

PRODUCT DATASHEET

Dental X-ray Tomographic System



HiRes3D-Plus

HiRes3D-Plus Is An Advanced with Larger-FOVs
Professional CBCT Product From LargeV

■ TECHNICAL FEATURES

- Multi-FOVs, Maximum FOV $\Phi 20 \times 17\text{cm}$
- Sitting Scan mode with Stable Automatic Chair Design
- Fast Reconstruction
- Fine Reconstruction Function
- Metal Artifact Correction
- Self Developed Software with Unique Algorithms
- High Connectivities and Compatibilities
- AI Technology applied



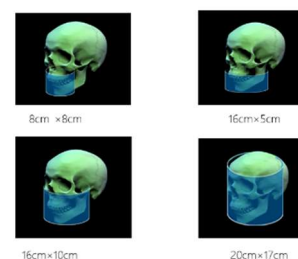
■ CONFIGURATIONS

By FOVs (cm)



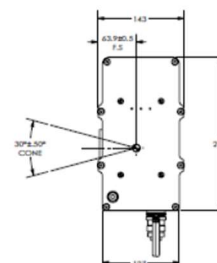
☐ $\Phi 20 \times 17 / 16 \times 10 / 16 \times 5 / 8 \times 8$

☐ Face Scan (Option)



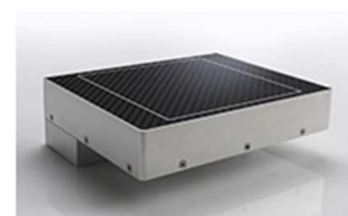
■ X-RAY GENERATOR

- Power : Max. 600W
- Voltage for Tube: 60-100kV
- Current for Tube: 2-10mA
- Focal Spot: 0.5mm (IEC 60336)
- Equivalent Total Filtration: $\geq 2.3\text{mm Al}@70\text{kV}$
- Radiation Leakage: $\leq 1\text{mGy/hr}$



■ FPD DETECTOR

- Technology: TFT + CsI
- Pixel Size: $120\mu\text{m}$
- A/D: $\geq 15\text{bits}$



■ MOTOR

- Servo motor
- High-precision Control
- DC Power Supply



■ WORKSTATION

- Core I8
- 4.0 G HZ /8 GB Memory
- HDD 4T
- 24 Inch Screen / VGA+HDMI
- 1000Mbps / Dual-Channel Network Card.
- Dual-Channel CAN Card
- Win10 Pro



■ BUILT-IN SOFTWARE

High Precision 3D Tomography Image Acquisition
Paranomic Reconstruction
Cephalometric Reconstruction
Tomography Reconstruction
TMJ Image Display
Interactive 3D display
Mark the Neural Canal
Simulation for Implant
Image Enhancements
Measurements on 2D
Mark in Image
Data managements
DICOM 3.0 Format Output
Burn Disc for Data
Print the Diagnostic Report
Cephalometric Display



■ GENERAL TECHNICAL SPECIFICATIONS

Overview of Equipment

Name:	Dental X-ray Tomographic System
Model:	HiRes3D-Plus
Manufacturer:	LargeV Instrument Corp. Ltd.
Purpose:	To generate the dental 3D images
Field of View:	Standard Mode: 160mm×100mm HiRes Mode: 80mm×80mm TMJ Mode: 160mm×50mm Maxillofacial Mode: 200mm×170mm
Voxel size:	Standard Mode:0.25mm HiRes Mode:0.125mm TMJ Mode:0.2mm Maxillofacial Mode:0.3mm
Maximum Resolution:	≥2.0lp/mm
Reconstruction time:	minimum time≤40s
High Voltage of X-ray Generator:	60,65,70,75,80,85,90,95,100kV
Anode Current of X-ray Generator:	2.0, 2.5, 3.0, 3.5, 4.0,4.5,5.0,5.5,6.0, 6.5,7.0,7.5,8.0,8.5,9.0,9.5,10mA
Time of Single Scan:	15s~21s
Time of Single Exposure:	13s~19s
Beam Limiter:	Fixed beam limiter, window size matching imaging field of view
Total Filtration:	Inherent equivalent filtration 2.5mmAl Additional equivalent filtration 2.0mmAl Total filtration: 4.5mmAl
Attenuation of Head Support:	≤1.2mmAl (100kV)
SID:	710mm
Distance from the Focus of X-ray to the Skin of Patient:	≥200mm
Protection Provided by the Equipment:	≥1mmPb
Beyond the detector range:	≥10mmPb
Fuse:	500VAC, 10A

Main Safety Features

Classification of protection against electric shock: Class I

Degree of protection against electric shock: Type B applied part (chair)

Degree of protection against liquid ingress: No protection (IPX0)

Operation mode: Continuous Operation

Rated voltage and frequency: Single-phase, 220/230VAC 50/60Hz

Input power: 1kVA

The equipment does not have the applied parts for the protection against defibrillation and discharge effect.

The equipment can't be used in an environment with flammable anesthetics mixture with air or with Oxygen or Nitrous Oxide.

The equipment is not permanently installed equipment.

Requirements for Power Supply

Input Voltage and Current: Single-phase, 220/230VAC, 10A

Frequency of Power Supply: 50/60(± 1)Hz

Power Capacity: 2kVA

Impedance of Power Supply: $\leq 1.0\Omega$

LAYOUT OF INSTALLATION

