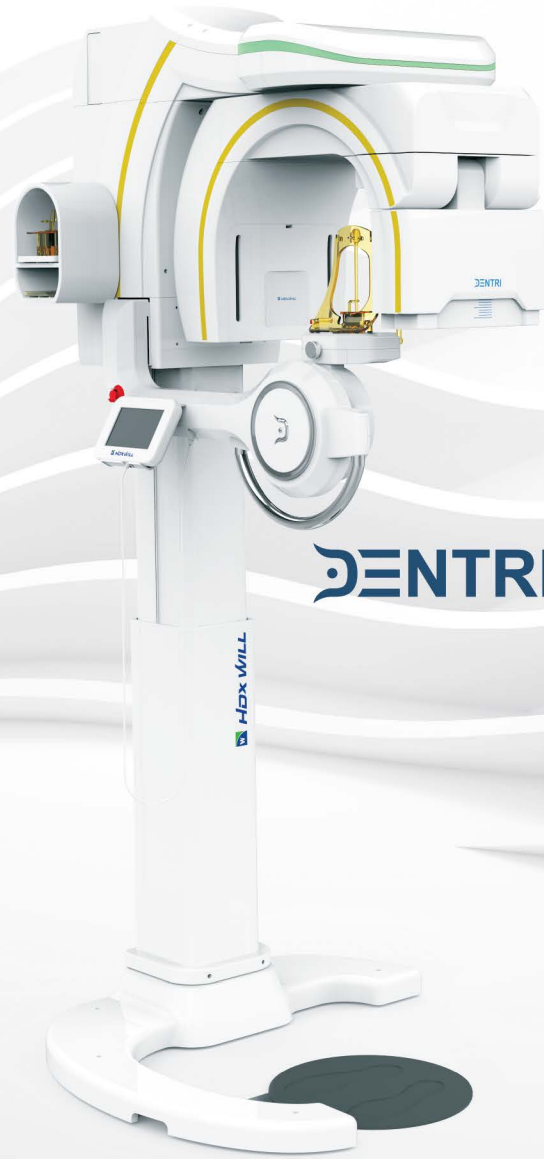# HDX WILL
CBCT Series

Innovation for better imaging
today and tomorrow

ECOOC

DENTRImax

HDX WILL Imaging Technology

HDXCYOPTIX

HDX CYOPTIX is the name of how we achieve our image clarity. It's our "ONGOING" software technology development in which creates striking contrast and sharpness of images. We strive to provide you with the latest technology.

From it's inception, CYOPTIX has been continually evolving. Now our state of the art imaging reconstruction algorithm finds the best value of each voxel and enhances image contrast and sharpness.
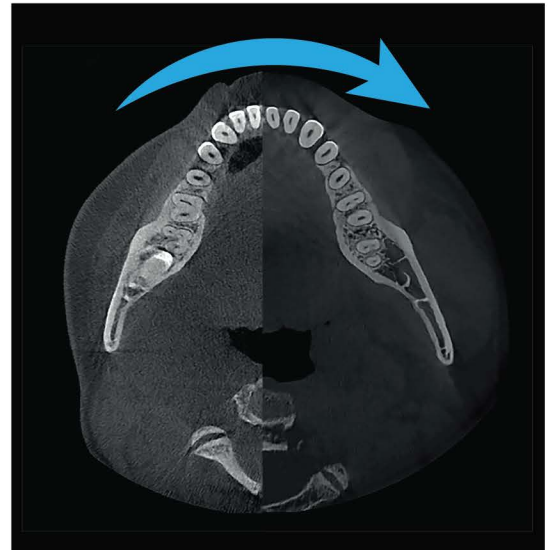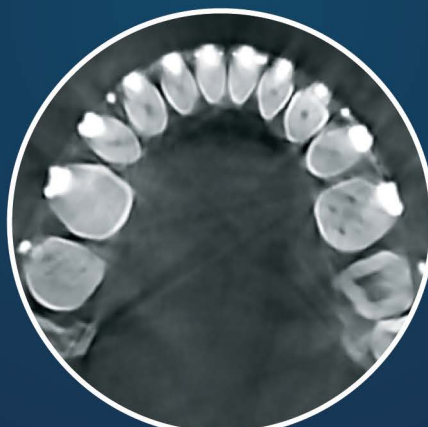

PrecisionMAR™

When a dental professional takes a CBCT image and finds metal present in the mouth, errors such as artifacts, shadows, and white streaks may critically degrade the image. These artifacts can mask and distort the anatomical structures, increasing stress and, in some cases, add difficulty diagnosing the bone or supporting areas near metal.

HDX WILL's latest technology is now applied to metal artifact reduction. PrecisionMAR™ offers unprecedented clarity around metal, improving diagnostics and planning.

▪ Minimal scatter
▪ Reduced shading artifact
▪ Clearly define bone and teeth structures around metal

MAR off

MAR

PrecisionMAR

ECOOC

Wide 16x9 cm FOV allows for the entire dentition, TMJ, nose, ear or pediatric dental arch to be captured in one scan. Various options are available from 3x3cm to 16x9cm FOV
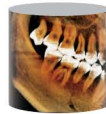

16x9 cm
Dental Arch mode

16x9 cm
Nose / Ear Mode

10x8 cm
Child Mode

Free FOV
(3x3 cm - 12x9 cm)

Model CT scan

DENTRImax

Expansive FOV 18x16.5 cm maximizes your practice. Dentri Max provides you with various FOV size options from 3x3 cm to 18x16.5cm allowing diagnosis for most maxillofacial structures

18x16.5 cm
Dental Arch mode

16x9 cm
Dental Arch mode

16x9 cm
Nose / Ear Mode

Free FOV
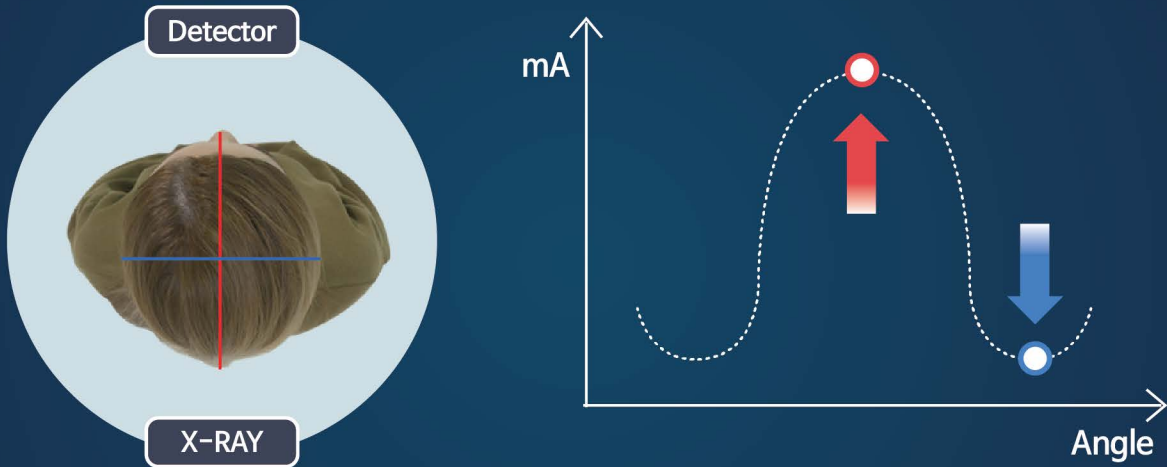(3x3 cm - 12x9 cm)

10x8 cm
Child Mode

Model CT scan

Low Radiation Dose

An additionally equipped filter significantly reduces radiation exposure. HDX WILL's imaging reconstruction with Adaptive Exposure Control (AEC) technology still allows superior image quality.
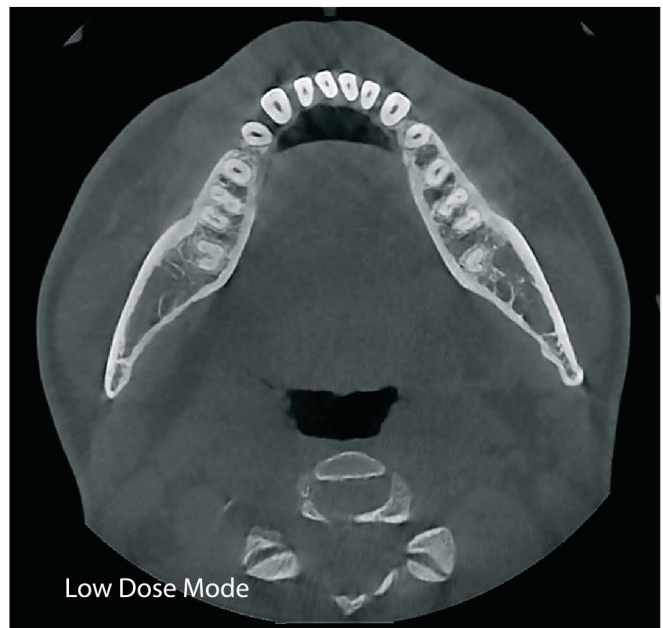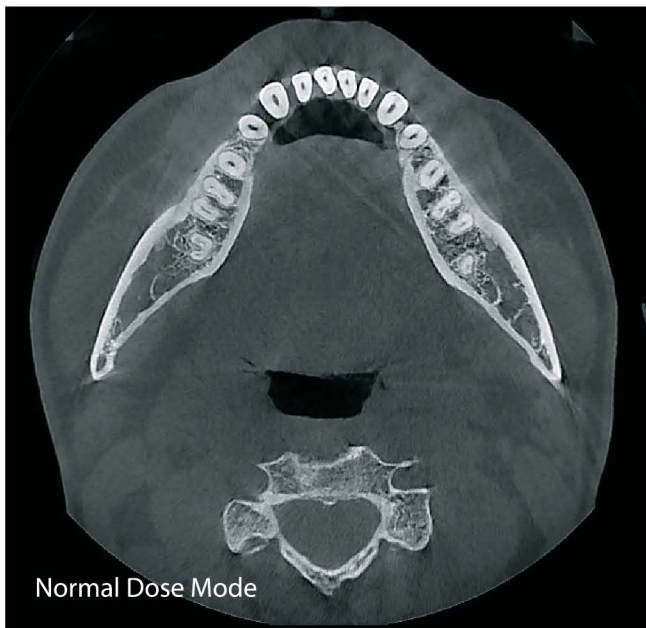
Adaptive Exposure Control(AEC)

Detector

X-RAY

mA

Angle

AEC technology optimizes radiation exposure level correspondent to the thickness of the object.

Standard PANO

CBCT scan with only HALF the dose of PANO scan
*16x9 cm FOV with Low Dose & AEC ON

Dentri Max

Eco-X

Normal Dose Mode

Low Dose Mode

Automize your Workflow

01 CT Recon PANO
Get a CBCT scan and reconstructed panorama with a single scan

CBCT Scan

+

Pano reconstructed from CBCT

02 Model Scan - Automatic STL creation
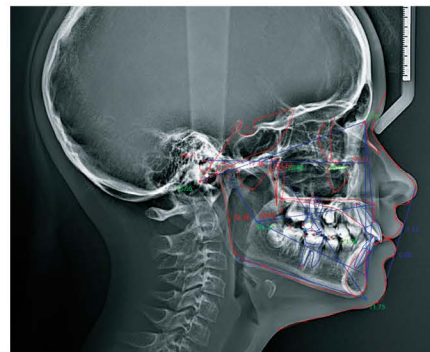Create an STL and CBCT DICOM instantaneously, no extra software required.

• Stone model
• Impression
• Denture

CBCT scanning with model scan mode

CBCT DICOM

+

STL

03 Auto Landmark Tracing
Spend less time at the computer, and more time with your patient with auto landmark tracing.

Cephalometric X-ray Scanning

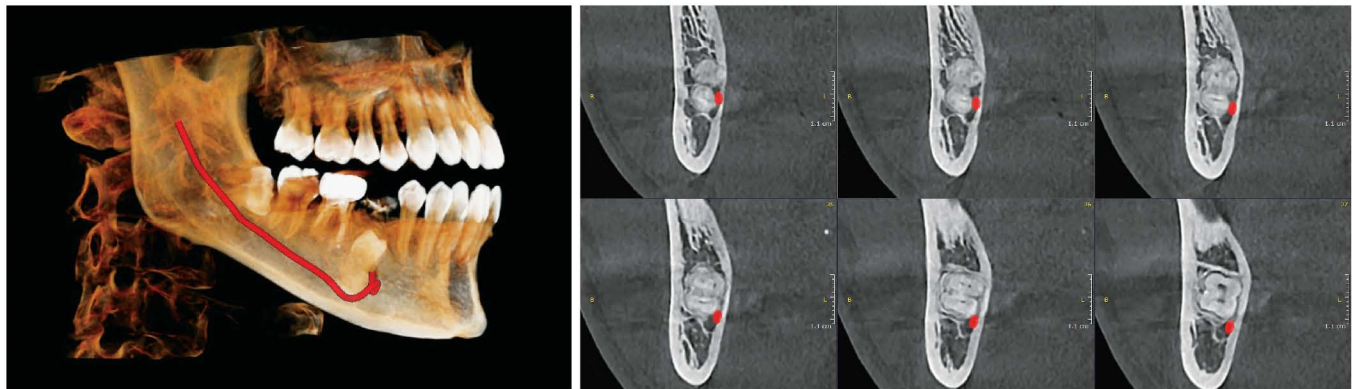Instant auto-tracing with Willceph, the cephalometric analysis software

Specialty

Digital Implant Planning
Superior imaging and complete implant software imaging package to accurately plan implant procedures.
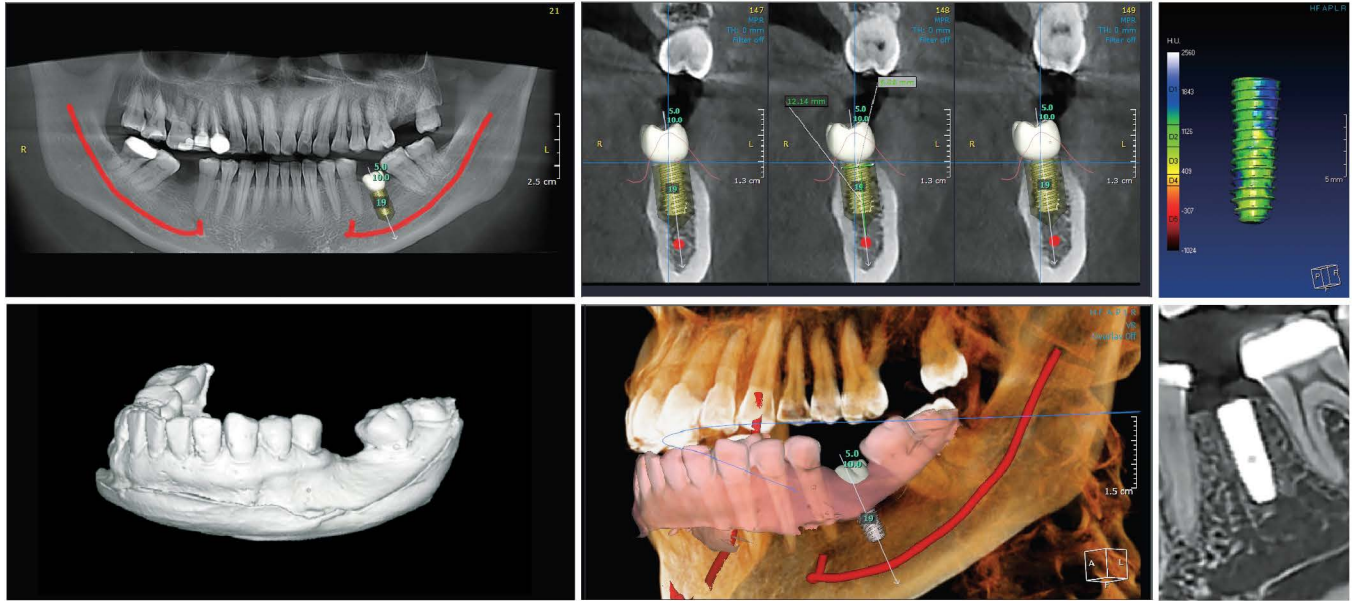
Oral Surgery
Clear and accurate imaging and image manipulation to visualize anatomic structures.

Endodontics
Precise imaging for complete Endodontic evaluation before and after a procedure.
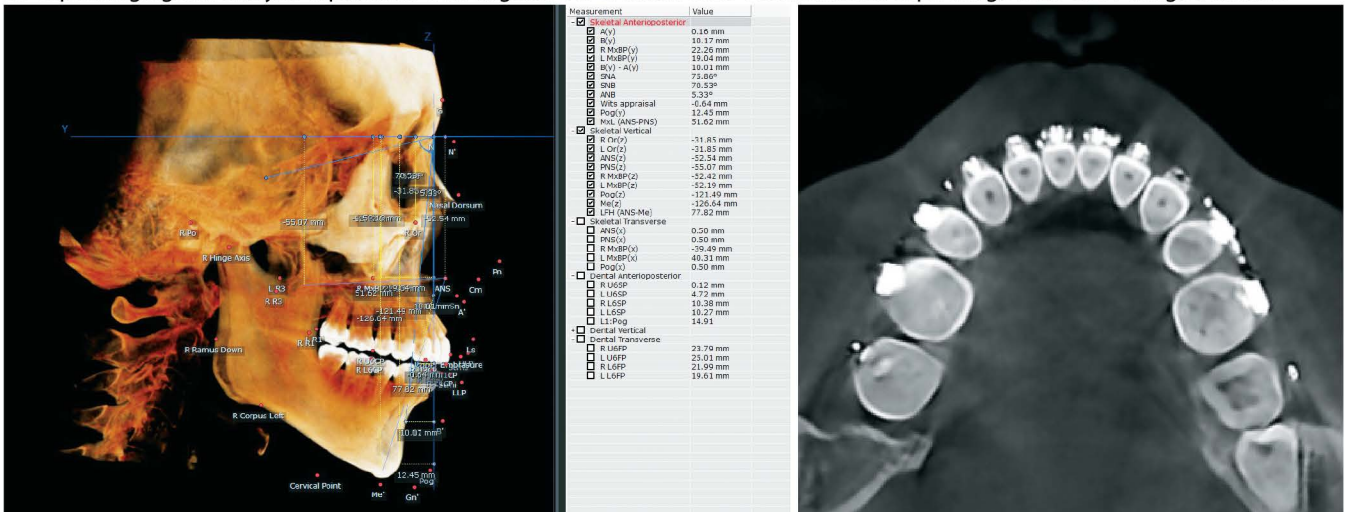
TMJ & Sleep Apnea

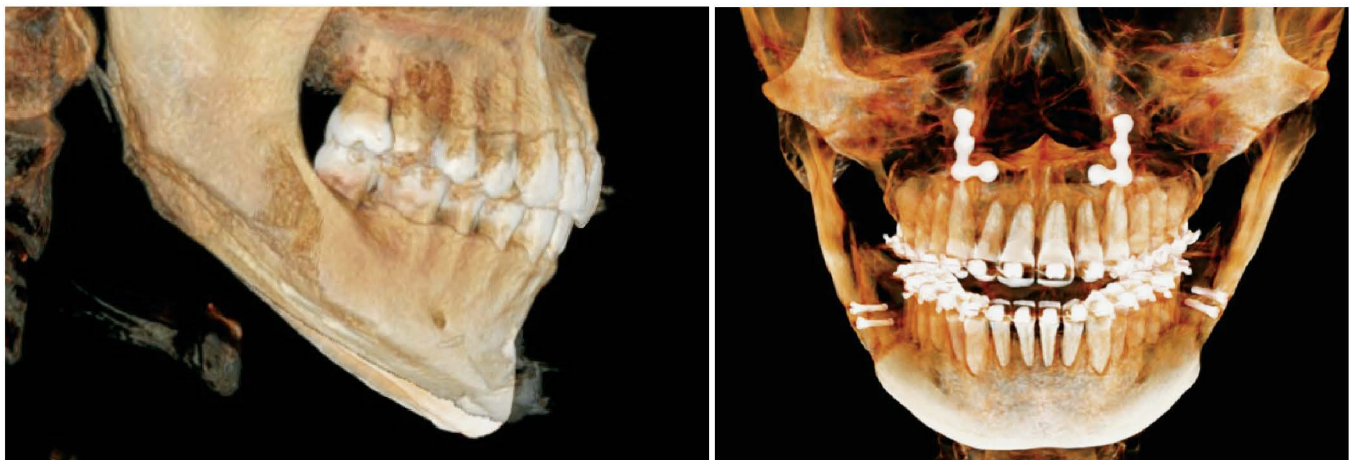Large FOV to acquire entirety of TMJ and airway structures for evaluation.

Orthodontics

3D ceph imaging and analysis capabilities with largest FOV. Creation of 2D reconstructed Ceph image from CBCT image available.

Maxillofacial Surgery

Complete and accurate imaging evaluation of anatomy for treatment planning.

Dedicated 2D Panoramic X-ray

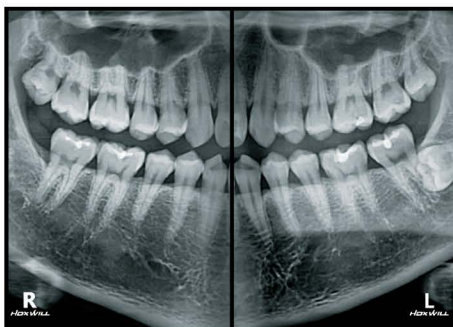| Auto Focus	Wide Image	Bitewings	TMJ	Low Dose Mode
Minimized distortion, Maximized ability to obtain clear images	Impeccable wide image view for diagnosis	Extraoral Bitewing options	TMJ diagnostic x-ray	Rapid scan time, Minimized dosage to patient

Auto Focus

Auto Focus OFF

Auto Focus ON

Versatile Panorama Features

Panoramic Options
Panorama
Bitewings(Both)
Bitewing(Left or Right)
TMJ(Both)
TMJ(Closed or Open)

Dose Settings
Adult Normal
Adult Low Dose Mode
Child Normal
Child Low Dose Mode

Panorama Dose comparison

Normal

Low dose (Adult)

Low dose (Child)
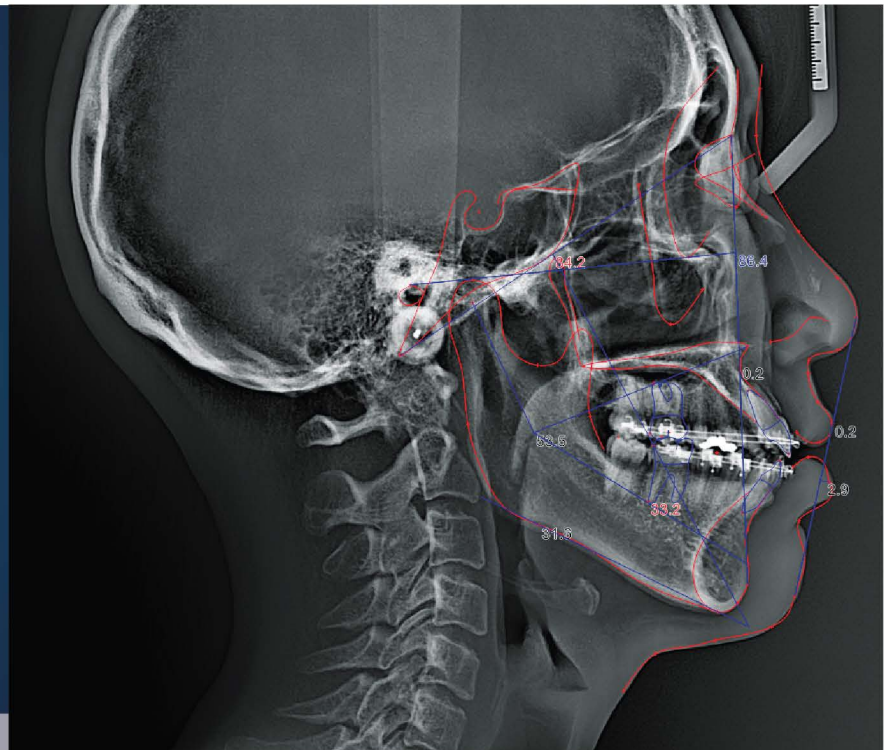

Extraoral bitewings

TMJ

Cephalometric X-ray

**We do the work,
so you can spend more
time with your patients**

Save your time with instant
Auto Landmark tracing
(Available with WillCeph, the cephalometric
analysis software)

Two Cephalometric Options

✓ **Scan Type**

Standard scanning type extension provides
excellent diagnostic images

• Available Models: Eco-X S, Dentri S Max
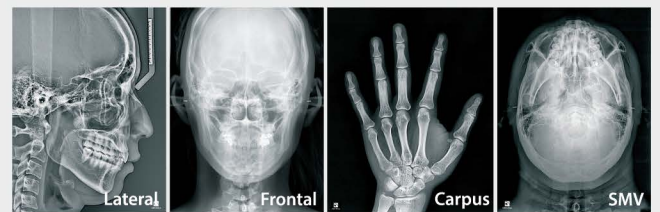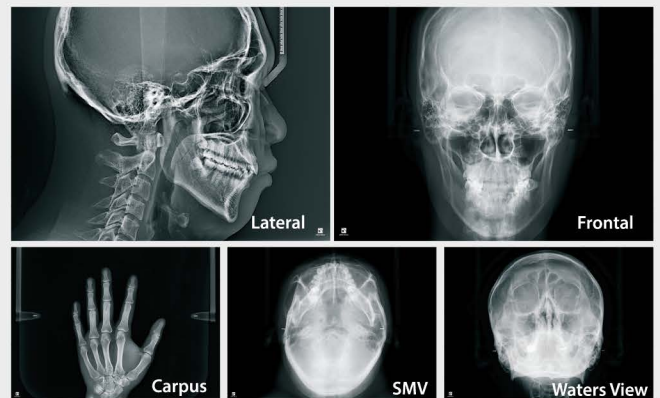• Scan time: 3.2s, 4s, 6s, 8s

✓ **One-shot Type**

Premier one-shot extension provides superior
image quality by reducing movement artifacts.

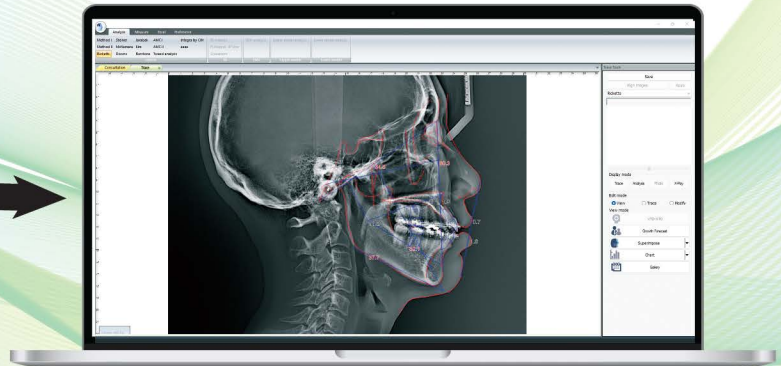• Available Models: Dentri C Max
• Scan time: 0.5s, 1s, 1.5s, 2s

Various Cephalometric Features

Lateral   Frontal   Carpus   SMV   Waters View

Lateral   Frontal   Carpus   SMV

Software

WillCeph

2D cephalometric analysis software

Auto landmark Tracing

Spend more time with your patients, and less time landmark tracing with WillCeph's Auto tracing feature

Analysis (Auto Calculating)

Automatic cephalometric analysis calculation based on traced landmarks. Full chart at a glance with analysis by various authors and personalized analysis.

Treatment Simulation

Facial change prediction for your patient consultation. Compare the before/after treatment visually through photos and videos.

Report Feature

Customizable gallery layout so you can report on what is important in your practice. Some features include superimposition to evaluate growth changes and growth forecast predictions.

Analysis Personalization

fully customizable ceph analysis

Powerful Overlay Feature

Evaluate facial structures and major landmarks by overlapping your patient's photo.
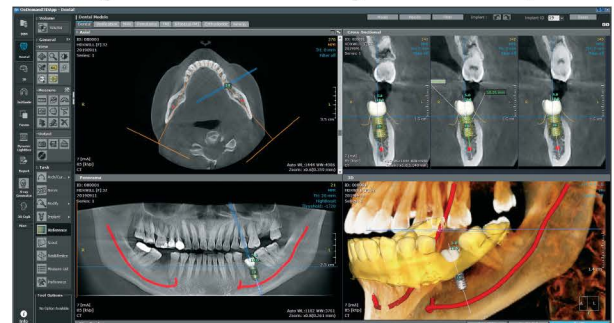
Will-Master

Patient image management software and 2D Viewer

Will-Master allows you to import and export images from your own practice. WILL-PLAY, built-in media library stores informative videos about most common dental treatment options, helping the patient visualize the procedure.

OnDemand3D

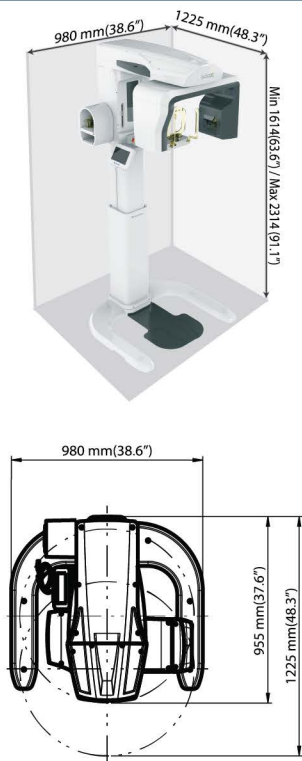**3D navigation software for digital treatment planning**

OnDemand3D's robust features include digital implant planning, airway analysis, 3D cephalometric analysis (with Dentri Max purchase), amongst other clinical applications in digital dentistry.
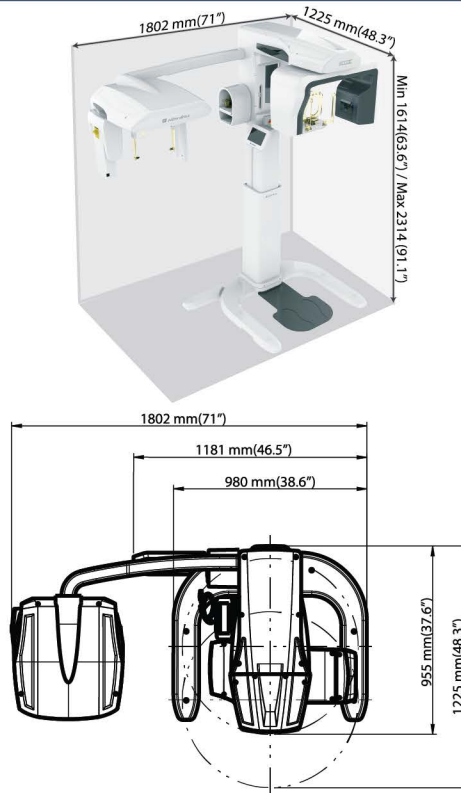
ECOOC Specification

Eco-X
CBCT/PANO/Model Scan
System Weight (Tolerance: 10 %): 178 kg/ 392 lbs

Eco-X S
CBCT/PANO/CEPH/Model Scan
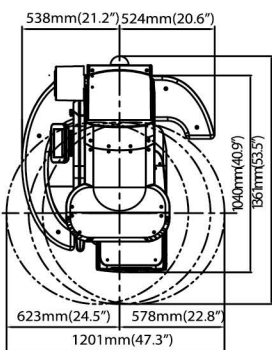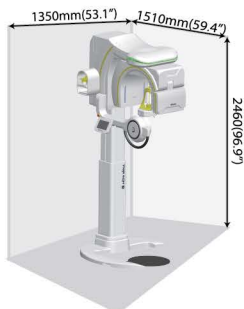System Weight (Tolerance: 10 %): 211 kg/ 465 lbs

Mode			Time
Scan Time(Adult)	CBCT		8 s or 12 s, 24 s
	PANO	Full Arch	7 s, 14 s
		Bitewings	3.2 s ~ 8 s
		TMJ	1.7 s ~ 6 s
	CEPH	Lateral Large Area / Frontal(PA) / Carpus / Waters / SMV	4 s, 8 s
		Lateral Small Area	3.2 s, 6 s
	Model Scan		24 s

| Specification	
Field of View (CT) (cm × cm) (Diam. × Height)	16 × 9 or 12 x 9(Adult) 10 × 8 (Child) Free FOV (Min. 3 x 3)
Voxel Size	0.10, 0.15, 0.20, 0.25, 0.30
Focal Spot (mm)	0.5
Reconstruction Time	min. 10 s (standard recon, MAR off)
Gray Scale	CT & Panorama : 16 bits
	Scan- type Cephalo : 14 bits
Tube Voltage	60 kV to 90 kV
Tube Current	4 mA to 10 mA
Patient Position	Standing (Wheelchair accessible)
Patient Alignment	Column: Electric motion Temple Support: Motion
Detector Type	CT & Panorama : TFT: a-Si
	Scan Type Cephalo : CMOS

DENTRImax Specification

Dentri Max
CBCT/PANO/Model Scan
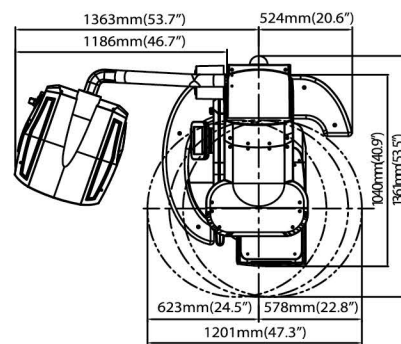System Weight (Tolerance: 10 %): 243 kg / 536 lb

Dentri C Max
CBCT/PANO/ONE-SHOT CEPH/Model Scan
System Weight (Tolerance: 10 %): 270 kg / 595 lb
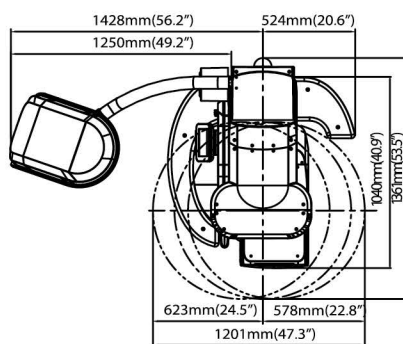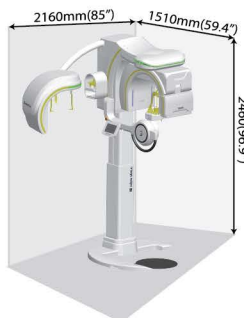
Dentri S Max
CBCT/PANO/SCAN CEPH/Model Scan
System Weight (Tolerance: 10 %): 260 kg / 573 lb

Mode			Time
Scan Time(Adult)	CBCT	FOV 16x9 cm	8 s or 12 s, 24 s
		FOV 18x16.5 cm	16 s or 24 s, 36 s
	PANO	Full Arch	7 s, 14 s
		Bitewings	3 s ~ 8 s
		TMJ	1.6 s ~ 6 s
		Sinus	5.2 s, 10.2 s
	CEPH(Scan)	Lateral Large Area / Frontal(PA) / Carpus / Waters / SMV	4 s, 8 s
		Lateral Small Area	3 s, 6 s
	Ceph(One-Shot)	One Shot	0.5 s, 1 s, 1.5 s, 2 s
	Model Scan		24 s

Specification		
Field of View (CT) (cm × cm) (Diam. × Height)		18 × 16.5(Adult, Stitch), 16 x 9(Child, Non-Stitch) 10 x 14.5(Child, Stitch), 10 x 8(Child, Non-Stitch) Free FOV (min. 3 × 3)
Voxel Size		0.10, 0.15, 0.20, 0.25, 0.30
Focal Spot (mm)		0.5
Reconstruction Time		min. 10 s (standard recon, MAR off)
Gray Scale	CT & Panorama	16 bits
	Scan & One-Shot type Cephalo	14 bits
Tube Voltage		60 kV to 90 kV
Tube Current		4 mA to 10 mA
Patient Position		Standing (Wheelchair accessible)
Patient Alignment		Vertical Column: Electric motion Column: Electric motion Temple Support: Motion
Detector Type	CT & Panorama	TFT: a-Si
	Scan Type Cephalo	CMOS
	One-Shot Type Cephalo	TFT: a-Se