



China care medical equipment Co., Ltd was founded in 2011 and committed to the development and industrialization of high-end medical devices. The core team was graduated from Tsinghua University and has a solid foundation in the technical fields of computed tomography, radiation protection, and image processing. We insist on a customer-centric business philosophy and focus on innovation and excellence.

Our mission: Provide doctors and patients with superior products and services.

Our vision: Be the world's leading manufacturer of medical equipment.

Email: info@chinacaremedical.com

Website: www.chinacaremedical.com

Room C208, Changsheng Business Building, Dagan South Road No 26, Tianhe, Guangzhou, China.

3-in-1 Intelligent CBCT

CT • PAN • CEPH



CT·PAN·CEPH

01 Extraordinary Image



Quartz 4 scan platform, supporting flexible scan mode



Multiple focus layers in panoramic imaging, fitting the patients' dental arch



360° scan and 800 frame images with unique CT algorithms



Cephalometric PA/ LAT and carpus shot for orthodontic treatment

02 User-friendly



Easy-to-target scan area



Seven positioning lasers with face-to-face communication to posit precisely



X-type base is convenient for wheelchair-bound patients



10" LED touch screen



Storage box design

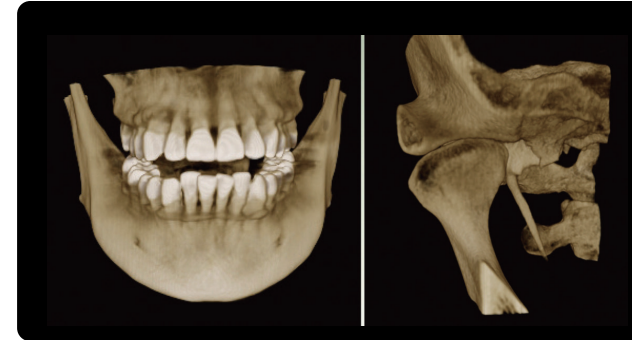


Voice reminder

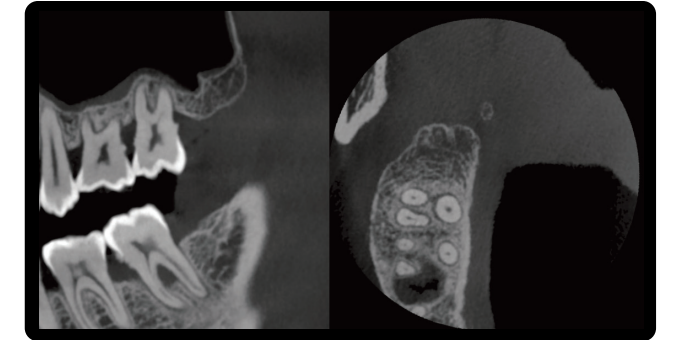




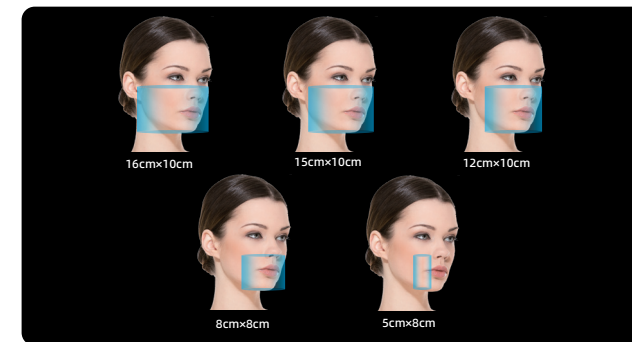
► High resolution up to 2.0 lp/mm
Voxel size 0.05–0.25 mm



► Enhanced image by Small Focal Spot
X-ray Tube



► Multiple FOVs



► Three scan modes



► Panoramic image reconstructed from 3D image data





► Panoramic and TMJ images



PAN



TMJ

► Cephalometric PA/LAT and carpus images



CEPH LAT(full)



CEPH LAT(half)



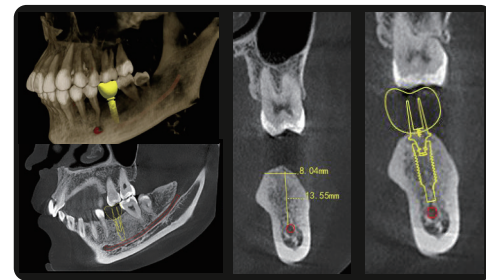
CEPH PA



Carpus image

► **Implant Simulation**

It can evaluate the bone quality and bone quantity of the implant area, automatically outline the neural tube. Clarifying the relationship between the implant position and the adjacent anatomical structure to accurately select the implant position, the optimal length and diameter of the implant. It can improve the success rate, and avoid possible nerve or blood vessel damage.



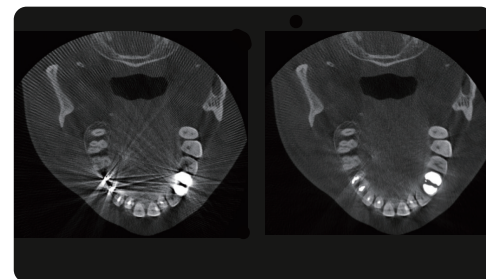
► **Lateral Cephalometric Measurements**

In comparison to traditional two-dimensional cephalometric radiographs, lateral cephalograms on CBCT can better reflect the true craniofacial morphology. With higher accuracy in landmark point identification and line distance measurement, it can avoid the distortion of patient measurement data caused by superimposition, image blurring and facial asymmetry of two-dimensional anatomical structures.



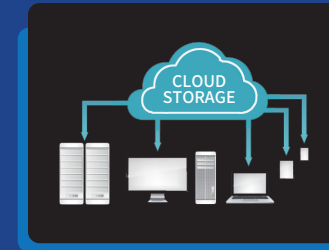
► **Metal Artifact Correction**

With the new T-MAR correction module for metal artifact removal, the system corrects metal artifacts intelligently. It avoids overmodification and saves the original clinical data.



► **TMJ Measurements(Optional)**

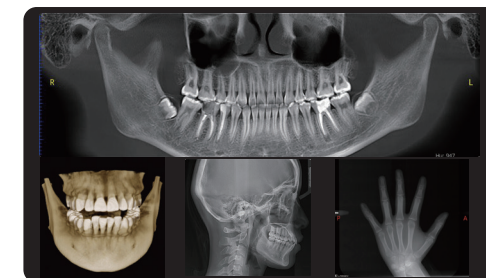
Doctors can use the professional TMJ measurement function to analyse temporomandibular joint diseases intuitively and efficiently with accurate measurement data for the diagnosis of diseases in the fields of orthodontics, arthropathy and maxillofacial surgery.



► **Cloud Storage Solution (Optional)**

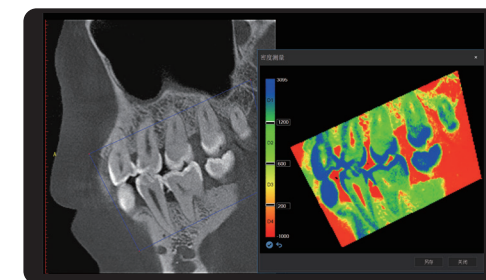
It supports cloud case storage, multiterminal data sharing, and synchronization.

► **Multiple Images**



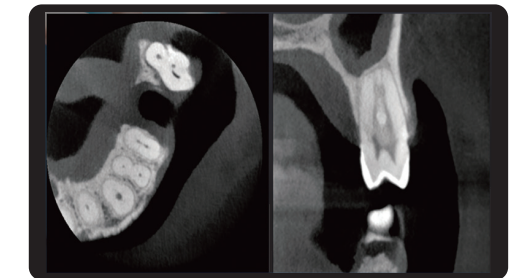
Support CT / PAN / CEPH.

► **Density Measurement**



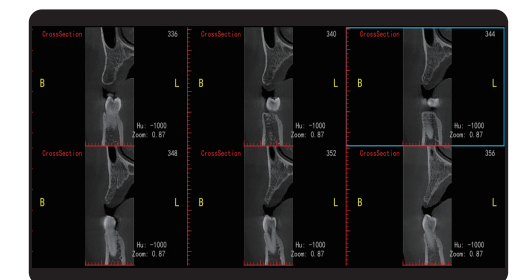
Visual assessment of bone quality, bringing greater convenience to dentists.

► **3D Fine Reconstruction**



The smallest voxel size reaches 0.05 mm, which is more suitable for the diagnosis of dental pulp disease.

► **Image Slice for Implanting**



It permits the evaluation of the overall osteogenesis and facilitates the macroscopic observation of the bone condition around implants



►Orthodontic Case Report

Covered automatically, which protects their privacy. Case reports can be generated with one-click, which is convenient for doctors to manage orthodontic cases.

►Visual Presentation of Report with the Clear Measurement Effect

The report is generated with just one-click. It promotes communication between doctors and patients.

►VTO

CephPro3D superimposes patient's cephalic images with side photos. It can be fine-tuned through the anchor point to ensure that the image and photos are superimposed completely. Intuitive simulation of the orthodontic effect is generated by one-click.



►Customizing Measurement Analysis Methods

There are 19 built-in cephalometric measurement methods, 135 measurement items, and 73 measurement points in the software. Dentists can choose the corresponding measurement method according to the diagnostic demands, and provide patients with professional cephalometric measurement reference.

►Convenient Comparison

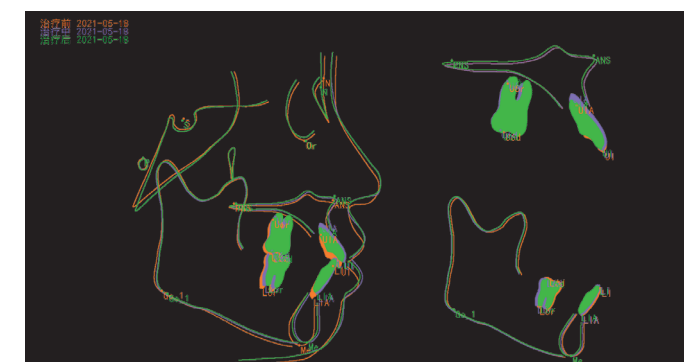
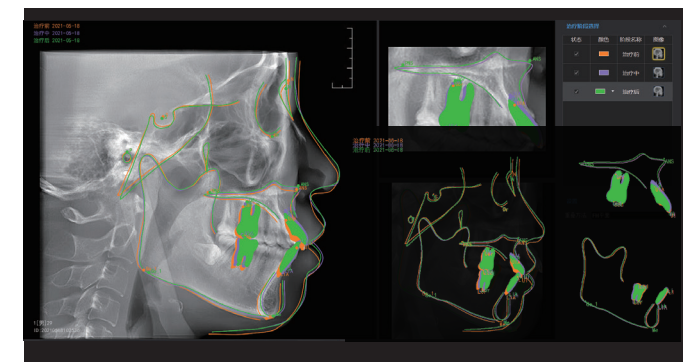
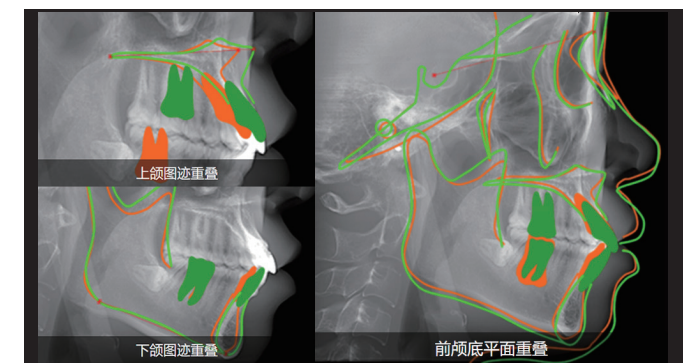
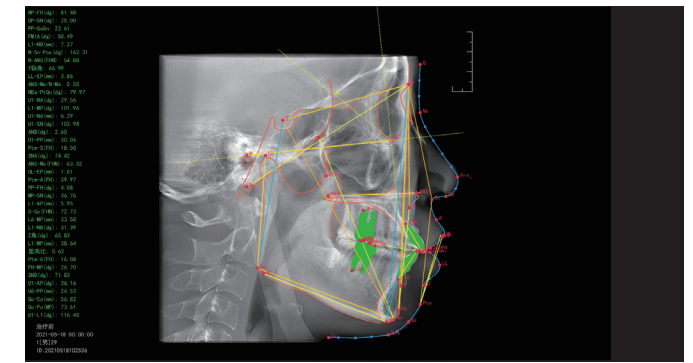
The software is equipped with an overlay interface, allowing simultaneous review of cephalometric and panoramic images, and treatment comparisons before and after orthodontic treatment for the same patient. The overlay process enables a review of the alignment with American Board of Orthodontic (ABO) standard.

►Intelligent Tracking of Treatment Stage

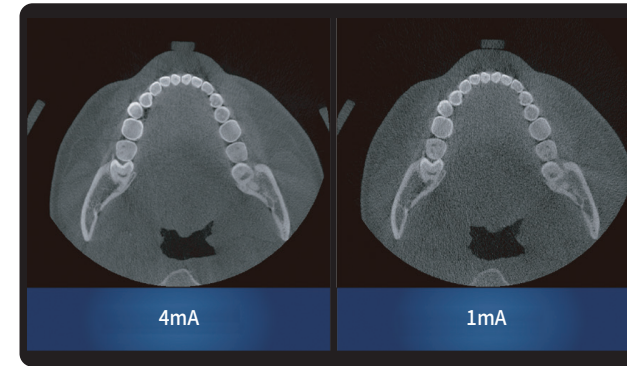
The AI cephalometric measurement and manual drawing function can be combined with the patient's historical records to fine-tune the pre-treatment region curves. During and after treatment, the pre-treatment curves can be directly imported, and the tracing images can be easily adjusted, facilitating efficient and swift diagnosis for doctors.

►Intelligent Export

The system allows for direct export of cephalometric tracing images and overlay diagrams without background images, which can be easily shared by dentists in reports.



Artificial Intelligence
The future is coming



► **AI+Low Dose**

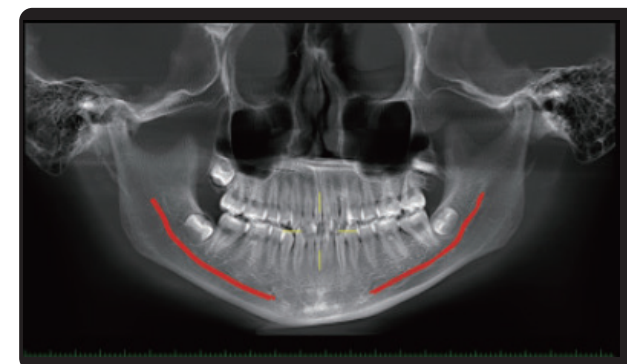
Boosted by the deep learning-based CT reconstruction algorithm, the Smart3D-X can now obtain more defined tomography while further reducing the radiation dose, continuing to raise the industry standard for low-dose control.



► **AI + PAN**

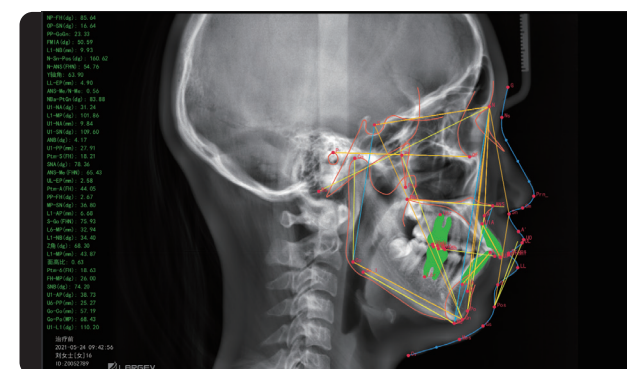
CT reconstruct panoramically : With the new deep learning-based CT reconstruction algorithm, the system can obtain a precise CBCT image.

Panoramic images: Together with the new intelligent auto-focus and multilayer panoramic technology, the system automatically fits the best panoramic curves and reconstructs a better image.



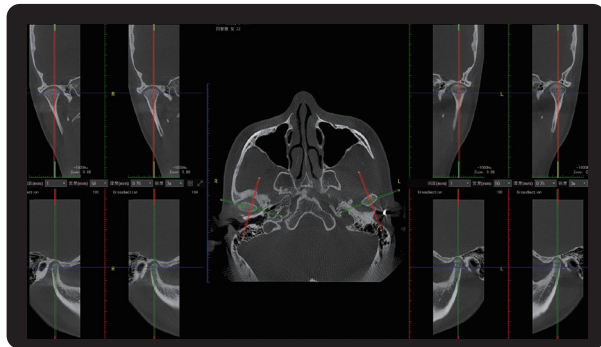
► **AI+Nerve**

This function can locate the shape of the inferior alveolar nerve in 3D space, as well as the positional relationship between the relative alveolar bone wall, adjacent teeth, and implants, providing a reference for doctors, greatly improving work efficiency and reducing surgical risks.



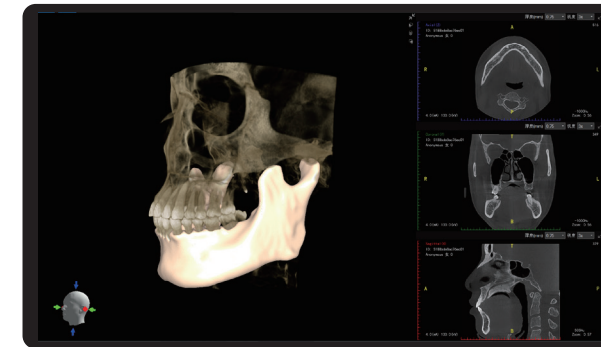
► **AI+CEPH Measurement(Optional)**

The neural network is trained by mega data, which automatically identifies orthodontic anatomical landmark points, draws anatomical structures and outputs measurement reports according to the selected measurement methods.



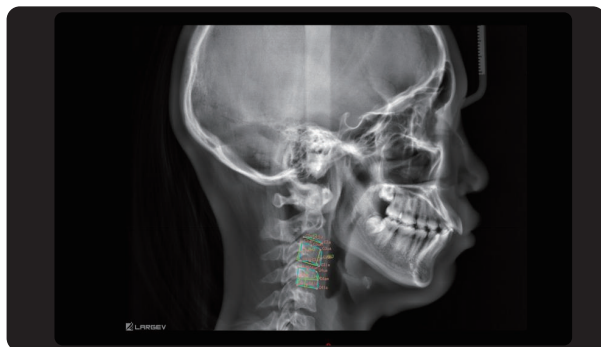
► **AI+TMJ Automatic Positioning Diagnosis**

The display mode of comparing the left and right temporomandibular joints, with the cross positioning line automatically located at the temporomandibular joint, facilitates the diagnosis and treatment of temporomandibular joint diseases by doctors.



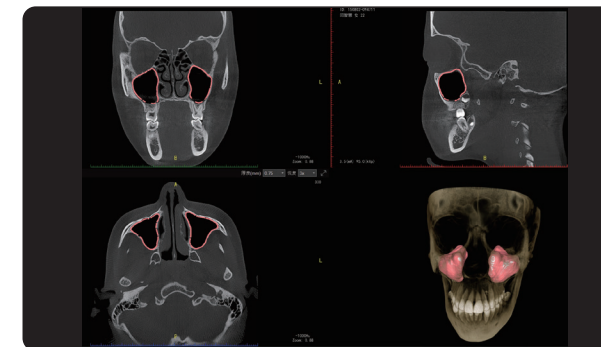
► **AI+Mandible Segmentation**

It's accurately evaluate the morphology and position of jaw, as well as provide doctors with reliable anatomical and structure.



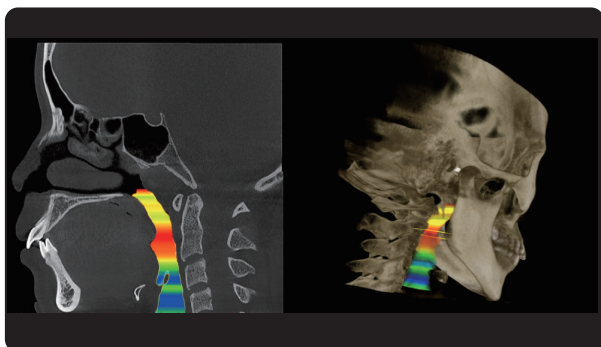
► **AI+Predict Bone Age by Observing the Cervical Spine**

With bone age analysis, the patient's growth and development level and maturity can be accurately evaluated. It can provide reference for the diagnosis of oral diseases and the selection of orthodontic treatment solution.



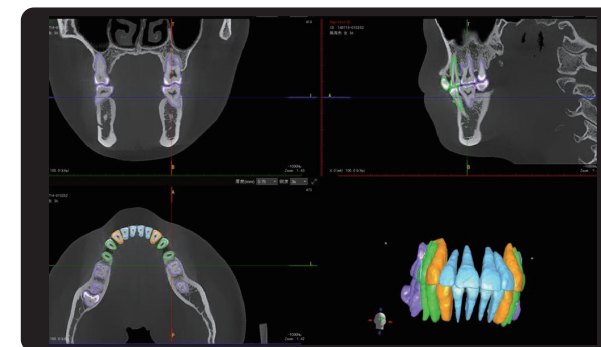
► **AI+Maxillary Sinus Segmentation**

This leading technology not only provides a high-precision 3D model of the superior maxillary sinus, but also helps doctors to distinguish the position and size, which contributes to customized surgical plans.



► **AI+Airway Measurement**

Quick segmentation of airways, with two modes: automatic and manual, providing accurate imaging information for the discovery and diagnosis of airway diseases.



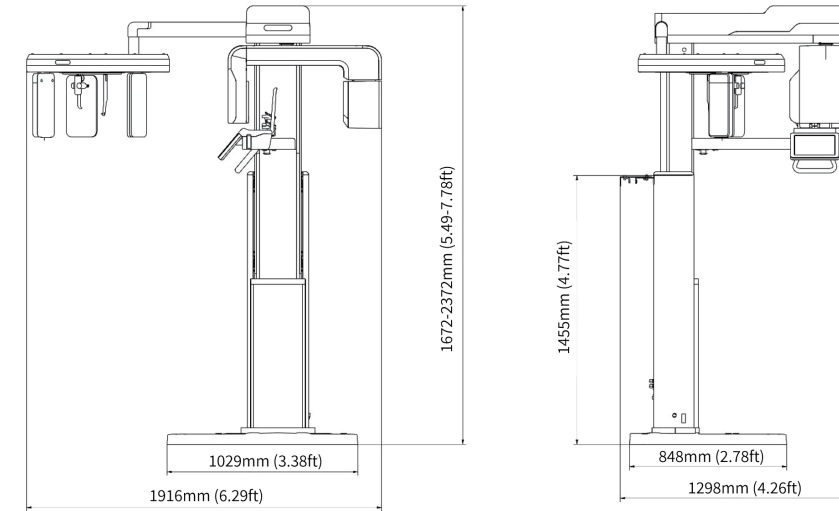
► **AI+Teeth Segmentation**

We precisely show the form and position of teeth, diagnose dental problems such as caries, tooth deformities and missing teeth etc. Better to provide patients with an accurate treatment solution.

► Specifications

Technical Specifications	Field of View	16 cm×10 cm 8 cm×8 cm 5 cm×8 cm	15 cm×10 cm 8 cm×8 cm 5 cm×8 cm	12 cm×10 cm 8 cm×8 cm 5 cm×8 cm
	Detector Type	Csl+TFT		
	Tube Voltage	CT/PAN/CEPH:	60-100 kV	
	Tube Current	CT/PAN/CEPH:	2-10 mA	
	Exposure Time	CT:	9.5 s / 12.5 s / 18.5 s	
		PAN:	8.1 s / 18 s	
		CEPH:	7.5 s / 10.1 s / 11.8 s	
	Focal Spot Size	CT/PAN/CEPH:	0.5 (IEC60336)	
	Spatial Resolution		2.0 lp/mm	
	Reconstruction Time		<60 s	
	Voxel Size		0.05-0.25 mm	
	Weight		220 kg (485.02 lb)	

► Product Size Display



► Shielding Room Diagram

