Bondent

Introduction

In Q3 2018, Bondent formed a strategic alliance with the Chicago based XPI Co. to proudly present the state of art Bondream® 3D-1020 dental CBCT. With its superior image quality and metal artifact reduction capability, Bondream® 3D-1020 wowed the users in many markets.

Developed by XPI intelligent medical imaging laboratory in Chicago, IL, USA

Intelligence for More Possibilities

Bondream 1020 Family

Bringing digital dental workflow into a new level.

Bondream 1020S

Single 16 x 8 cm scanning can cover sinus & TMJ area.

Bondream 1020MS

Single 18 x 10 cm scanning makes more diagnosis possible.

They bring you unsurpassed images, friendly operation experience. Advanced design makes a smooth workflow for your clinic needs.

Multiple FOV selection, there are always right solutions.

Bondent

Smart ***3-in-1*** imaging system

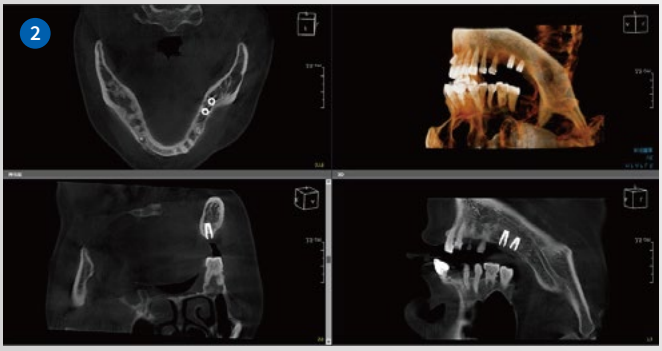
Reliable solution for your diagnosis and treatment plan

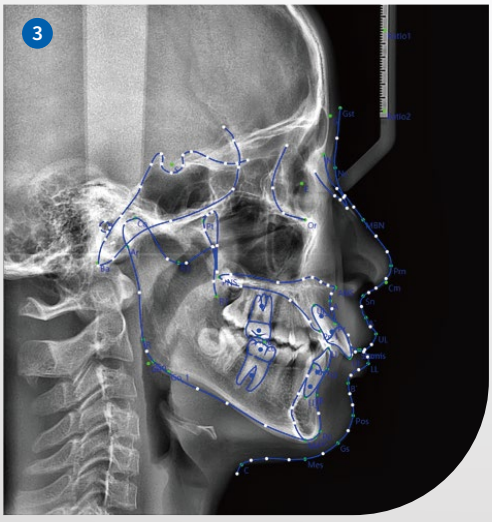
Bondream 1020 integrates Pano, 3D CT and cephalometric projections

1 The AI technology helps solve clinical issues with smarter images.
In a single scan, Bondream 1020 can generate 21 different focal layers to export the best one that suits your diagnostic needs.

2 The integration of axial, coronal and sagittal slices makes visible every corner of the patient's anatomy – both hard and soft tissues.
Multiple modules on the On-Demand software provide practical tools for diagnosis and treatment.

3 The extremely-smart cephalometric technology allows improved orthodontic applications.

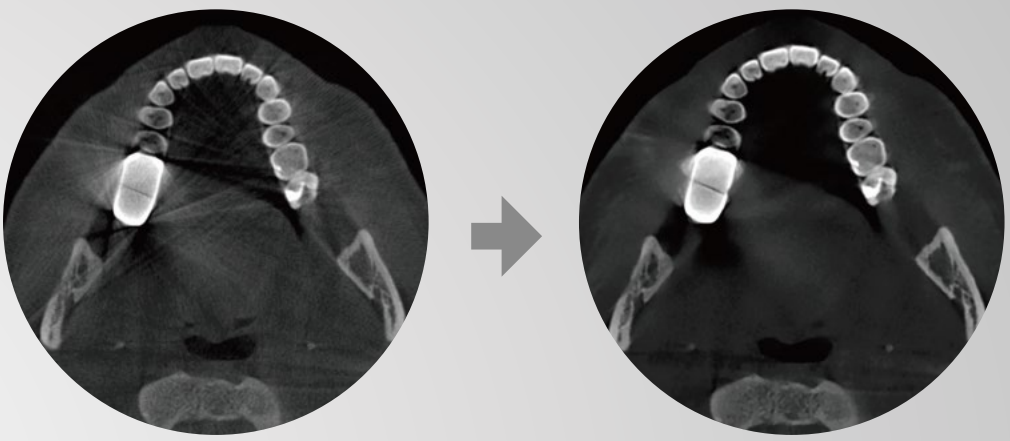




Intelligent Solutions for Exceptional Images

The core algorithms team from US XPI Intelligent Medical Imaging Research and Development Laboratory guarantees an ideal imaging geometry, perfect usability and crystal-clear images free from artifacts and noise affection.

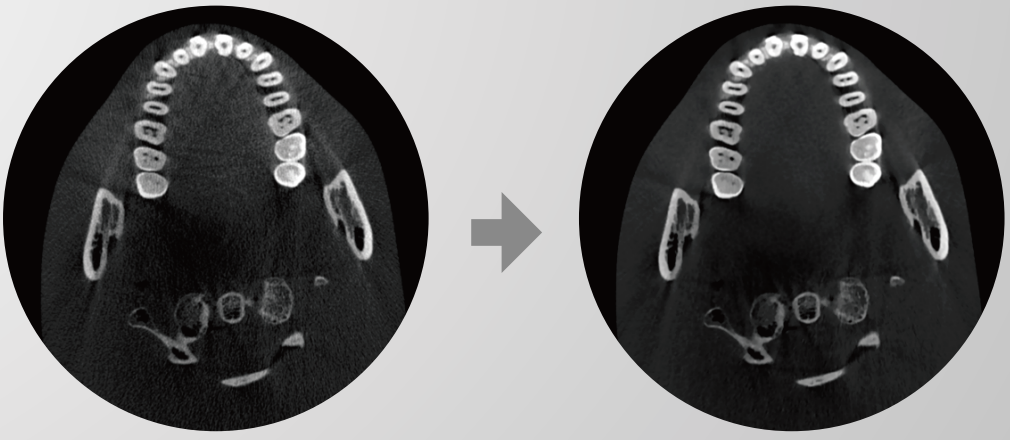
Metal Artifact Reduction



Without artifact removal

With the 1020 artifact removal algorithms

Noise Reduction at Low dose



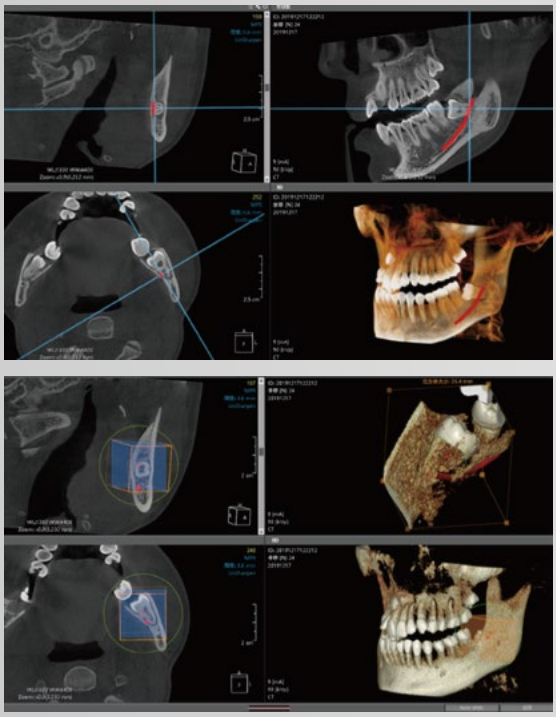
Low dose

After Noise Reduction

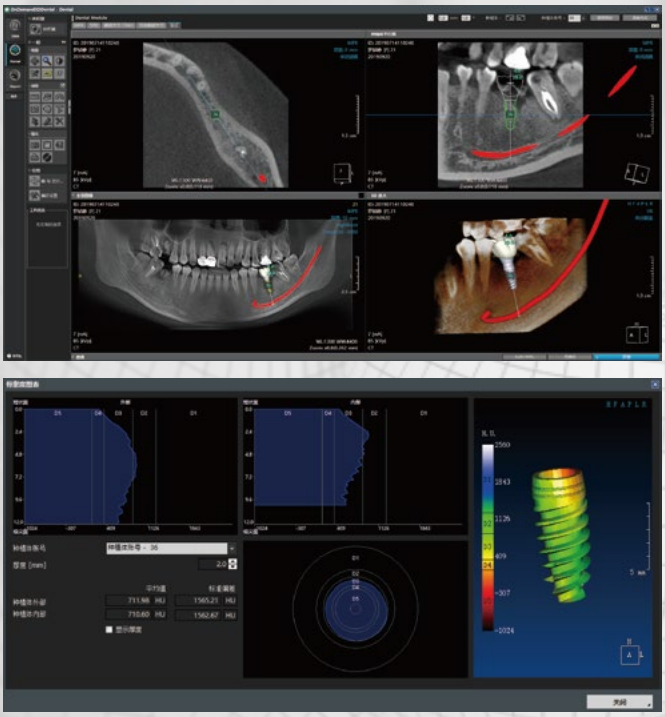
Grasp details in dynamic

Studying the curvatures of each patient's maxilla and mandible, the system automatically generates 33 slices of 0.8mm-thick CT-panoramic images at just one touch.
You can view 16 CT panoramic images on the screen simultaneously. It's much more intuitive and convenient compared with traditional panoramic images.

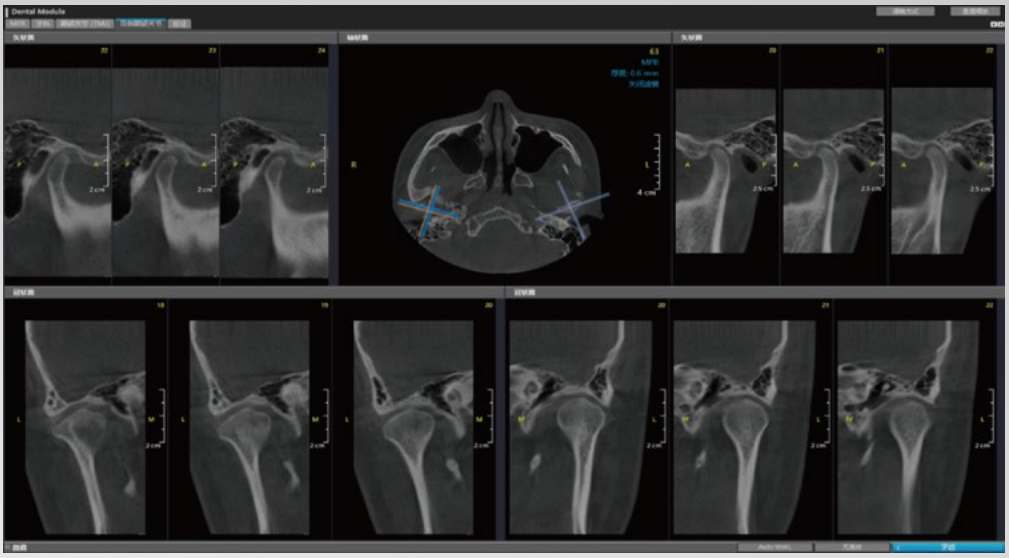
3D Clinical Cases



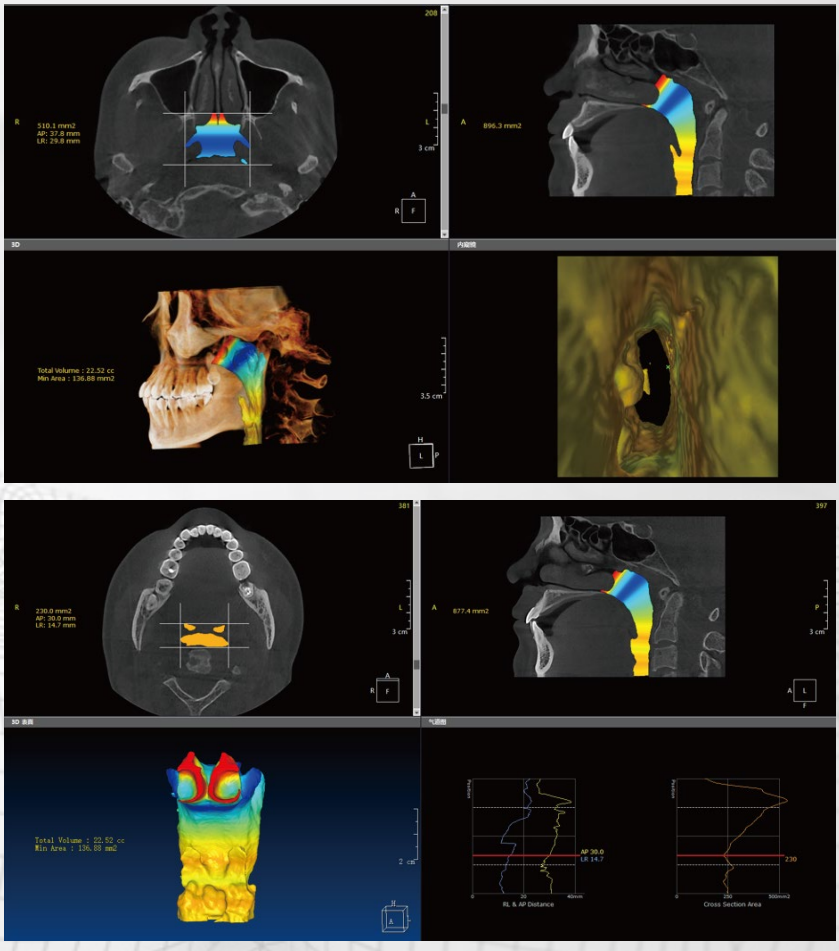
Complicated Impacted-Teeth Checking



Restoration-oriented Implant Simulation

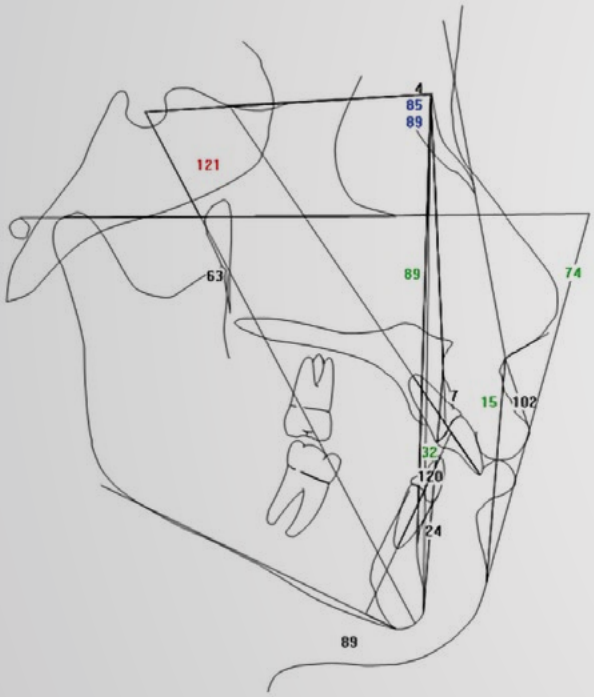


Bilateral TMJ Evaluation



Airway Observation

Professional Cephalometric Measurement Software



The ceph scan with comfort ear rod and head positioner ensures accurate ceph images in short seconds.

Smart ceph analysis software. The AI automatic tracing function offers professional but time-saving solutions.

Technical Specifications

Model	Bondent 1020S	Bondent 1020E	Bondent 1020MS
Field of View	16 x 8cm	16 x 8cm	18 x 10cm
Camera Mode	CT, Pano, Ceph	CT, Pano	CT, Pano, Ceph
Sensor Type	CT, Pano (CMOS), Ceph (CCD)	CT, Pano (CMOS)	CT, Pano (CMOS)
Detector Switching Mode	Automatic	/	Automatic
Patient Positioning	Standing/Seated/Wheelchair Accessbile	Standing/Seated/Wheelchair Accessbile	Standing/Seated/Wheelchair Accessbile
Pixel Value	70um, 100um, 150um, 200um, 250um, 300um	70um, 100um, 150um, 200um, 250um, 300um	70um, 100um, 150um, 200um, 250um, 300um
Spatial Resolution	≥1.8lp/mm (CT and Panoramic mode), ≥2.0lp/mm (Cephlo Mode)	≥1.8lp/mm (CT and Panoramic mode), ≥2.0lp/mm (Cephlo Mode)	≥1.8lp/mm (CT and Panoramic mode), ≥2.0lp/mm (Cephlo Mode)
Gray Scale	14bit	14bit	14bit
Reconstruction Time	Less than 60s	Less than 60s	Less than 60s
Focal spot	0.5mm	0.5mm	0.5mm
Exposure Time	CT: 8s or 24s; Pano: 14s; Ceph: 4.2s or 8.4s	CT: 8s or 24s; Pano: 14s;	CT: 8s or 24s; Pano: 14s; Ceph: 4.2s or 8.4s
Work Station PC	Model: Hp workstation Graphics card: GTX1660 (6G only) Monitor: HP 23.8'', 1920×1080 resolution Operation System: Windows 10 64 Workstations ASIA CPU: i5 Memory: 16GB DDR4 2666 DIMM ECC Registered Memory Hard Disk: 1TB 7200RPM SATA 3.5in, 256G SSD Drive: 9.5mm DVD-Writer 1st ODD Keyboard: Business Slim PS/2 Wired Keyboard PRC Mouse: HP Optical USB Mouse	Model: Hp workstation Graphics card: GTX1660 (6G only) Monitor: HP 23.8'', 1920×1080 resolution Operation System: Windows 10 64 Workstations ASIA CPU: i5 Memory: 16GB DDR4 2666 DIMM ECC Registered Memory Hard Disk: 1TB 7200RPM SATA 3.5in, 256G SSD Drive: 9.5mm DVD-Writer 1st ODD Keyboard: Business Slim PS/2 Wired Keyboard PRC Mouse: HP Optical USB Mouse	Model: Hp workstation Graphics card: GTX1660 (6G only) Monitor: HP 23.8'', 1920×1080 resolution Operation System: Windows 10 64 Workstations ASIA CPU: i5 Memory: 16GB DDR4 2666 DIMM ECC Registered Memory Hard Disk: 1TB 7200RPM SATA 3.5in, 256G SSD Drive: 9.5mm DVD-Writer 1st ODD Keyboard: Business Slim PS/2 Wired Keyboard PRC Mouse: HP Optical USB Mouse
Software	Workstation Program		
	Bon-Master (Image management); Bon-Capture (Patient scanning); OnDemand3D™ (3D post-processing)	Bon-Master (Image management); Bon-Capture (Patient scanning); OnDemand3D™ (3D post-processing)	Bon-Master (Image management); Bon-Capture (Patient scanning); OnDemand3D™ (3D post-processing)
	Embedded Program		
	Bon-Touch (Touchscreen)	Bon-Touch (Touchscreen)	Bon-Touch (Touchscreen)
Installation	Upright	Upright	Upright
Minimum available work space requirement (mm)	1933(D) 1304(W)* 2292(H)	1134(D) 1304(W)* 2292(H)	1933(D) 1304(W)* 2292(H)

The data are subject to change without notice.