3-in-1 Smart CBCT

Dental Cone-Beam Computed Tomography Imaging System

Bondream 3D-1030 series

CBCT MODULE

PANO MODULE

CEPH MODULE

All-Around Intelligence for Every Discipline

① CBCT MODULE

The premium 3D-images are presented with Bondream 3D software from coronal,sagittal, axial and cross-sectional planes.High-resolution images enable accurate and reliable diagnosis.
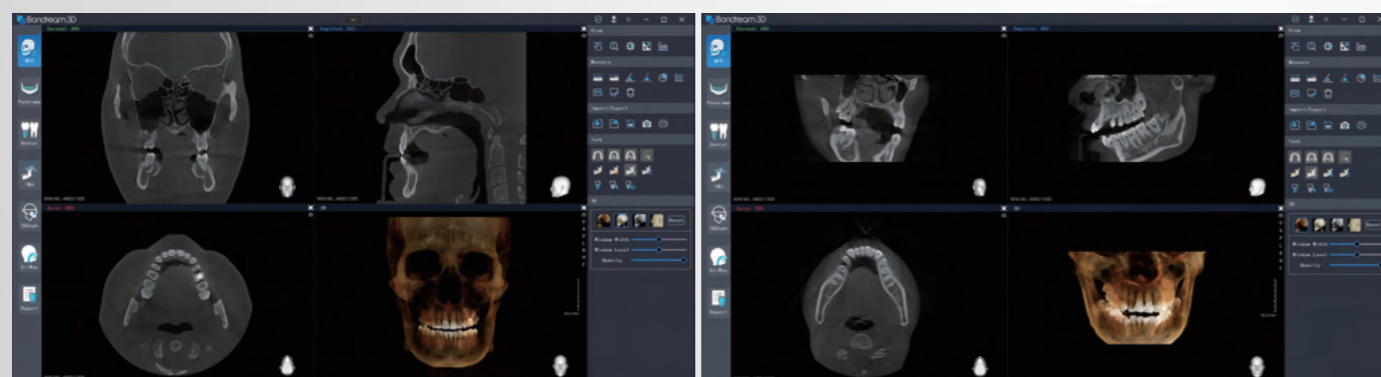
② PANO MODULE

Multiple Pano programs, supporting partial segmentation imaging.

③ CEPH MODULE

Multiple imaging for cephalometric and Carpus examinations.

CBCT MODULE

Super large FOV: a broad range of FOVs for every diagnostic need.

16x18   16x10   12x8   8x8   8x5   5x5

16*18cm   16*10cm   12*8cm   8*8cm   8*5cm   5*5cm
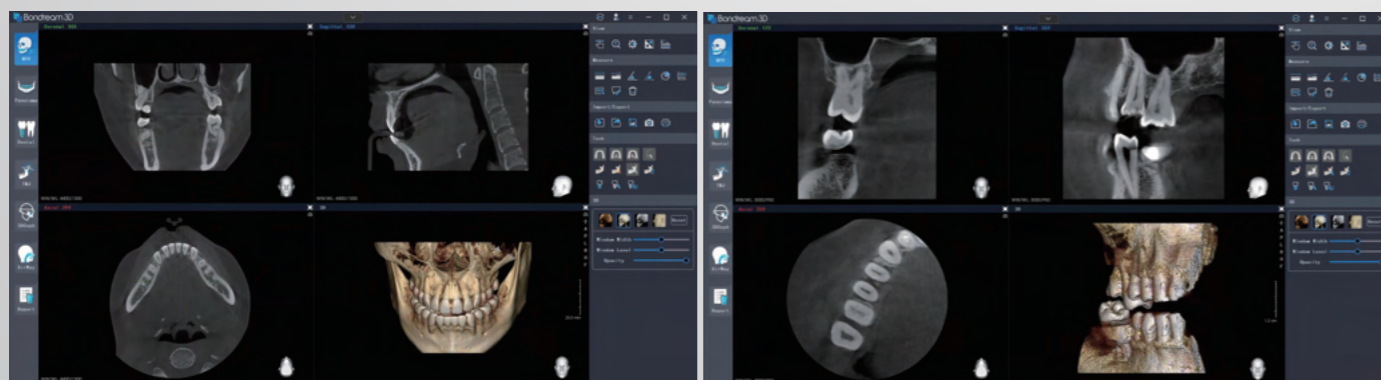
FOV 16 X 18 cm
Covering the entire dental-maxillofacial region, ideal tool for orthognathic surgery.

FOV 16 X 10 cm
Perfect for complete analysis of the full mouth, maxillary and mandibular structures, sinus and airway. Also both temporomandibular joints in a single scan.

FOV 12 X 8 cm
Diagnosis of upper and lower dentitions with precise checking of the surrounding bone.

FOV 5 X 5 cm
Ultra-high resolution examination of a specific region for complicated endodontic diagnosis and treatment.

New Level Image
AI-Based Quasi-Spectrum Metal Artifact Correction

Through big data learning ability, the system masters the rule of the metal energy variation, intelligently calculating and subsequently restraining metal photon starvation and beam hardening, thereby enhancing the imagaing qualities.
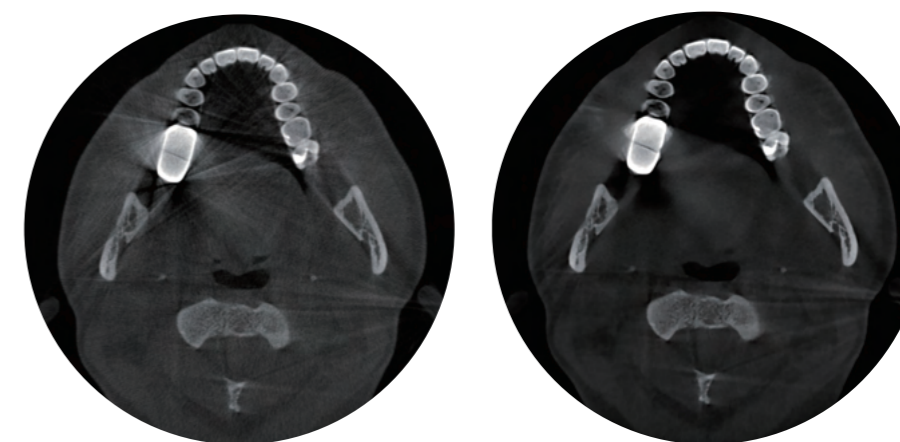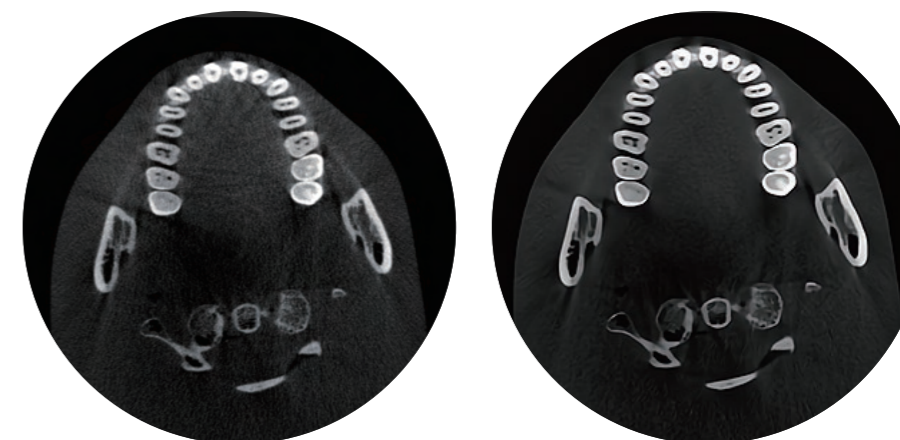
Without metal artifact correction

With metal artifact correction

Low-Dose CT with AI Enhanced Signal-to-Noise Ratio

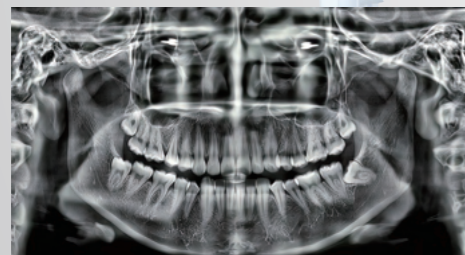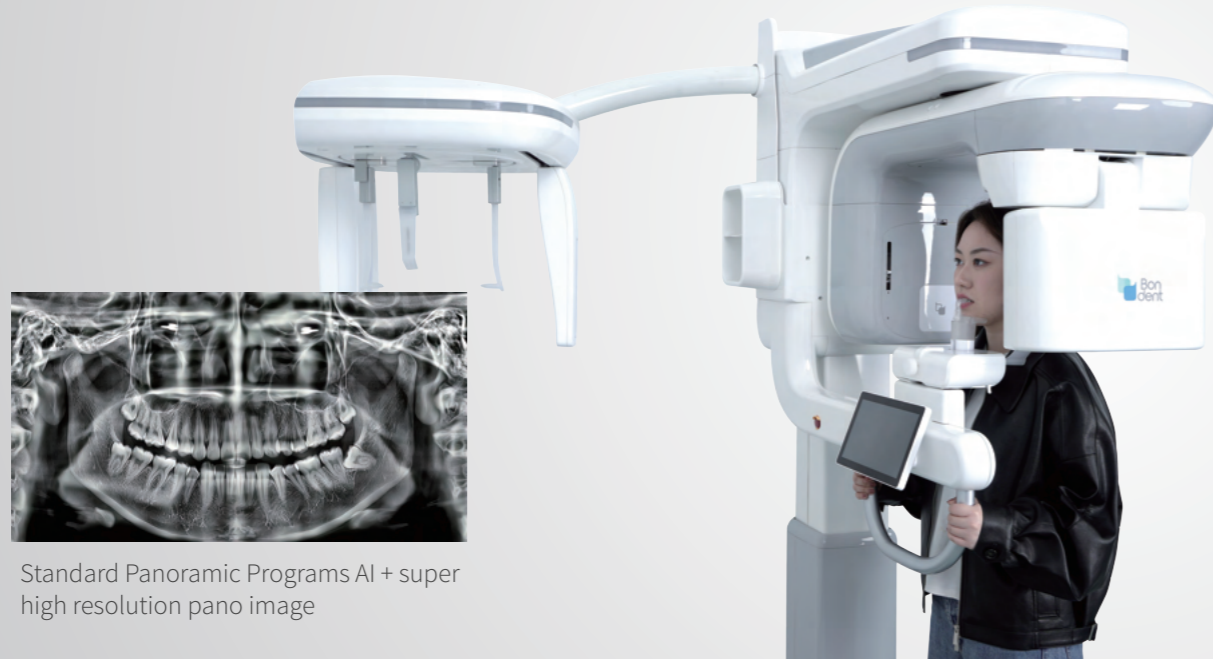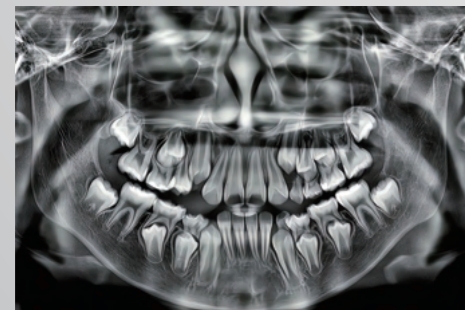The images remain true to life and unchanged despite noise reduction.

Low dose image

AI + Low dose image
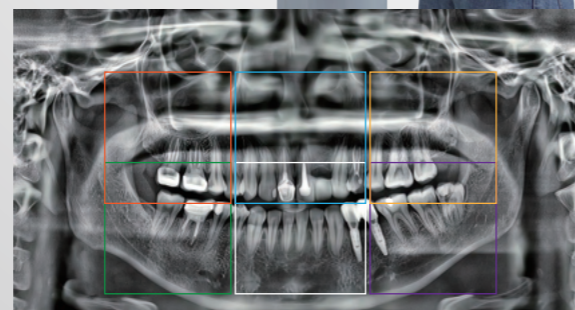
PANO MODULE

⊘ Standard Panoramic Programs, Paediatric Panoramic Program, Horizontal and Vertical Segmenting Program, TMJ Program
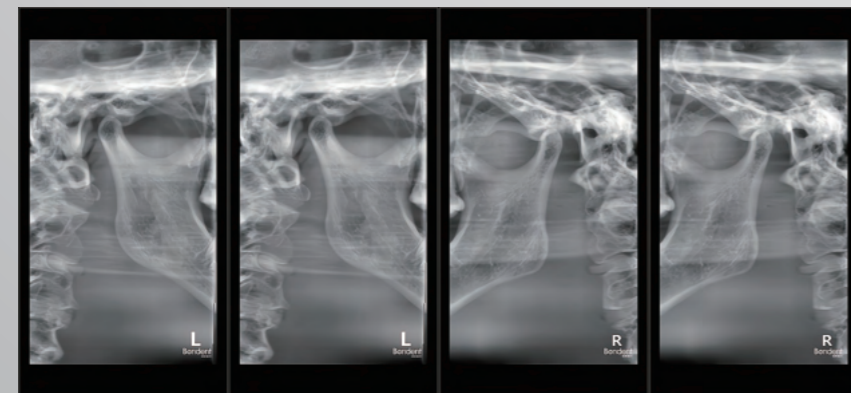
Standard Panoramic Programs AI + super high resolution pano image

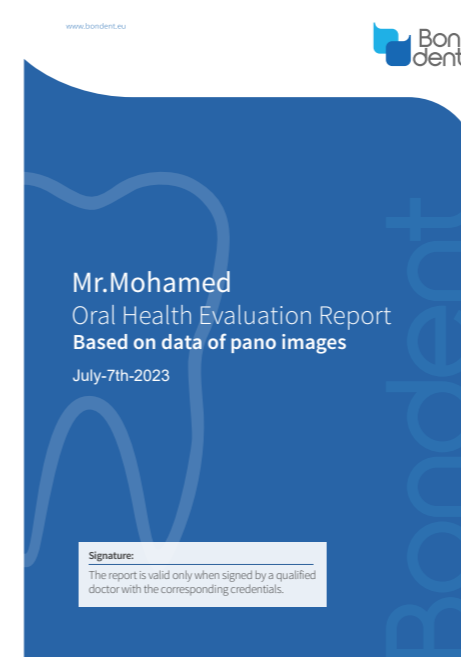Paediatric Panoramic Program Low dose primary dentition pano image

Horizontal and Vertical Segmenting Program Free zone selection for panoramic scan

TMJ Program
LL or PA with open or closed mouth

⊘ AI Pano

The algorithm works out the dental arch for each individual patient, generating 22 slices of pano imagessimultaneously.

www.bondent.eu

Bon dent

Mr.Mohamed
Oral Health Evaluation Report
Based on data of pano images
July-7th-2023

Signature:
The report is valid only when signed by a qualified doctor with the corresponding credentials.

⊘ BonDiag: Smart AI Panoramic Diagnosis Software

AI diagnosis with just one click, generating oral health reports within seconds, strengthening doctor-patient communication
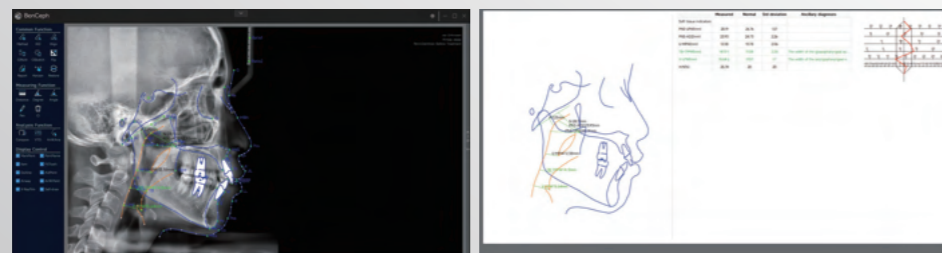
CEPH MODULE

⊘ LAT,PA and CARPUS radiography

⊘ BonCeph: Smart Ceph Measurement software allows cephalometric analysis within seconds
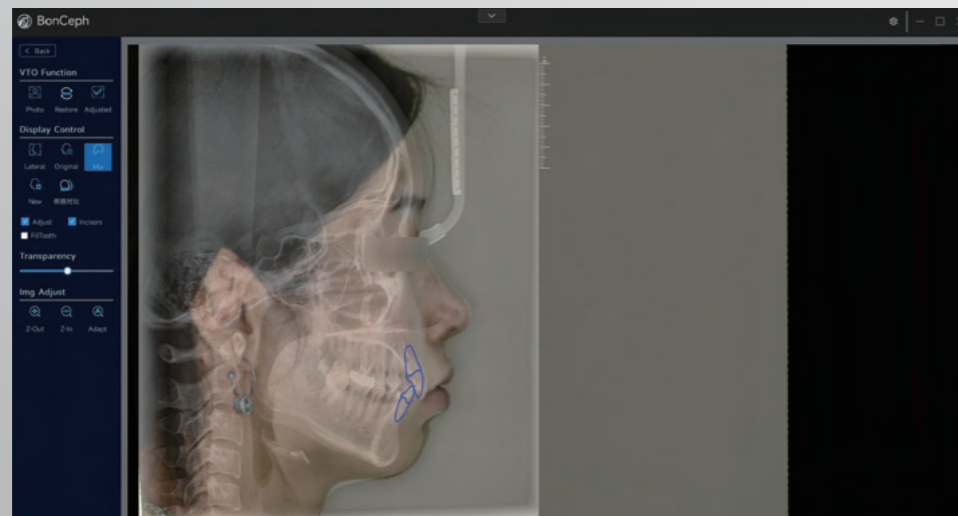
Bondent AI system automatically identifies orthodontic anatomical landmarks. Generates the examination report with just a single click.
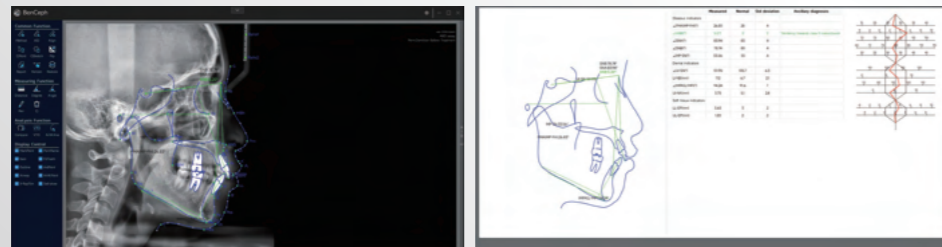
Marks the airway automatically. Generates the airway report with just one click

VTO function, intuitive simulation of the post-treatment condition.

◄ Lateral Ceph(half)
  Rapid in 8.4 sec

Later Ceph(full)
◄ 30cm ultra-wide field

PA Ceph
The high resolution CMOS
detector contribute for
◄ premium images

Carpus Image
Determining bone age
based on
the development of
phalanges,
◄ carpal bones, and radius.
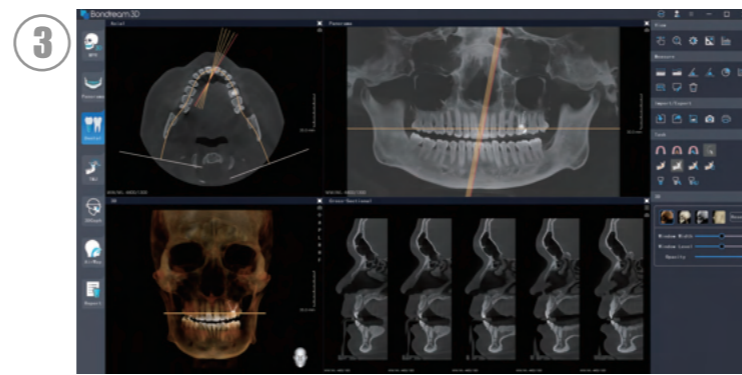
Smarter Software
Bondream 3D

AI Post-processing Software, More Smarter, More Efficient, More Safer

- AI nerve locations
- AI simulation of implant positions
- AI output of Ceph images

- AI 3D pano automatic display
- AI TMJ automatic display
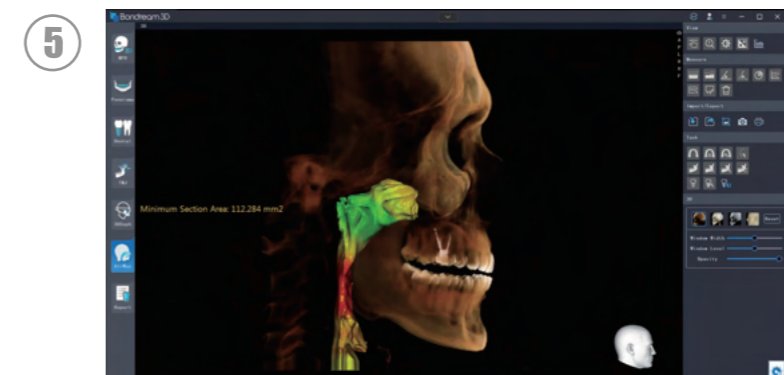- Customization of the diagnosis report
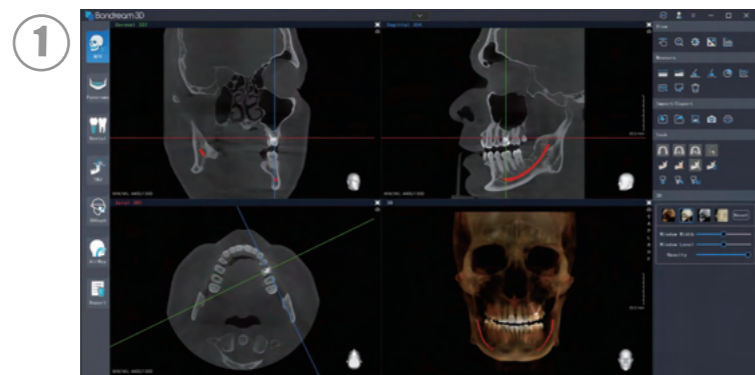
① **3D Model**
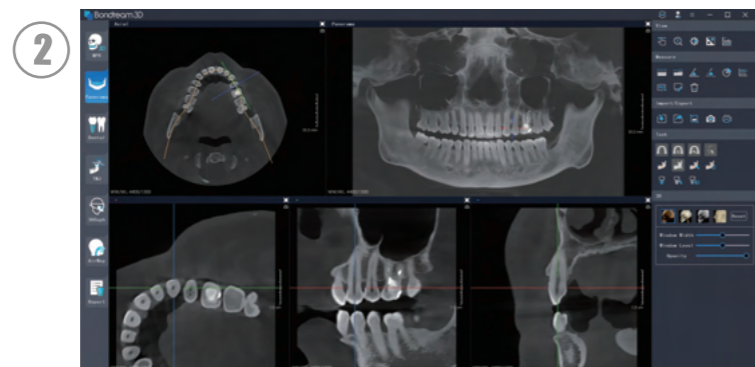AI nerve locations, maps nerves within one second

③ **Dental Model**
AI simulation of implant treatment plans.
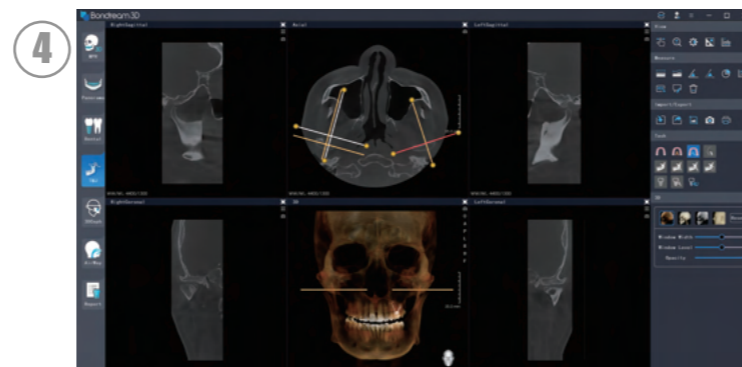Observation in multiple slices to find optimal positioning

⑤ **Airway Model**
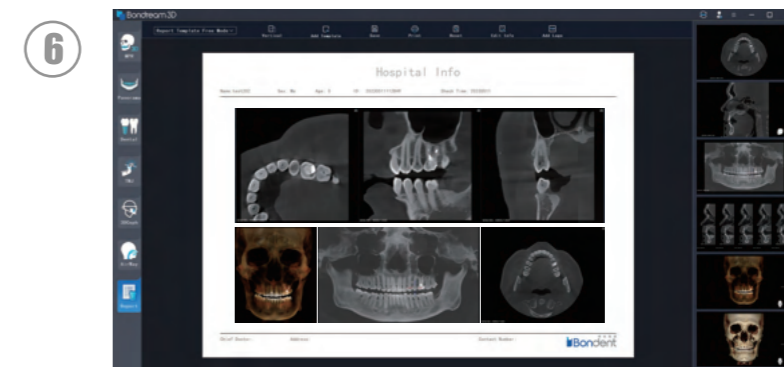AI Generation of lateral image and front images

② **Pano Model**
AI 3D Pano, quick positioning with 3D displays

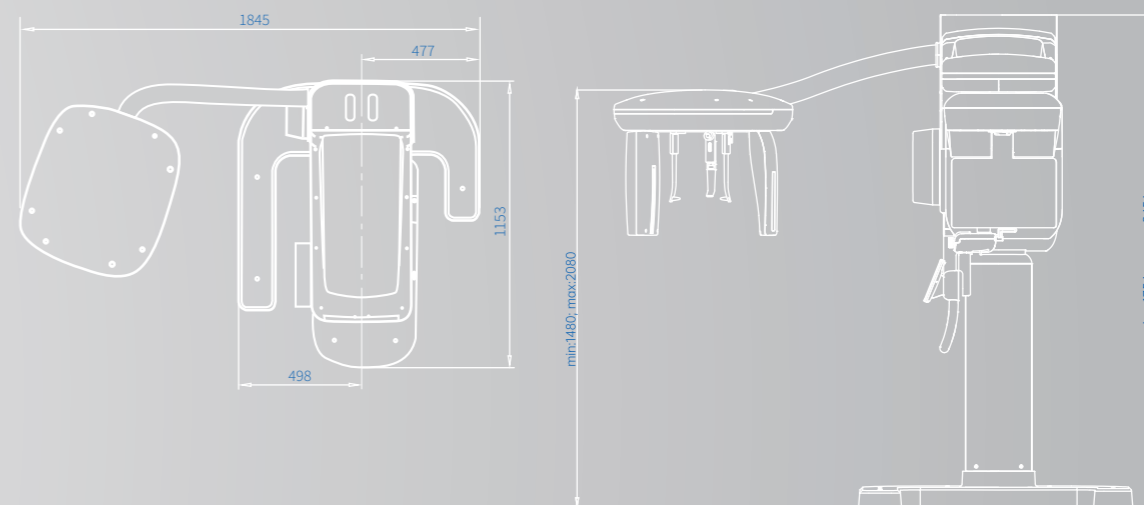④ **TMJ Model**
AI displays TMJ automatically

⑥ **Report Model**
Ultra easy to use for every individual patient report edition

Dimensions of Equipment

1845

477

1153

498

min-1480; max-2080

min- 1754; max- 2456

Technical Specification

X-ray beam	Impulse type
Tube voltage	60-100kV
Tube current	1-10mA
Focal spot	0.5mm
CT detector	CsI+IGZO TFT
Ceph detector	CsI+CMOS
FOVs	16*18cm; 16*10cm; 12*8cm; 8*8cm; 8*5cm; 5*5cm
Grey scale	16bit
Scan time	Pano: 9.6s;14s
	CT: 8s; 24s; 36s
	Ceph: 8.4s; 14s
Reconstruction time	＜60s
Vertical Movement Range(mm)	1754-2456
Column Movement Range (mm)	Not Less Than 600
Min. Dimension in Reset State (mm)	975*1153*1754
Max. Motion Dimension after Installation (mm)	1021*1153*2456
Required Min. Dimension of Installation Area (mm)	1070*2500*2456
Net weight	245kgs

Bondream 3D-1030 series