Smart 3D

Multifunctional Dental CBCT

Smart Your Choice

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LARGEV

LargeV Instrument Corp.Ltd.

LargeV Instrument Corp. Ltd. (LargeV for short) is a provider of medical imaging equipment and the related services. As China's pioneer in Dental Cone Beam CT, LargeV have developed and manufactured equipment and bundled software with high quality, low dose radiation, high-reliability, easy-maintenance and excellent end-user experience. The core team of LargeV comes from Tsinghua University, they have rich experiences in CT imaging, dose control and radiation protection. Combined with laws, regulations as well as requirements on medical equipment, clinical feedback and professional knowledge, LargeV self-owned intellectual properties equipment have earned high recognition from customers.

Product introduction

Smart3D

CBCT **PAN** **CEPH**

1 Clarity

- CT 360° full angle accurate scanning
- Advanced 0.5 minifocus X-ray tube
- World-leading 27μm CCD Ceph Sensor

2 Safety

- Patent anti-collision indicating device
- Six laser beams for easy positioning
- Embedded Panoramic module, no requirement to dismantle

3 Flexibility

- Integrated sensor for both panoramic and 3D images
- Friendly touch screen
- Pre-programmed scan mode for different clinical needs
- Three fields of view with a variety of scan mode cater to all clinical applications.

Profession CBCT system

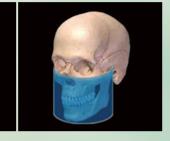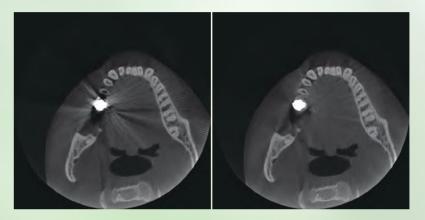**01** **Flexible 5cm x 5cm -15cm x9cm FOV**

5cm×5cm   8cm×8cm   12cm×8cm   15cm×9cm
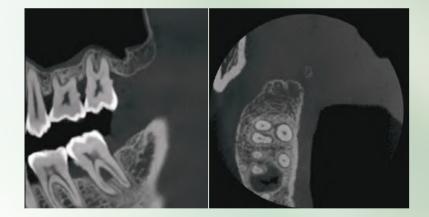
02 **0.5 minifocus X-ray tube ensures superior image quality**

03 **Resolutions 2.0lp/mm and voxel size from 0.1- 0.25mm**

360°
scan

04 **TrueMAR correction module for metal artifact removal**

05 **The Teeth Model Scan**

The Teeth model scan supports the Impression Scan mode and the Plaster Casting Scan mode. the STL three-dimensional digital model is generated by CBCT scanning, and is stored in the SmartV database, and reduce the production cost of the model.

The digital model data can be configured directly with the patient's CBCT data for oral implant planning, surgical guides, orthodontic treatment plans.

Solid Teeth Cast   Scanning Cast   STL Image Data Export   Teeth Braces
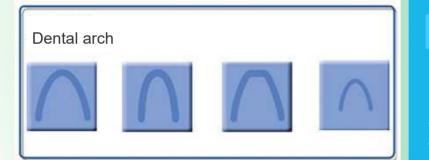
Pan and Ceph functions

01

Dentition Mode

02

Shape of dental arch

Pre-programmed shape (wider arch, standard arch, taper arch and children arch)

Dental arch

03

Joint Mode

04

World-leading 27μm CCD Ceph Sensor

05
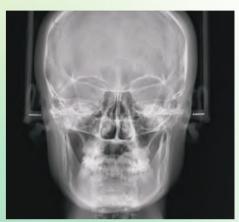
Full/Half width images optimize dose

06

Carpus image for bone age estimation
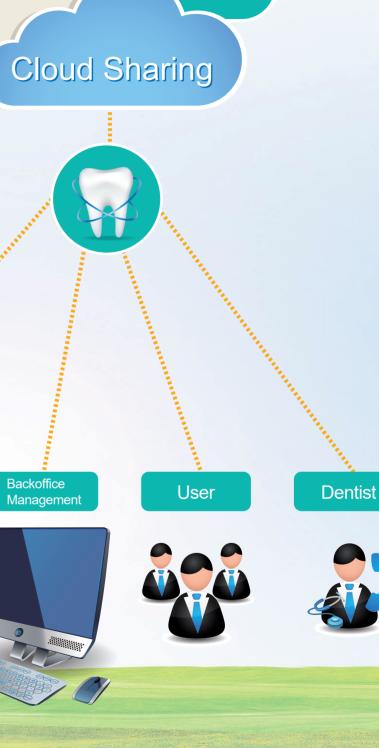
Convenient diagnostic software

SmartV

01 Implant simulation

With the assistance by the 3D image of maxillofacial region generated by Smart3D, the implants' position, length and diameter can be determined.

9.58mm

10.61mm

02 Bone density indications

Area coloring

Cloud Sharing

Dental clinic
Dental clinic
Dental clinic

Backoffice Management

User

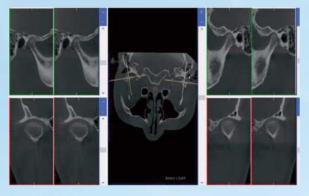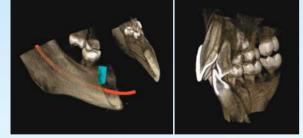Dentist

SmartV

Smart3D

03 TMJ Joint diagnosis

SmartV can display the left and right TMJ on screen, providing more information for the diagnosis and treatment of TMJ disorders

04 Straightforward 3D display make users' communication easy

Implant simulation   Supernumerary tooth

05 Precise reconstruction

The minimum voxel size up to 0.1mm, more suitable for the diagnosis of Endodontics disease

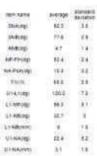Examination of root canal   Root furcation and inflammation
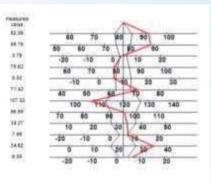
CephPro™

Cephalometric Measurement software

CephPro is the China's very first 2D/3D professional cephalometric software that enables five functional modules which collectively provide a reliable basis for orthodontic diagnosis. (Patient Information Managements/Adjustment/Diagnosis/Cephalometric/Report etc.)

Key features:
- User-friendly Interface
- Self-difined Cephalometric
- Rich functions with Case managements and Report

Smart3D

Tube Current(mA)	min: 2 max: 10 (60kV)
Tube Voltage(kV)	min: 60 max: 100 (6mA)
Focal Spot Size	0.5（IEC336）
CT Sensor Type	CMOS Flat Panel Detector
Detector Size(cm)	13 × 13
CT Field of View [D(cm) × H(cm)]	15 × 9 , 8 × 8 , 5 × 5 12 × 8 , 8 × 8 , 5 × 5
CT Voxel Size(mm)	0.25 0.15 0.1
CT Spatial Resolution(lp/mm)	2.0
CT Scanning Time(s)	13
CT Reconstruction Time(s)	15~40
Pan Sensor Type	CMOS Flat Panel Detector
Pan Image Size(mm)	233 × 96
Pan Pixel(mm)	0.1
Pan Scanning Time(s)	6 -18
Ceph Sensor Type	CCD TDI Detector
Ceph Imaging Size(mm)	（158~256）× 193
Ceph Pixel(μm)	27
Ceph Scanning Time(s)	7~11
Weight(kg)	With Ceph function:335 Without Ceph function:285
Unit Dimensions(mm)	1978 (W) × 1526 (D) × 1693 ~ 2393(H)
Packing Size(mm)	Case 1&2 (With Ceph)： 1830×1300×880，292Kg & 242Kg Case 1&2(without Ceph): 1830×1300×880，259Kg & 227Kg
Power	single-phase, AC220V/230V ± 10% 10A 50Hz ± 1Hz

*The date are subject to change without notice
*Ceph function is optional