

Dental X-ray solutions

iDT901



Dental X-ray radiographic
imaging system





Used in hospital | Dental clinics

Introduction

Dental X-ray radiographic imaging system

The dental radiography system then takes imaging of the condition of the teeth, It can be photographed with an all-round view of the dental tissues, jaw joints, and so on. Assisting doctors with pre-surgical programme instructions and postoperative scientific observation.

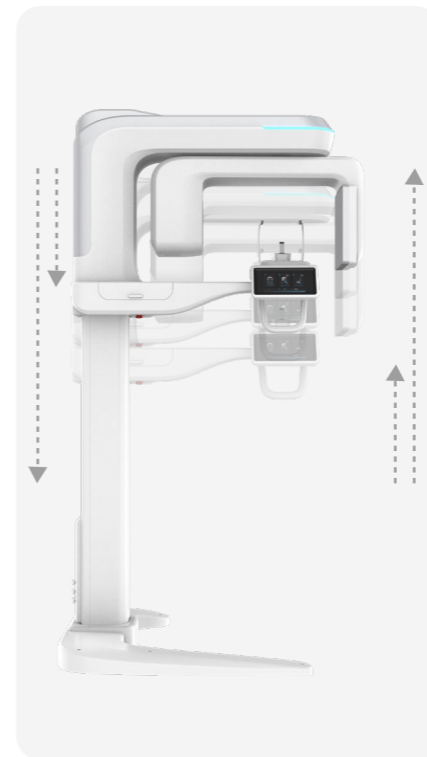


Product features

- 1 The large size (250mm X 300mm), large dynamic range flat panel detector is used. One scan of the whole skull with large field of view imaging.
- 2 The appearance of the conventional CBCT design to achieve the function of 3-in-1.
- 3 The new generation of cephalometric imaging technology, small footprint.
- 4 Adopt Ultra-fast scanning algorithm, CBCT up to 16s, Pano up to 12s.
- 5 Innovative frame design, the maximum imaging field of view reach up to 230mm X 180mm.



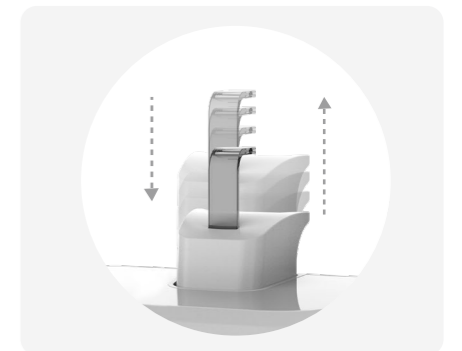
- 6 Adopt 1.2kw high power ray source, 15° anode target angle, allowing large FOV imaging for short SID.
- 7 Implant Simulation, automatic implant collision detection function between multiple implants and nerve canal.
- 8 Nerve canal depiction to clearly view information on the three-dimensional position of the nerve canal and teeth.
- 9 Implant database, rich and compatible with most implant systems on the market.
- 10 Metal Artifact Reduction software, used to reduce the effect of metal and other dense radiopaque objects.



Column up/down



U-arm rotation



Tooth bracket up/down



Chin rest moves back / forth

Product features

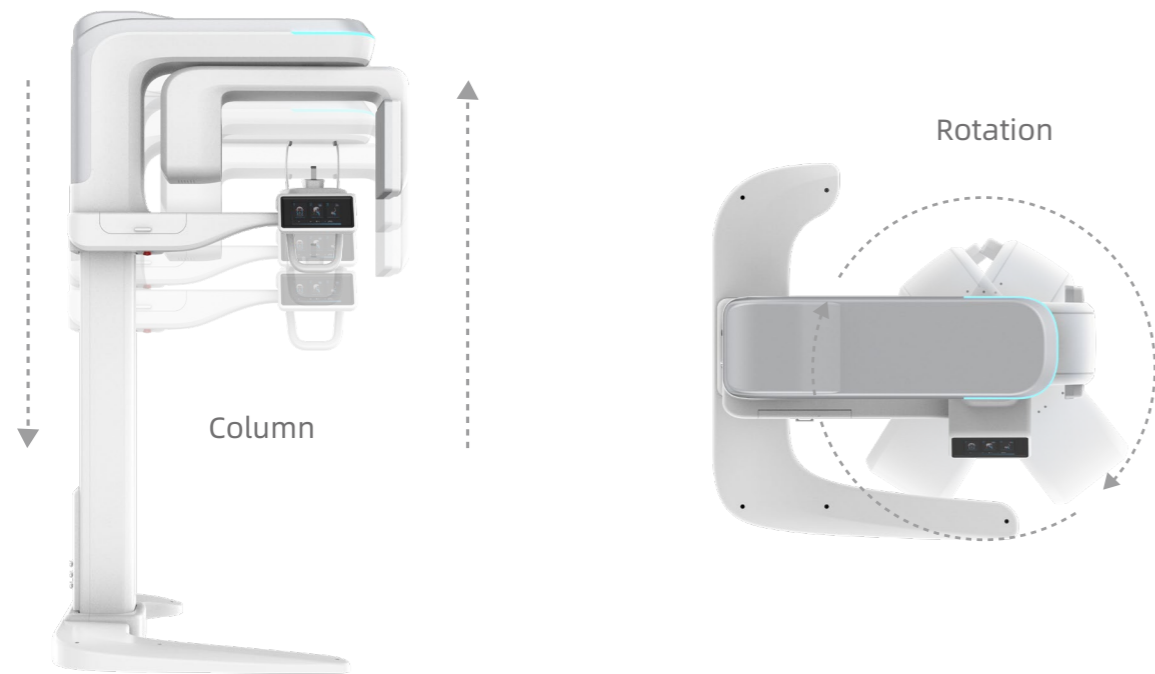
SID

Larger SID reduces the possibility of impact



Noise is minimal

Mechanical motion greatly reduces noise



Wheelchair

Open design supports wheelchairs



Humanized design storage box

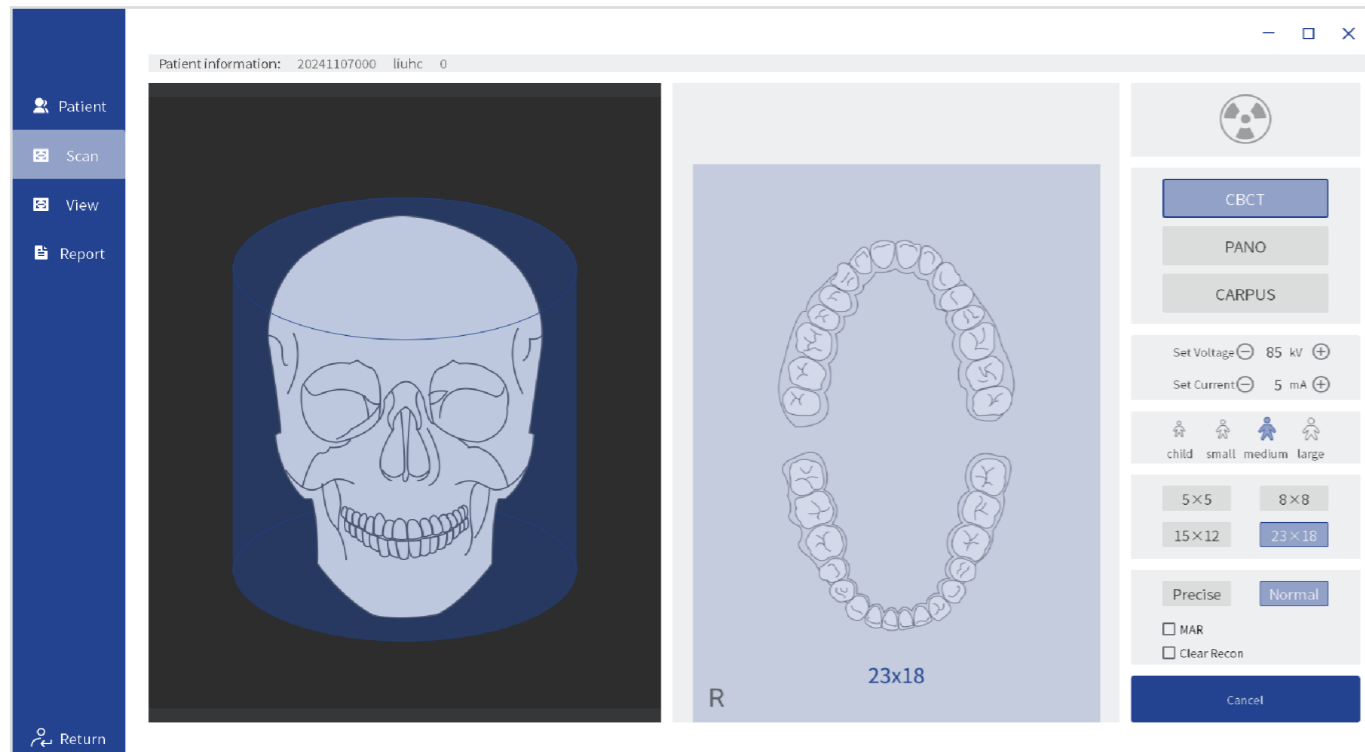
Mechanical motion greatly reduces noise



Application

GUI

Simplified design of shooting program



FOV

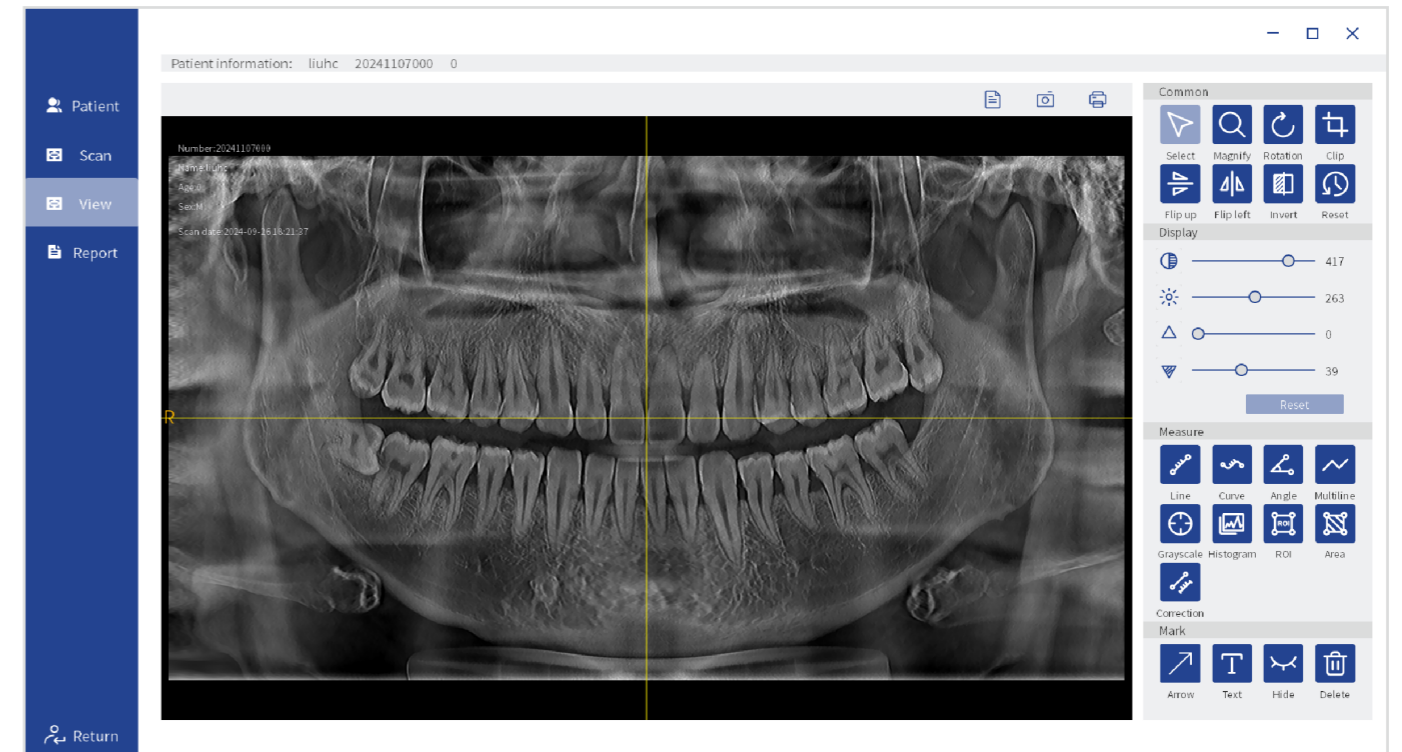
The world's largest FOV 23x18
 FOV 5X5 HIGH Reslution Voxels 70µm
 Widely compatible with FOV to meet clinical applications



Widely compatible with FOV to meet clinical applications

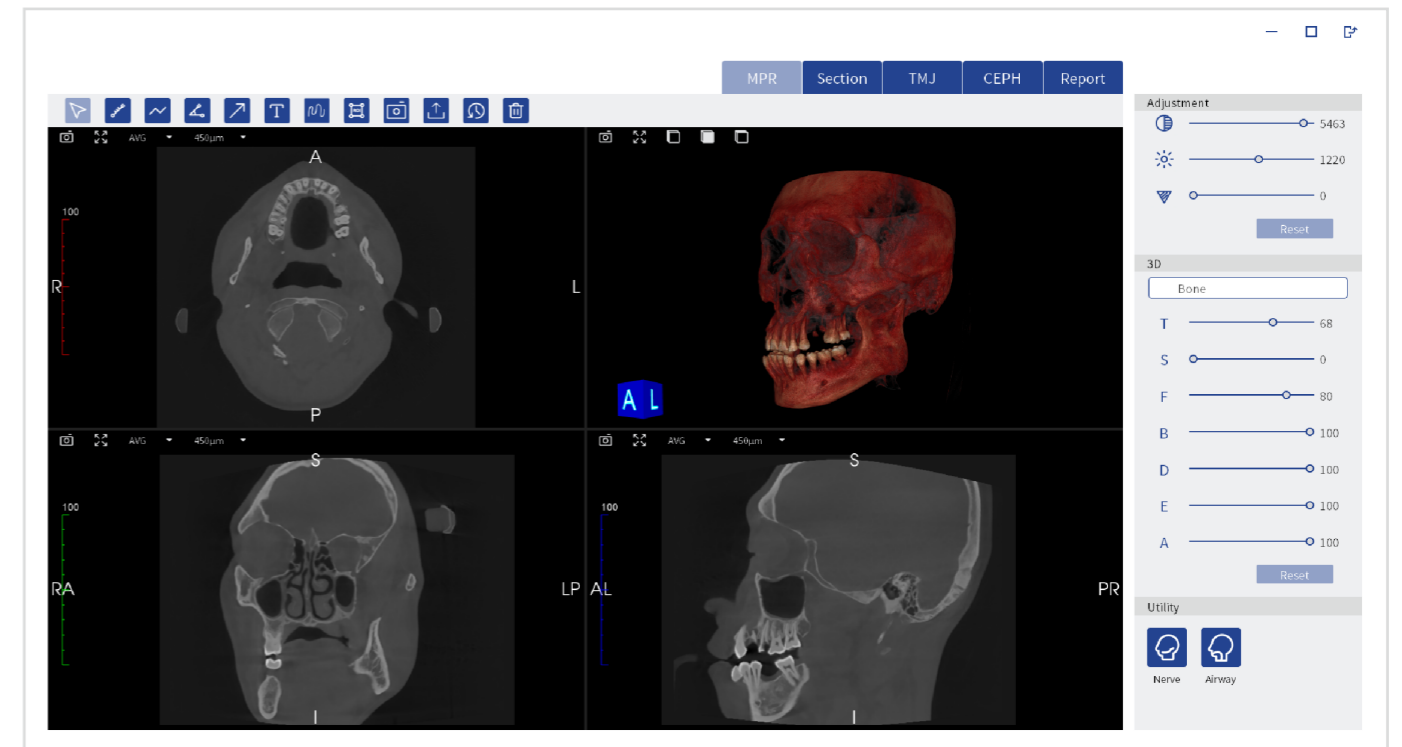
2DVIEWER

The software has complete functions and is easy to use



3DVIEWER

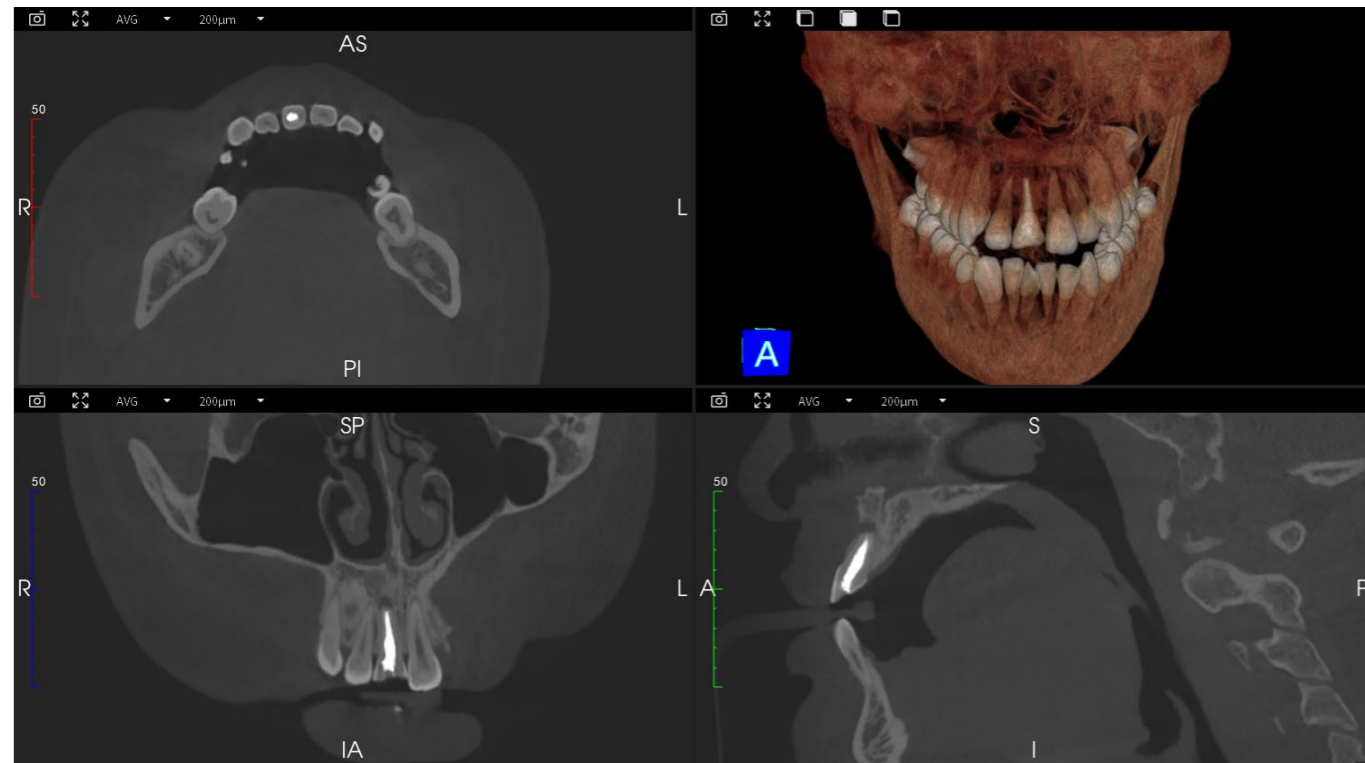
Includes MPR Sectioning TMJ CEPH and report modes, with diverse functions to meet clinical needs



Function

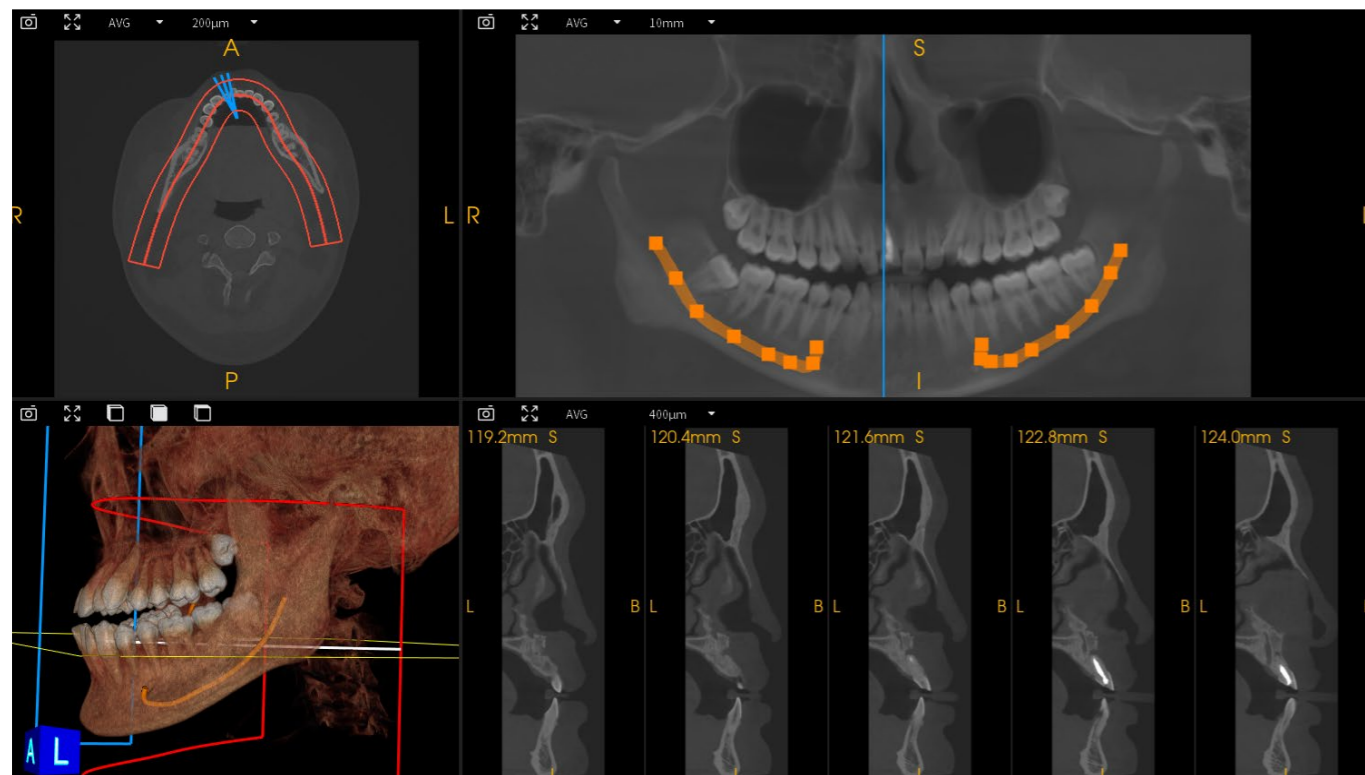
MPR

Full function mode meets various needs



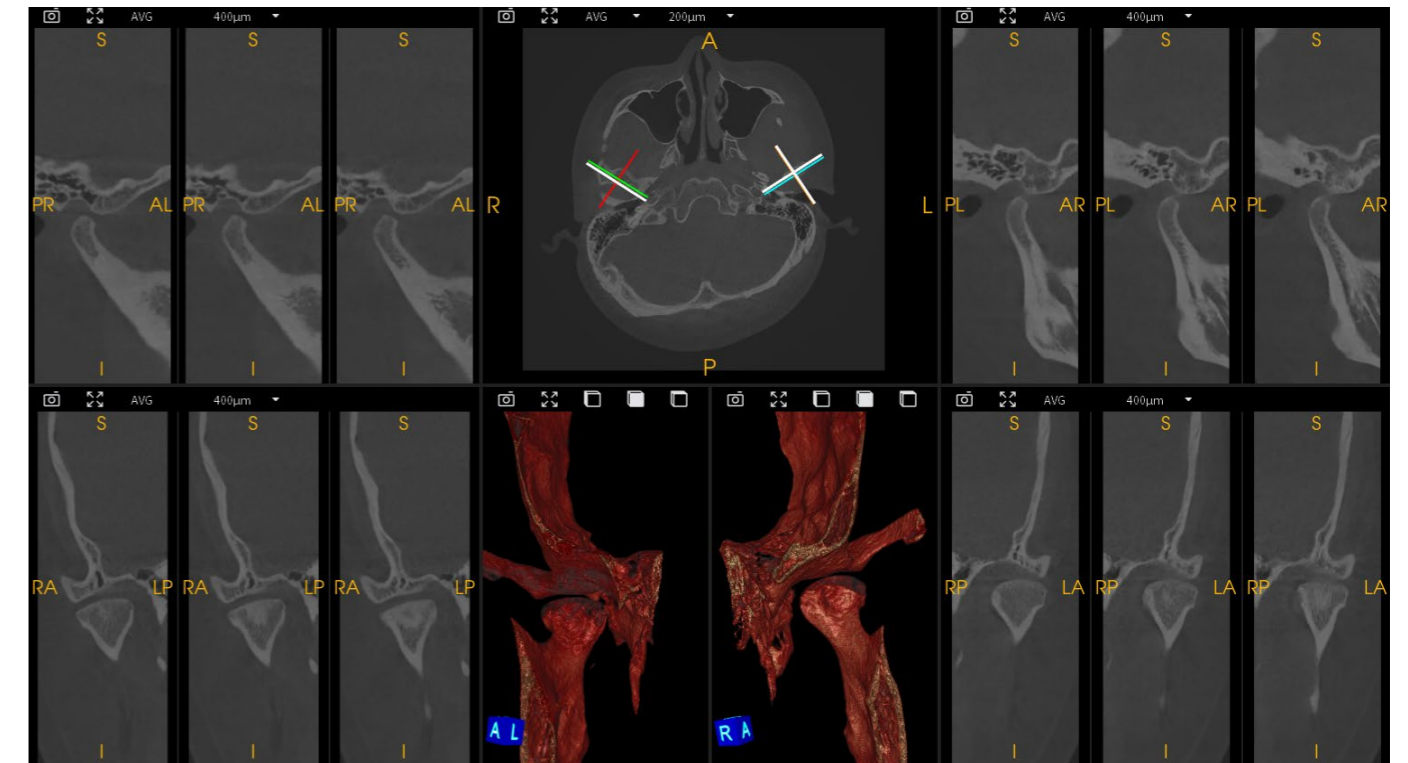
Arch & Nerves

Drawing dental arches and nerves to reduce surgical risks



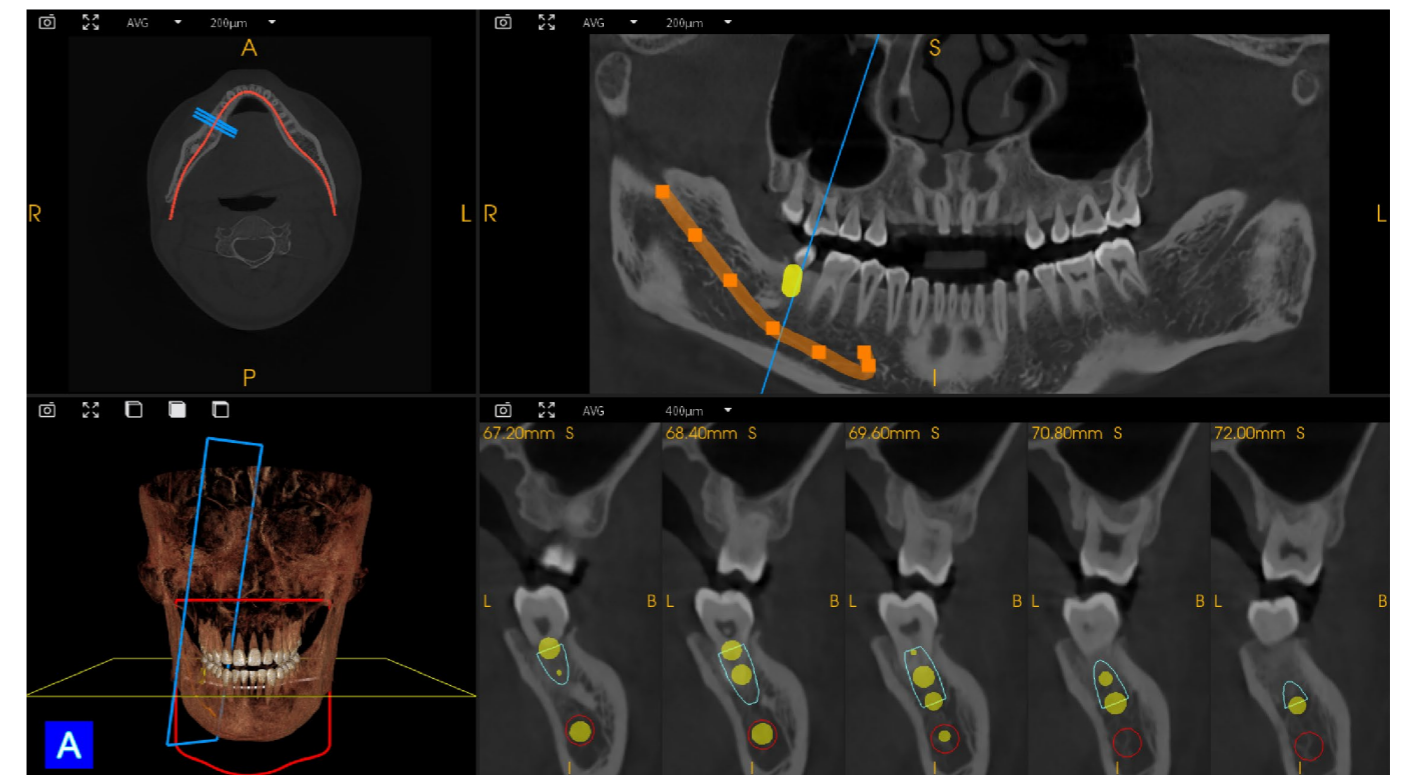
TMJ

TMJ diagnostic dedicated mode facilitates observation of wear and displacement



Implant & Cross

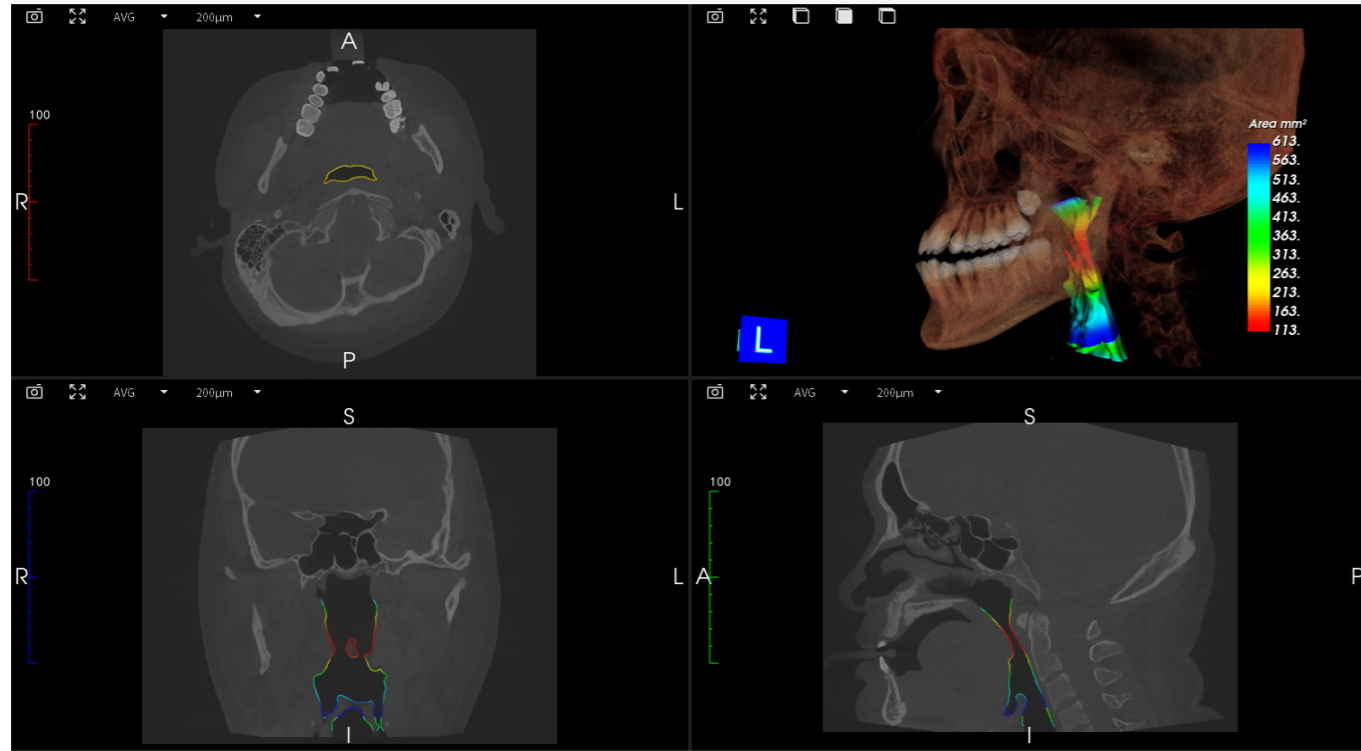
Planting surgery planning improves accuracy and reduces surgical risks



Function

Airway

Orthodontic examination of airways reduces orthodontic risks

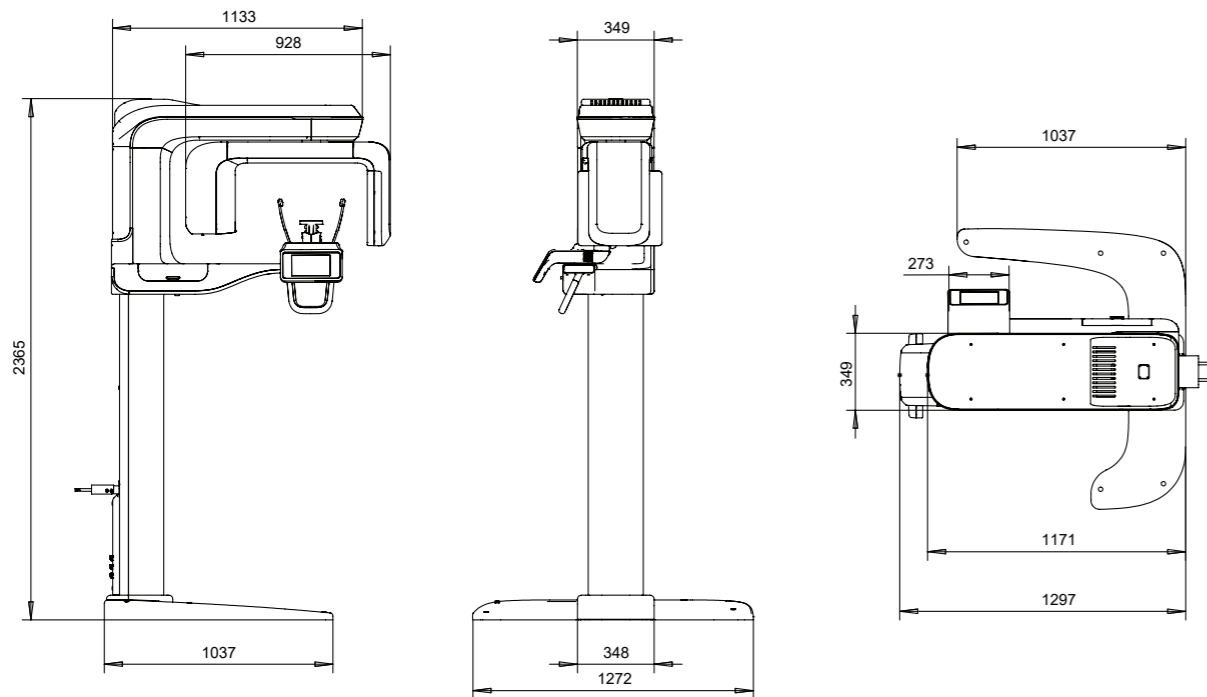


Technical Parameters

Detector		X-ray Tube	
Active area (mm ²)	250 × 300	Focal spots (mm)	0.5
FOV (mm ²)	150 × 120 230 × 180 80 × 80	Anode Angle (°)	15
AD Conversion (bit)	16	Anode Heat Capacity (kHU)	50
Pixel Pitch (μm)	100	Maximum anode power (W)	275
Dimensions (mm ³)	337 × 280 × 35		
Generator		Frame	
Power (kW)	1.2	Column lifting stroke (mm)	800
Electric source (V)	AC220±10%	X - axis motion range of U - type boom (mm)	0-70
KVp range (KVp)	60-120	Motion range of Y axis of U - type boom (mm)	0-70
mA range (mA)	1-20	Z-axis rotation range of U-type boom (°)	0 -540
		Frankfurt horizontal light moving range (mm)	60
		Tray longitudinal movement range (mm)	60
		System weight (kg)	196
		System size (mm ³)	1037 × 1297 × 2365

Dimension

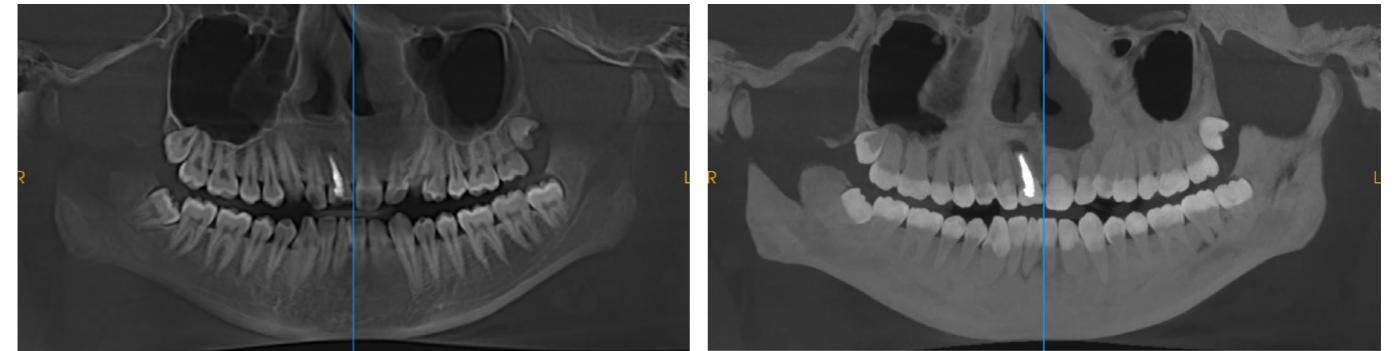
(Unit: mm)



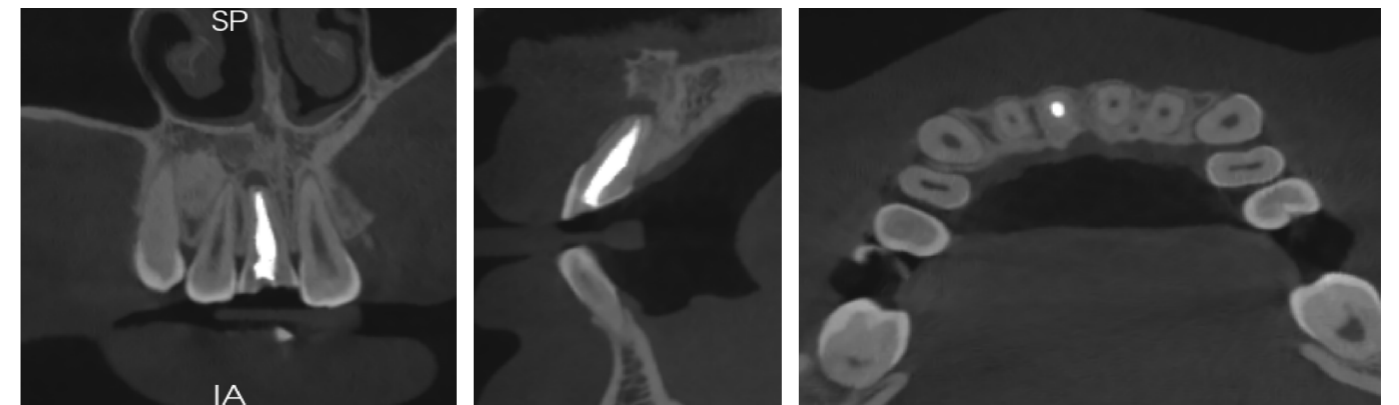
Film Display

CT RECON PANO

CT RECON PANO



ENDO



Good image quality can better detect subtle lesions