



Master Series

The New Revolution for Oral & Maxillofacial Specialists



Flexible FOV



Low Radiation Dosage



Wheel Chair Accessible



Adjustable Voxel sizes
(0.164~0.4mm)



Integrated PACS &
DICOM Printer



Master Series

The New Revolution for Oral & Maxillofacial Specialists

(Flexibility! Efficiency! Reliability!)

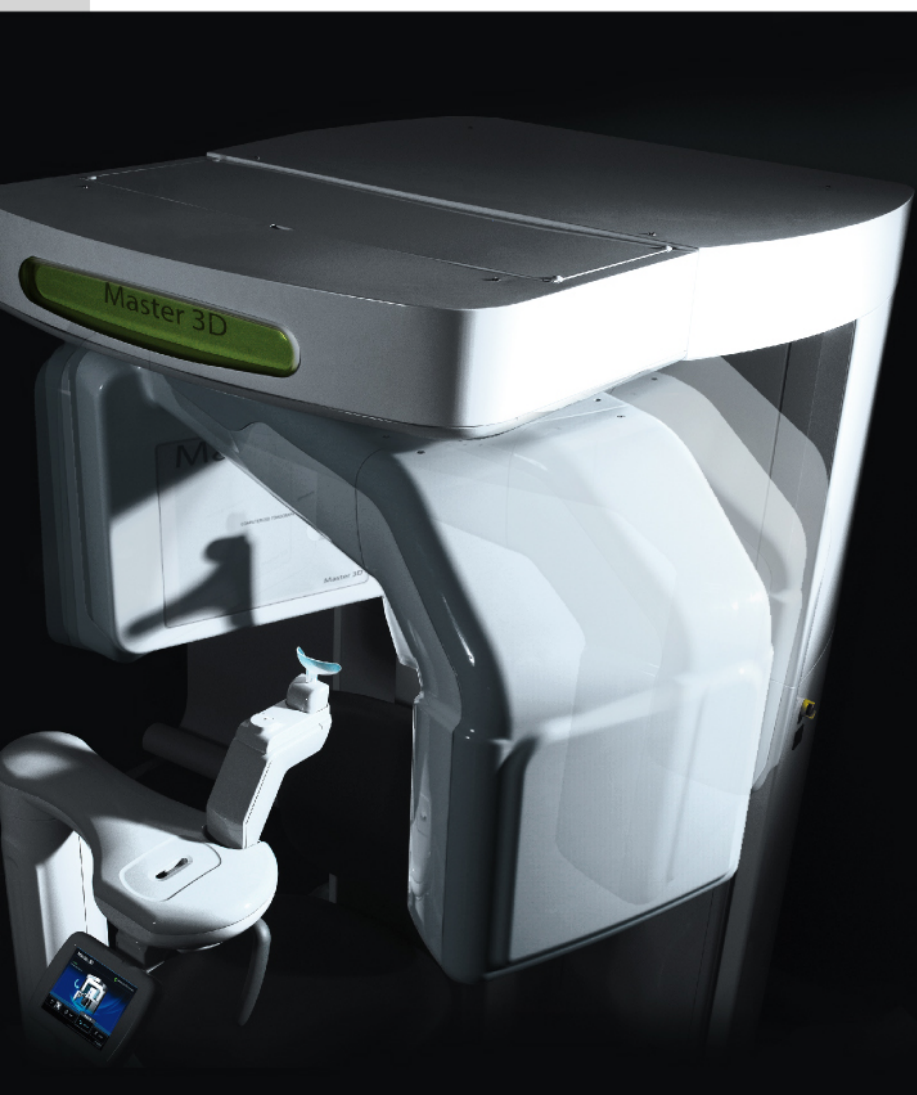
Master 3DS

The New Revolution in Digital Radiographic 3D Imaging: Master Series

- With the most Flexible FOV (20X19/20X15/16X10/16X7) as well as the largest FOV size.
- Adjustable voxel sizes: 0.2/0.3/0.4mm (0.164mm also available)
- Reasonable radiation dosage based on FOV flexibility
- Short reconstruction time with GPU solution
- Convenient & Modern design
- With the most advanced softwares:
 - "EzImplant", a specialized 3D image viewer
 - "EasyDent", a patient management software with panoramic and cephalometric image viewer
 - "EzGate", a DICOM file interface program with PACS



Master



Naturally sliding handframe



Easily adjustable LCD panel



Adjustable chair and chinrest

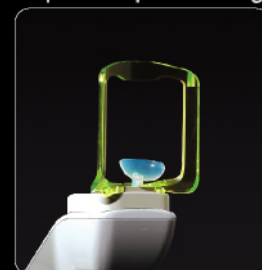
3 laser beams for ease in patient positioning

The Master Series provides 3 laser beams. The Horizontal, Vertical and Canine beams make it easy to properly position a patient, ensuring genuinely clear images.

Series



Automatic chinrest & headrest for precise positioning



Wheelchair accessible



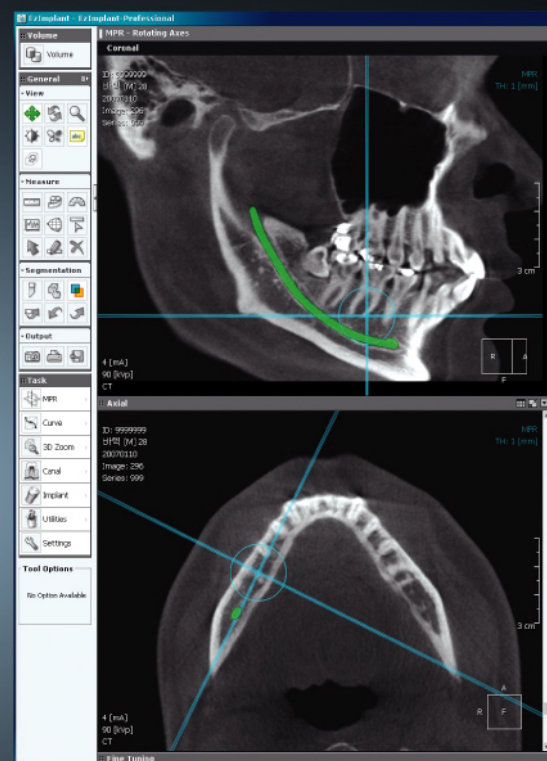
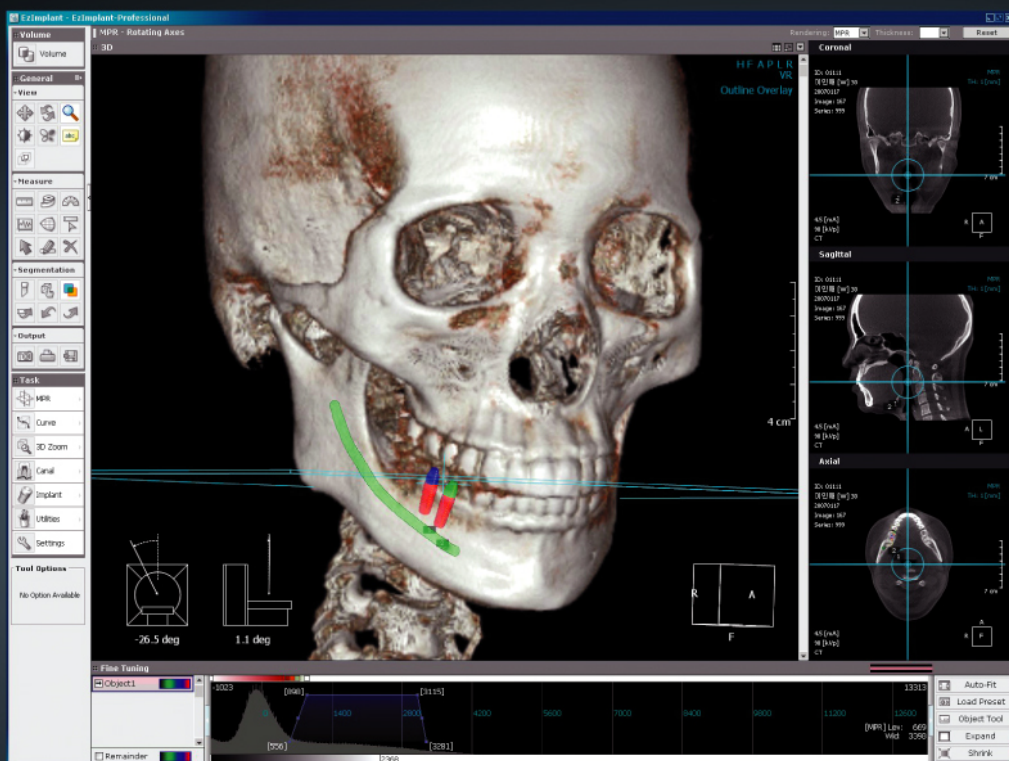
Adjustable column height with ruler



(Ruler on the column for easy adjustment of column height

Master 3DS offers the convenience of simply pressing a switch to adjust easily the height of the column .

Master Series



The images shown above are of FOV 20X19

It captures a 3D view of the entire oral and maxillofacial anatomy. By utilizing the canal drawing & coloring functions, as well as implant placement simulation using the EzImplant software, you can make precise treatment plans.



Master Series Key features

Master Series is:

- An ideal for oral & maxillofacial surgeons, orthodontists, implantologists, and ENT physicians
- Specially designed for imaging centers and public hospitals

Enhanced functions

- Lowered radiation dosage based on FOV flexibility
- FOV sizes which ranges from 16X7 to 20X19
- With the largest FOV (20X19cm), especially useful for maxillofacial assessments
- Adjustable voxel sizes (0.2 / 0.3 / 0.4mm)
- Short reconstruction time (range:9sec-51sec)

Software:

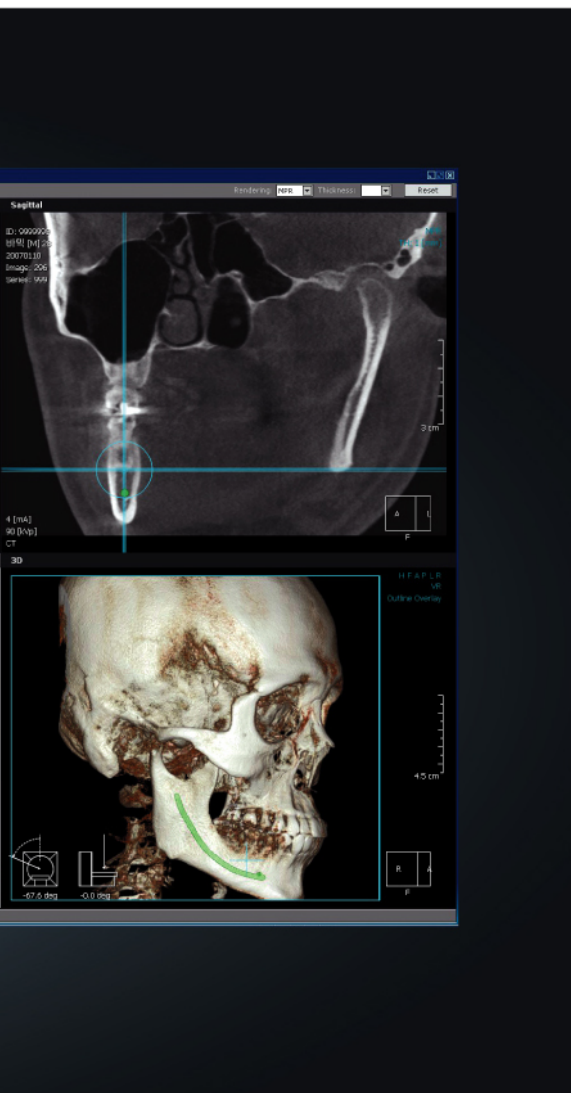
- EzImplant, a very dynamic & efficient proprietary 3D imaging software
- EasyDent, for patient management with panoramic and cephalometric image viewer
- Direct DICOM printer module (1:1 print scale)
- PACS Interface (gateway S/W)
- CD Publishing, for a full view of 3D images and a diagnostic tool for doctors' referrals.
- DICOM format software, for easy integrations with most third party softwares.
- EzReport, for an effective reporting of clinical cases/diagnoses

Design

- Accommodates various positions; standing, seated and wheelchair-confined patients

Specifications

Specification	Master 3D		Master 3DS	
Field Of View(cm)	20X15(S)	20X19(S)	20X15(S)	20X19(S)
	16X10(I)	16X10(I)	16X10(I)	16X10(I)
	16X7(D)	16X7(D)	16X7(D)	16X7(D)
Detector	Flat Panel Detector		Flat Panel Detector	
Grayscale Resolution(bit)	14bit		14bit	
Focal Spot	0.5mm		0.5mm	
Scan Time	Normal 15sec		Normal 15sec	
	High 24sec		High 24sec	
Reconstruction Time	9~51sec		9~51sec	
Voxel Sizes(mm)	0.2 / 0.3 / 0.4mm (0.164mm also available)			
Rotation	360°		360°	
Patient Positions	Seated		Standing, Seated(w/optional chair), Wheelchair Accessible	
Anode Current	2mA~10mA		2mA~10mA	
Anode Voltage	40kVp~90kVp		40kVp~90kVp	
Size(D×W×H)	1300mmX1460mmX1922mm		1020mmX1243mmX2288mm(MAX)	



Revolutionary CT Upgrades

- Master Series: For the Oral & Maxillofacial Specialists
- Flexibility! Efficiency! Reliability!



Flexible FOV Size &
Lower Radiation Dosage



Dynamic & Efficient 3D image
Software



Flexible FOV Size & Lower Radiation Dosage

The FOV selection provision enables the user to select the optimum FOV mode and thus limits the radiation dosage to only the necessary level for examination, contained to the region of interest. The **FOV 'S' mode (20×19, 20×15)** captures a 3D view of the entire oral and maxillofacial anatomy including the TMJ, sinus and airways on a single 360° scan. The **FOV 'I' mode (16×10)** makes it possible to select Arch or TMJ mode; Through those images you can check the full Jaw, TMJ and

Occlusion simultaneously. The **FOV 'D' mode (16×7)** captures all the positions which are Maxillary, Mandible, Occlusion and TMJ.

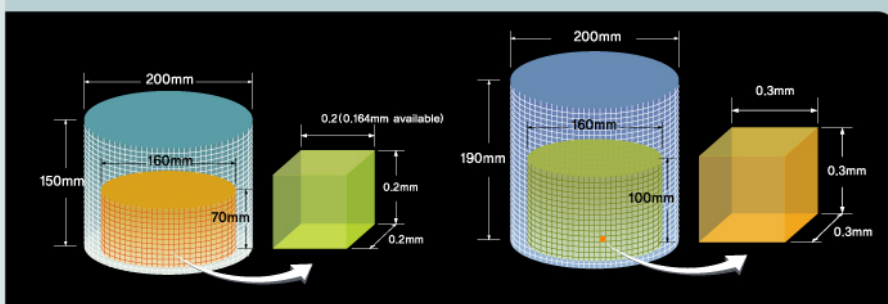
It also provides detailed views of implants and impacted teeth-an effective tool for ENT diagnostic assessments. Additionally, all three FOV sizes provide lower x-ray dosage eliminating concerns over liability for taking diagnostic images of areas other than the required region of interest.

Dynamic & Efficient 3D image Software

EzImplant, the dynamic & efficient 3D image solution, offers comprehensive information for precise assessments, diagnoses, & treatment plans by utilizing the auxiliary functions such as measuring, canal coloring, cross-sectional viewing, and implant simulation. Direct DICOM printer module (1:1 print scale) and CD publishing of 3D images increase practice efficiency for both referred and referring doctors of a CT scan patient. Additionally, EzImplant integrates with PACS system through DICOM 3 file format which is compatible with most third party softwares.

Selectable Voxel Sizes

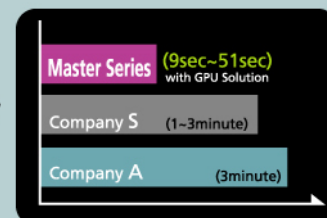
The Master Series provides a selection of voxel sizes, which improves the overall image resolution. The smallest voxel size (0.164mm) still offers the highest quality genuine image while normal voxel sizes (0.3, 0.4mm) are suitable for diagnostic images and require shorter reconstruction time and smaller file size.



Selectable Voxel Sizes

Short Reconstruction Time

With the Master Series GPU solution, reconstruction time for 3D images is shorter than ever. The new reconstruction time of the improved Master Series ranges from approximately 9 to 51 seconds, thereby improving the entire CT scan time management and elevating its utilization rate by shortening the waiting time which, in turn, creates more customer satisfaction.



Master Series (9sec ~ 51sec)

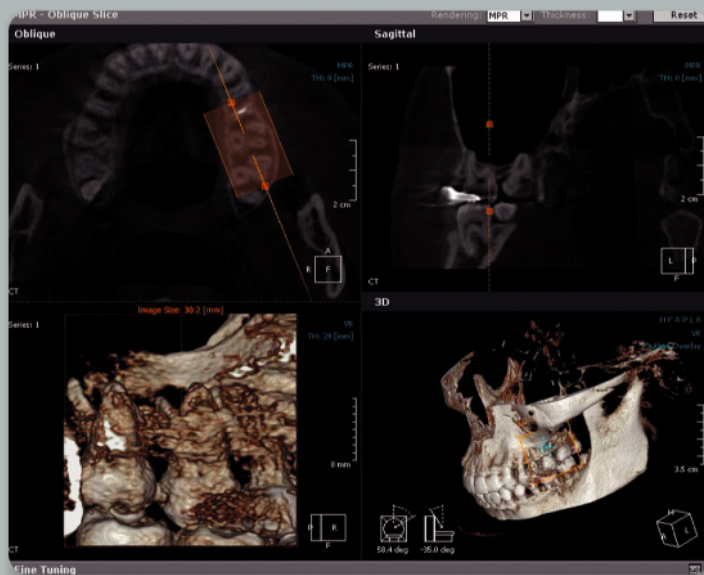
Flexible Position

The equipments in the latest Master Series is were designed with the patients' convenience in mind. With Master 3DS, there are 3 types of patient positioning- standing, seated (optional chair) and wheelchair-confined patient accessibility.

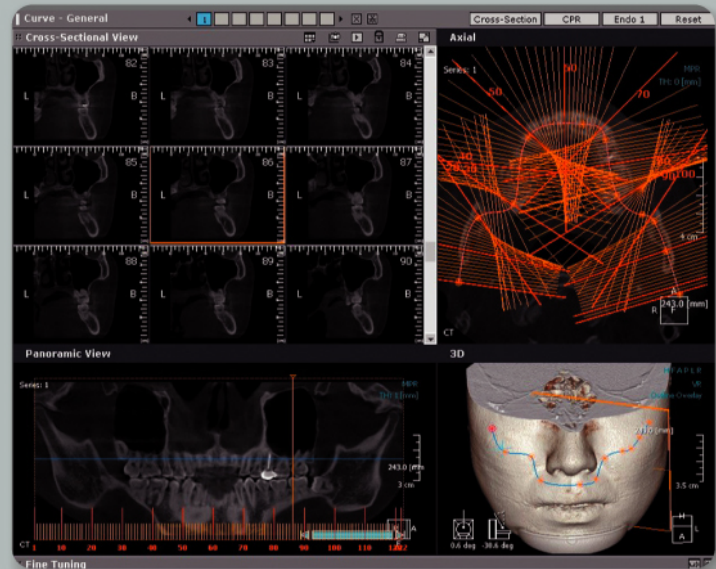


Flexible Position

3D Dental imaging of



FOV 16X7

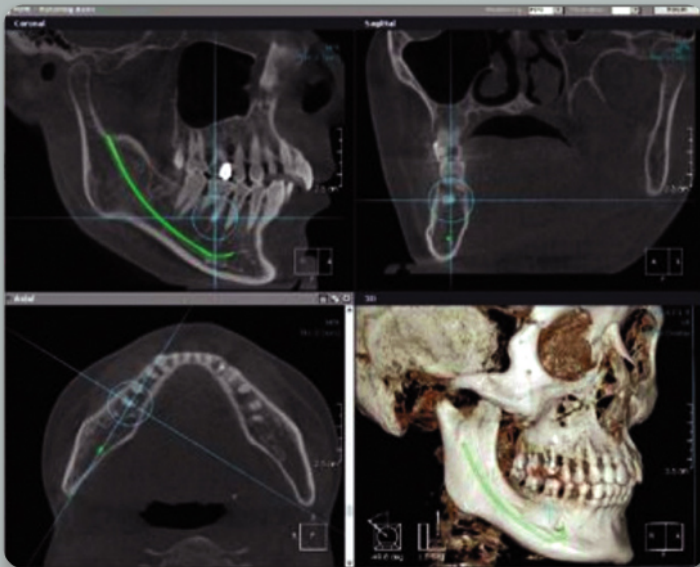


FOV 16X10

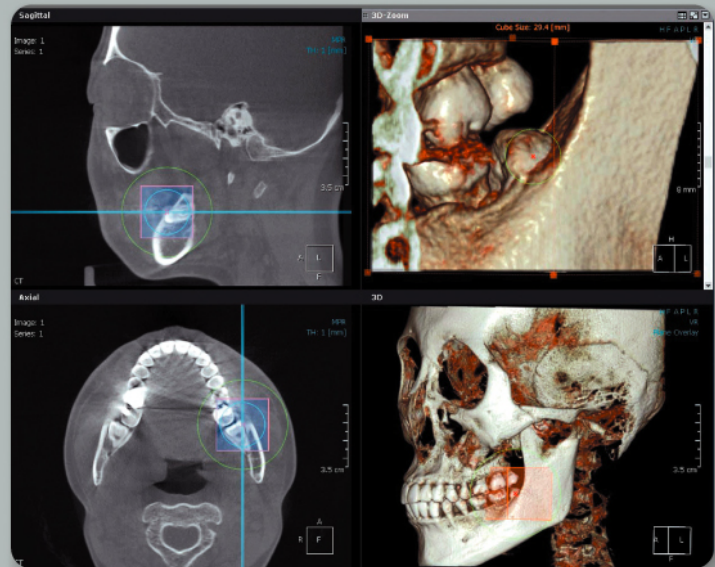
The image shown above is Maxillary image in FOV 16X7. In the Master Series, the area of a captured image is flexible, which enables you to select various modes such as Maxillary, Occlusion, Mandible, and TMJ. By utilizing the oblique slice function of EzImplant, you can enjoy assessing any specific area with the 360° rotation function.

The image shown above is FOV 16X10 image. It was taken using Arch & TMJ modes in FOV 16X10. This modes also provide you with information about the sinus, TMJ, full Jaw & Occlusion. Through the cross-sectional views, panoramic view and sliced images of any specific area, you are provided with all the details needed for accurate and informed assessments.

Master Series



FOV 20X15

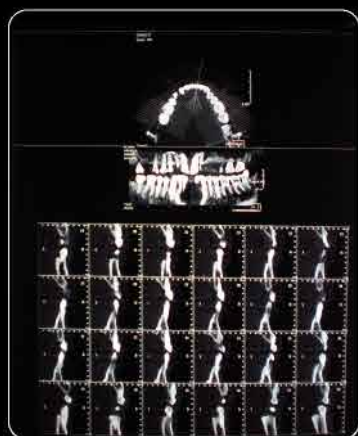
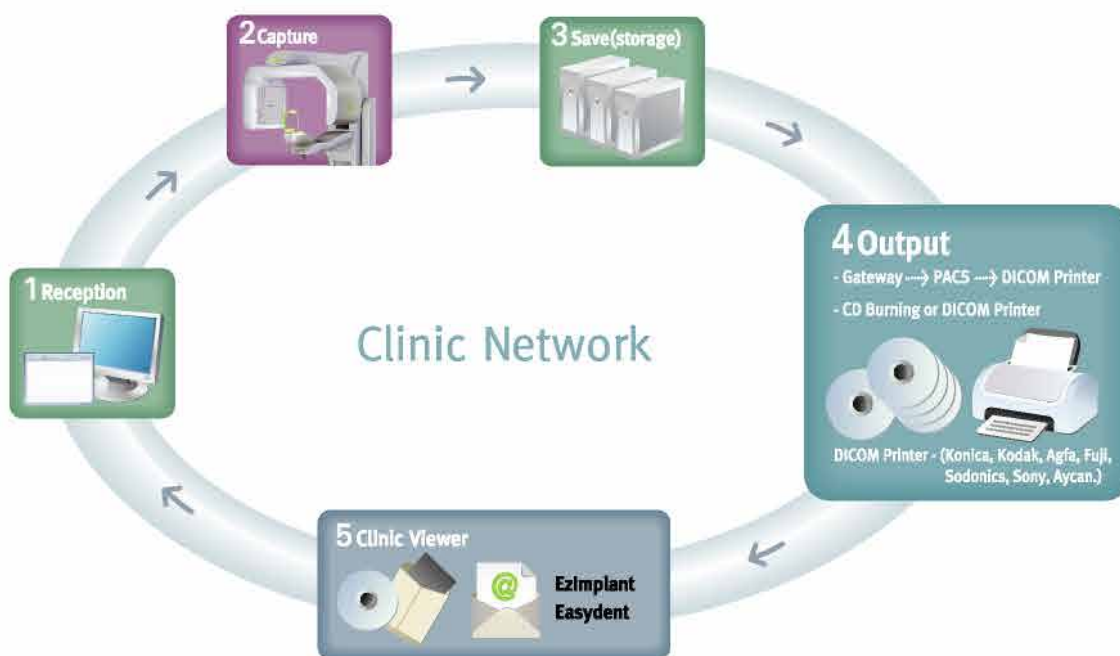


FOV 20X19

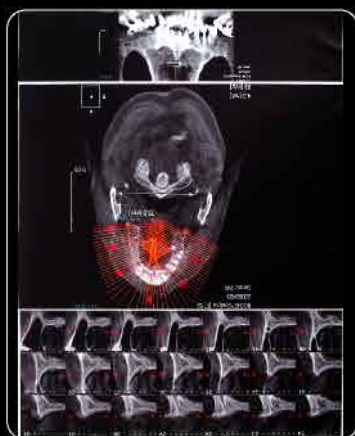
The image shown above is FOV 20X15 image. This FOV provides information for a full skull image assessment. It enables you to make accurate treatment simulation plans through the canal drawing & coloring functions of EzImplant.

The image shown above is FOV 20X19 image. This FOV provides information on the entire maxillofacial anatomy. Through the 3D zoom function of EzImplant, you can obtain exact information of any specific area of a 3D image.

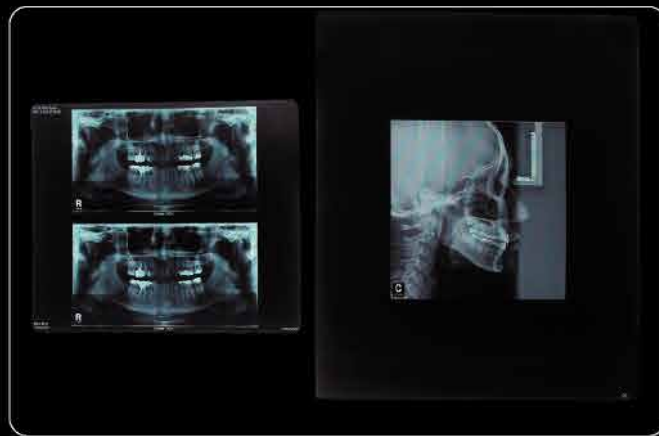
Imaging process of Master Series for Radiology Centers



**EzImplant DICOM
1:1 Printing**



**EzImplant Image S/W
EzReport Function**



EasyDent 1:1 Scale DICOM Printing

Master Series

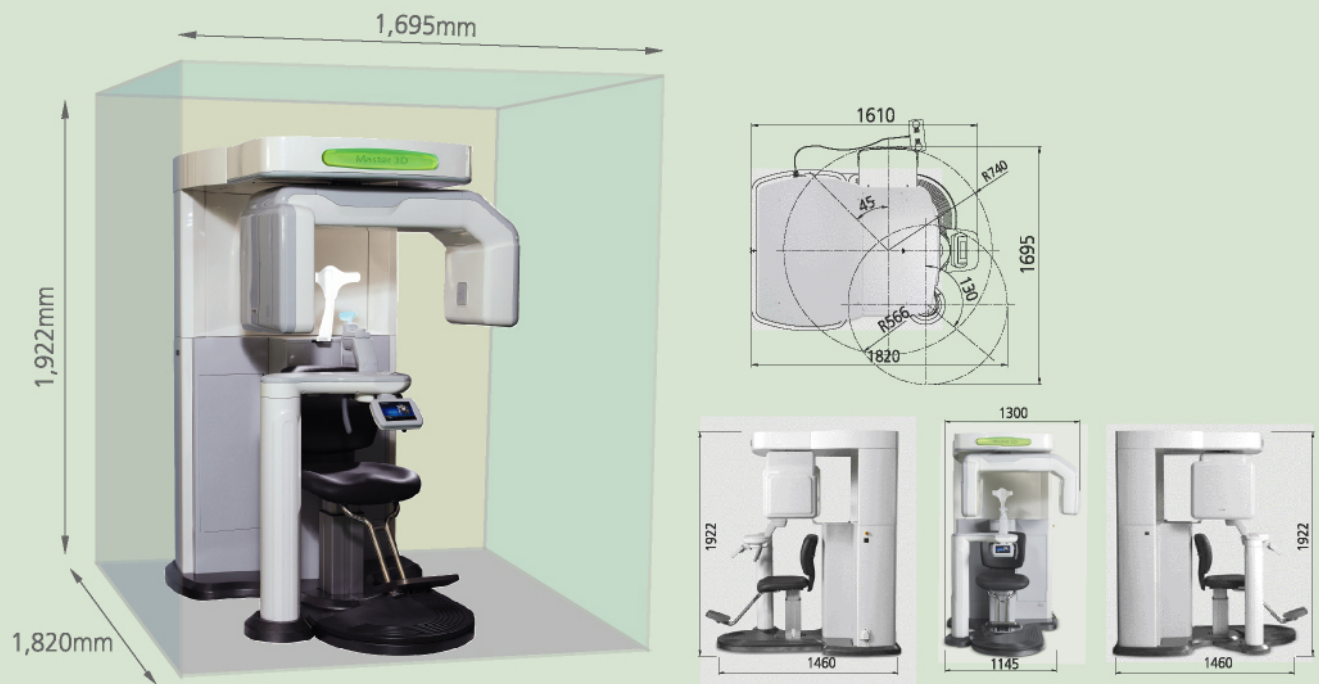


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Dimension

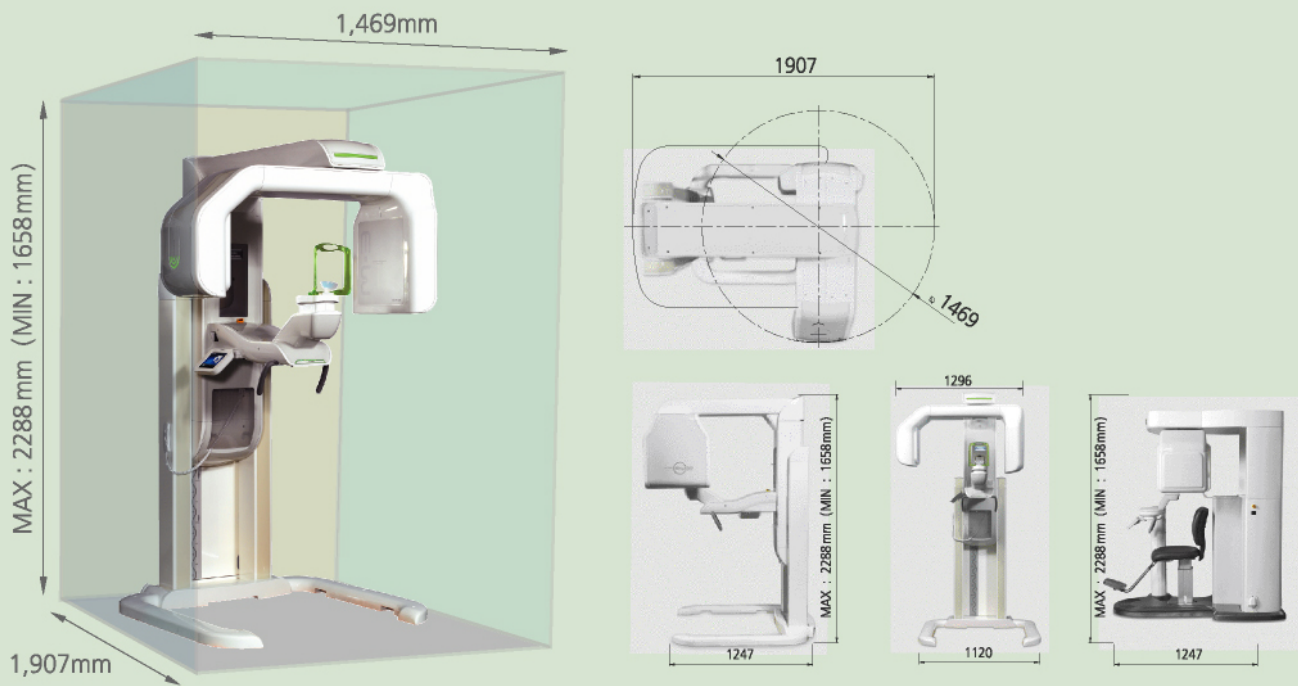
Master



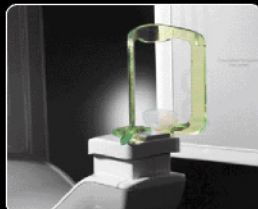
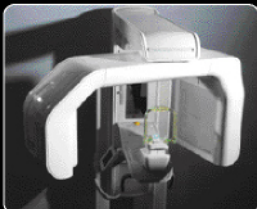
Master 3D



Series

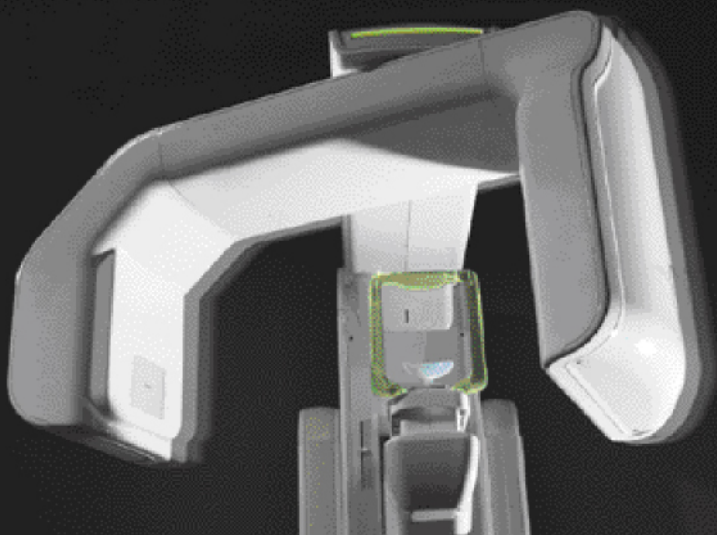


Master 3DS



Master Series

Flexibility! Efficiency! Reliability!



Caring Insight
VATECH

BRANCHES-14 Offices in 9 countries



EzImplant
EasyDent V4

