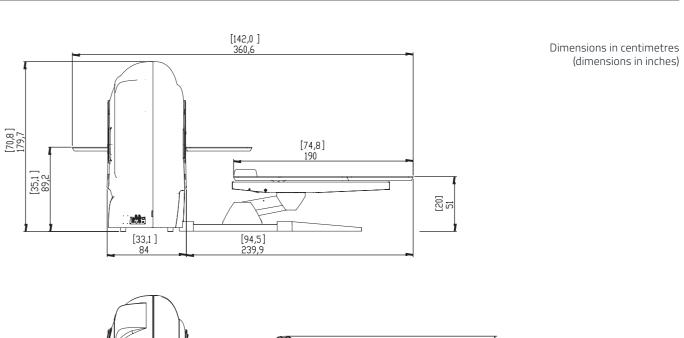


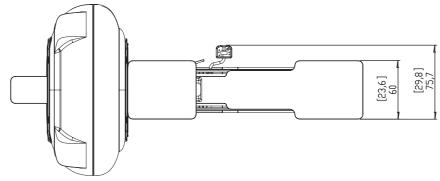


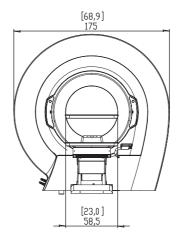


TECHNICAL SPECIFICATIONS.

X-ray source	High frequency generator, rotating-anode X-ray tube							
Focal spot	0.3 mm							
Exposure control	SafeBeam™ to reduce exposure according to patient size							
Sensor	Amorphous silicon flat panel							
Grey scale	16-bit							
3D scan time	18 - 36s							
3D emission time	0.9s - 9.0s (single scan)							
3D image acquisition	Single scan with Cone Beam technology. Complete rotation (360°)							
Available FOV Diameter x Height	Resolution		Selectable 3D scan modes					
	Standard	HiRes	Eco	Regular	Boosted	Enhanced		
21 x 19 cm								
18 x 16 cm								
15 x 22 cm eFOV			•					
15 x 12 cm					•			
15 x 5 cm								
12 x 8 cm								
10 x 10 cm								
10 x 5 cm								
8 x 8 cm								
8 x 5 cm								
6 x 6 cm								
Selectable voxel size Standard	200 - 300 µm							
Selectable voxel size HiRes	100 - 150 μm							
Reconstruction time	Less than 1 minute							
Ray2D image acquisition	Digital Radiography (single shot, position selectable by user)							
CineX image acquisition	1-36s serial radiography, FOV 18 x 19 cm (W x H)							
Patient positioning	Lying down, prone or supine, in cranial-caudal or caudal-cranial position							
Weight	660 Kg							
Software	NewTom NNT (ISDP©10003:2020 compliant in accordance with EN ISO/IEC 17065:2012 certificate number 2019003109-1) - free NNT viewer							
DICOM nodes	IHE compliant (Print; Storage-Commitment; WorkList-MPPS; Query/Retrieve)							
Power supply	15A @100/115 V~, 12A @200 V~, 10 A @220/230 V~, 8A @240 V~, 50/60 Hz							









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