

# AUGE SOLIO

CBCT+Pan+Ceph



## A smooth-running, secure positioning system eases communication

AUGE SOLIO drastically simplifies the positioning procedure through the incorporation of reliable functions. Smoothly running position setting during the initial stages of diagnosis helps ease communication between the operator and the patient, in-turn contributing to establishment of a good relationship if further therapy is needed.

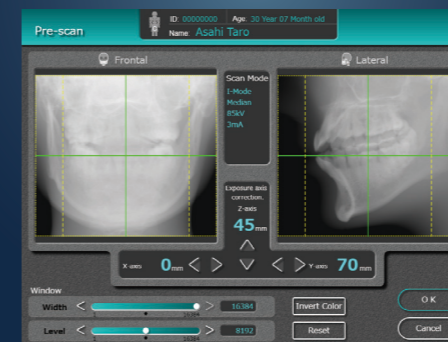
### CT scan head positioning system includes a vertical adjustment

After positioning, the CT scan head can be vertically adjusted in a single operation. Patients need not be moved during this action, which is comfortable both for patients and operators.



### Preliminary imaging for correct CT area

A preliminary imaging function enables position adjustment of the CT capture area forwards, backwards, right, left, up and down. This greatly assists obtaining an accurate and secure position setting. After setting, the CT mechanism automatically moves to the adjusted position, realizing image acquisition of target area. This prevents errors due to incorrect image position, and requires no further CT operation.

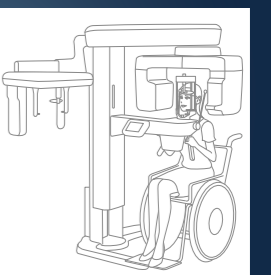
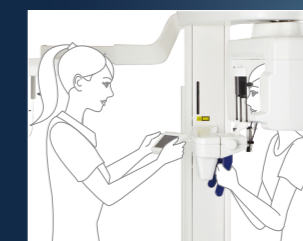


### Versatile touch panel with flexible positioning

The operation panel uses simple touch operation and provides a comprehensive graphic display, integrating functions of CT capture area, positioning, and beam operation.



### Two-way positioning for reliable therapy & Universal design that caters for sitting positions and wheelchairs



## Everything you need in a single system.

Advanced technology has provided solutions to all of the challenges of a diagnostic system — image quality, operability, and user-friendliness.

Clear high-precision image quality, excellent operability and operational ease via the 5.7-inch touch panel provide powerful diagnostic capabilities.

AUGE SOLIO is a next-generation system competently executed, using unique advanced technology to respond to the extensive requirements of diagnostic imaging in dental therapy.

This system has a wide CT image capture area and an accurate, user-friendly positioning system, which together make a sophisticated diagnostic package.

"Made in Kyoto". We take great pride in our craftsmanship and traditions which have continued for more than sixty years.



# High-precision imaging as a powerful diagnostic tool

Not just for clear images, but high-precision images that serve as effective diagnostic aids for each individual case.

As a leader in imaging, We have moved forward with AUGESOLIO by integrating numerous advanced technologies to improve image quality in addition to the established conventional methods.

## NEOSMART (High-precision image reconstruction)

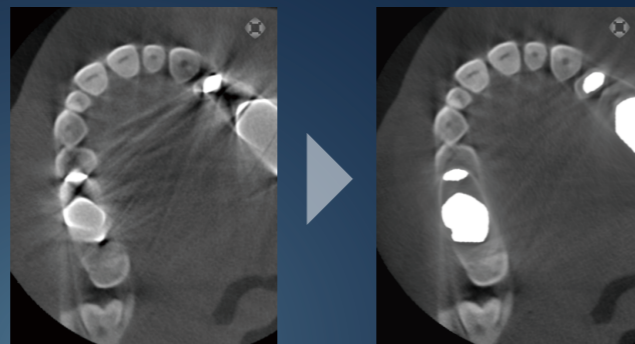
After CT imaging, various image reconstruction operations are available that can be performed easily.

\*This function is available only in NEOPREMIUM2.

### ● Minimized metal image artifacts

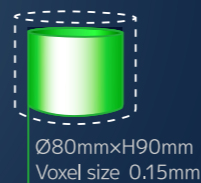
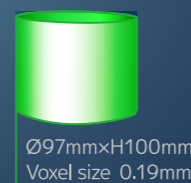
Our unique MAR algorithm minimizes image artifacts due to metal implants.

An image with minimized artifacts due to the presence of metal can be obtained by combining with 360° image acquisition.



### ● High-precision image reconstruction

By reducing the FOV an even higher image precision is possible as the voxel size is reduced. No rescanning is required because the reconstruction uses the existing image data. After CT imaging, various image reconstruction operations are easily accessible.



### ● Sharp

Sharpens the image.

### ● Smooth

Smooths the image and helps resolve fine detail.

### ● Scattered ray correction

Stabilizes the luminance value of dental hard tissue.

### ● Beam hardening correction

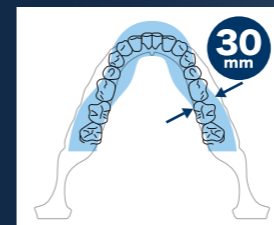
Minimizes image artifacts that occur between implant fixtures.

\*Available functions are limited depending on the selected mode.

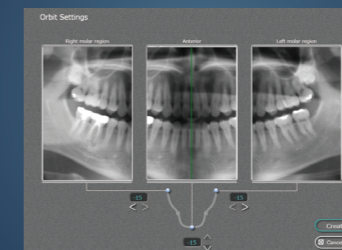
## Tomosynthesis

Acquisition of Panoramic images in Tomosynthesis mode provides image data with a slice depth of 30mm. It is now possible to clearly see the blurring of the anterior teeth image area even in positioning failure.

\*For children, the acquisition area of panoramic image data is different.  
\*This function is available only in NEOPREMIUM2.

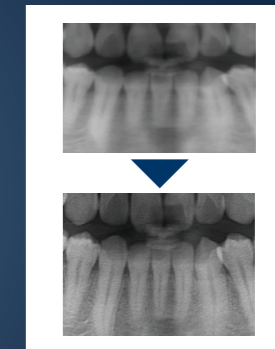


Automatic display can be performed with optimal slice positioning for the anterior teeth, from a region with a slice depth of 30 mm.



It is further possible to select an image from each of the anterior teeth and the left and right molars to obtain a set of images best matching the shape of the patient's dentition.

\*Once a custom path has been saved, you cannot retrieve the default selection.



Clearer images can be displayed using data from 31 images spaced at 1 mm intervals.

## Improved quality of Panoramic /Cephalometric imaging

Our unique image processing technology has attained a higher level of image quality through frequency domain processing and elimination of image noise. Panoramic images minimize the coarse appearance of mandibular joints/ and posterior teeth (a typical characteristic of photographic film images), assisting the diagnosis of caries or inflammation, cephalometric images are optimum for orthodontics.



## Head Support System prevents motion artifacts

We have introduced a special head support to comfortably support and steady the patient's head. This stability has facilitated extraordinarily high-precision imaging with minimal artifacts caused by motion.



## Wide-arm design solving image distortion

Newly designed wide arm means the X-ray beam is virtually horizontal, enabling accurate imaging without distortion.



## 360 degrees of data acquisition for clearer images

A data acquisition method that scans through 360 degrees of rotation has been incorporated, to minimize image artifacts due to the presence of metal. The full 360 degrees of image data allows image artifacts to be minimized, so contributing to sharp, high-precision CT images.

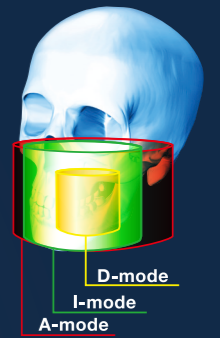
\*Note that certain patient positions dictate that 270 degrees is optimal.



# Lineup



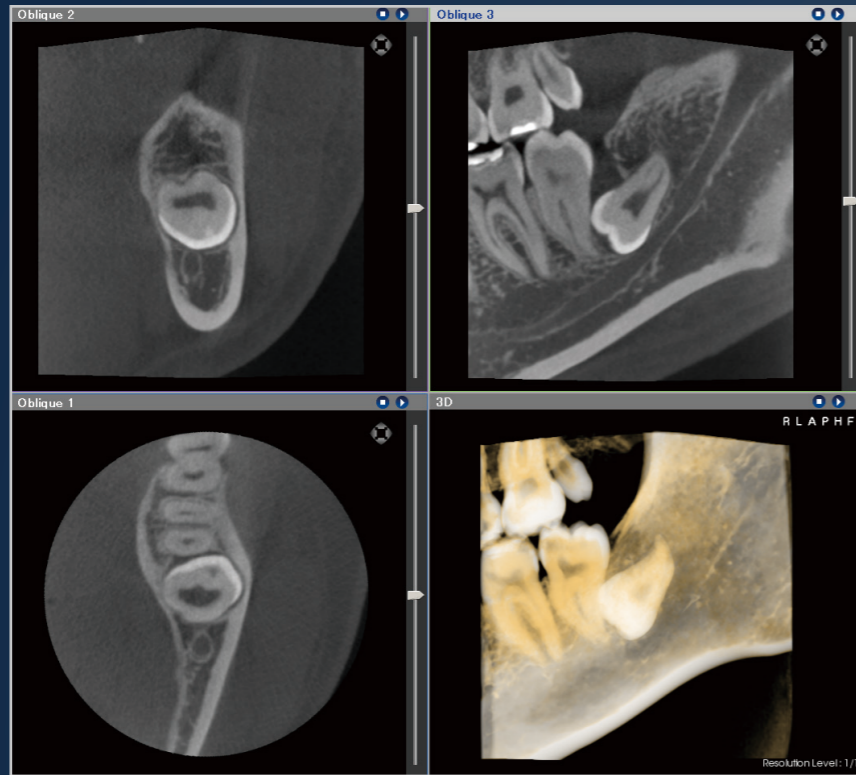
# 3D imaging



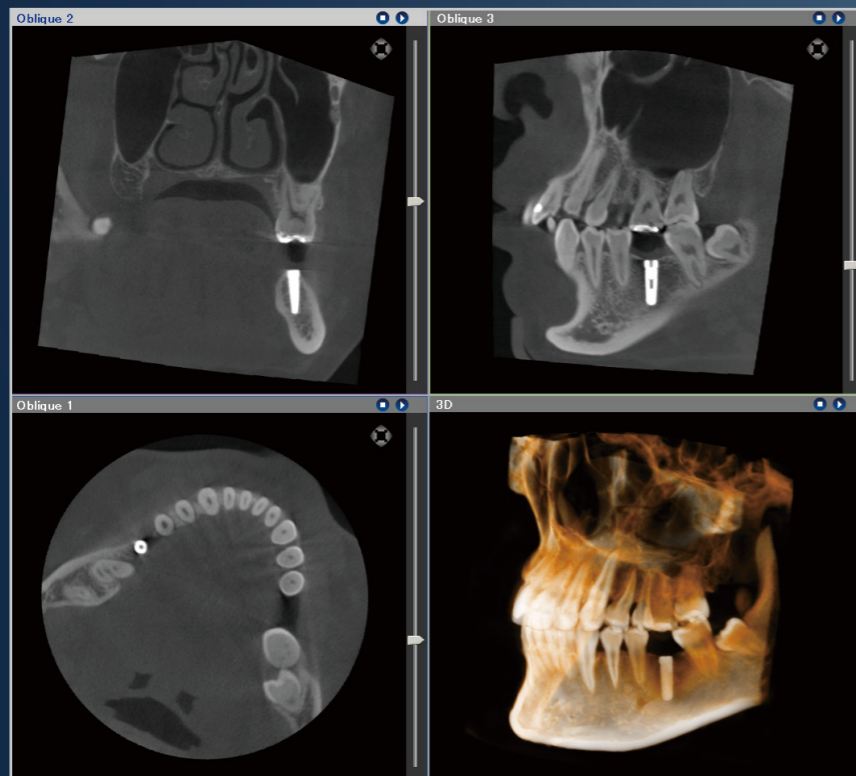
Mode	D	I	A
FOV	$\phi 51 \times 55 \text{ mm}$	$\phi 97 \times 100 \text{ mm}$	$\phi 161 \times 100 \text{ mm}$
Voxel size	0.1 mm	0.19 mm	0.315 mm
Exposure time	8.5sec/17sec		17sec
Exposure area	L8-R8 · L-TMJ R-TMJ	Dentition	Full jaw
Images			



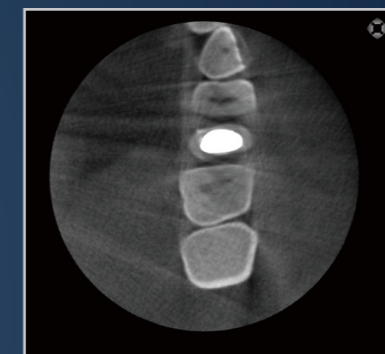
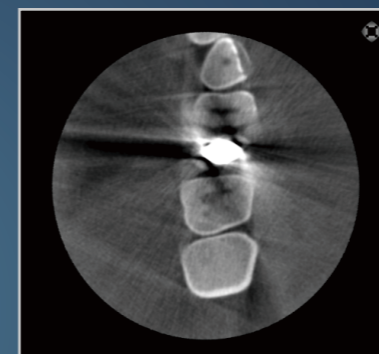
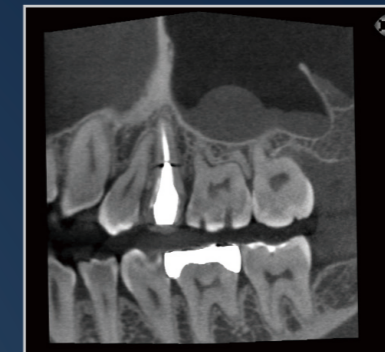
# 3D imaging



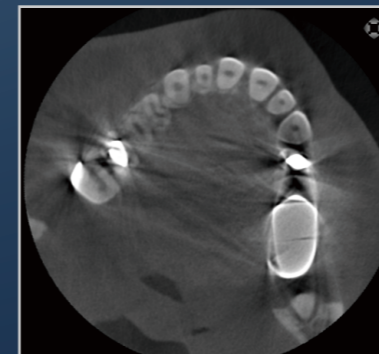
D-mode  $\phi 51 \times 55 \text{mm}$  Voxel size 0.1mm



I-mode  $\phi 97 \times 100 \text{mm}$  Voxel size 0.19mm  
High-precision image reconstruction.  
 $\phi 80 \times 90 \text{(H) mm}$ . Voxel size: display of reproduction available at approx 0.15 mm



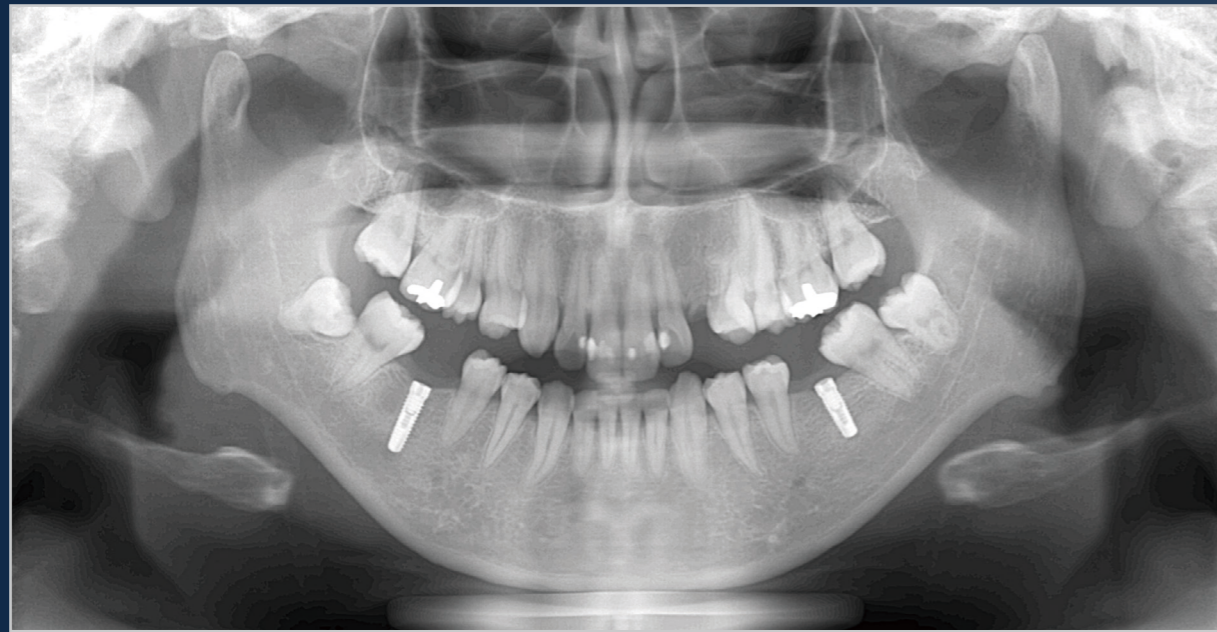
NEOSMART : Metal artifact reduction



NEOSMART : Metal artifact reduction



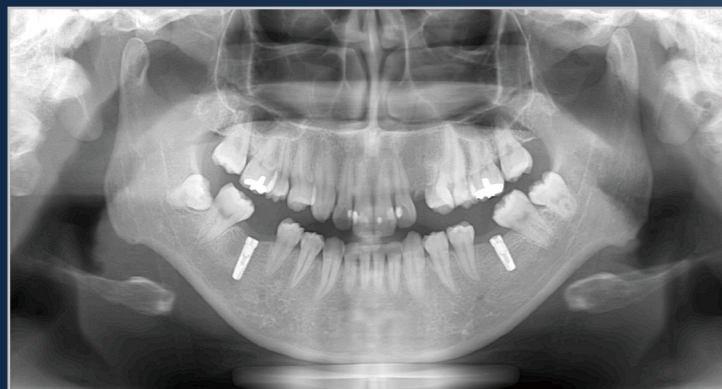
# 2D imaging



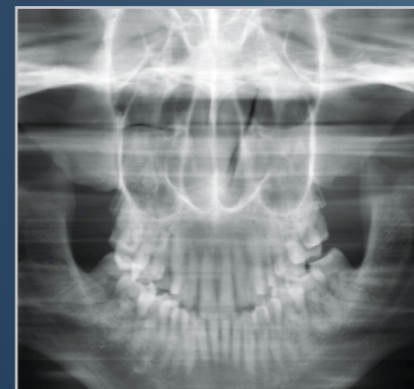
Panoramic (Normal) 12sec



Cephalometric (Lateral, Normal) 4sec



Panoramic (High speed) 9sec



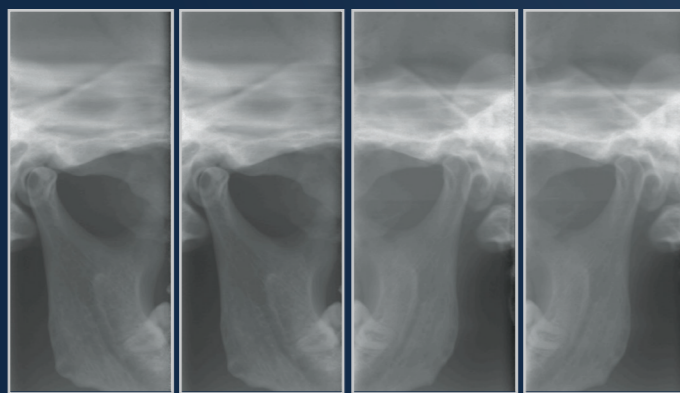
Maxillary Sinus 8sec



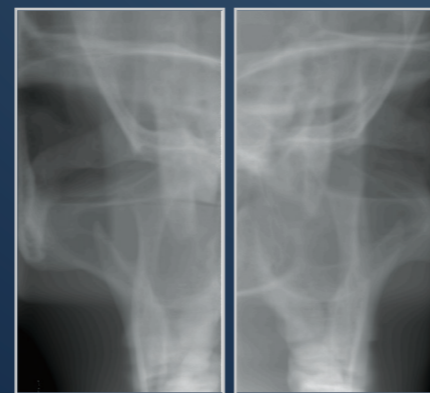
Cephalometric (PA) 4sec



Cephalometric (Lateral, Short time) 2.9sec



Lateral TMJ 3sec (×4times)



PA TMJ 3sec (×2times)



Bones of Carpus 4sec

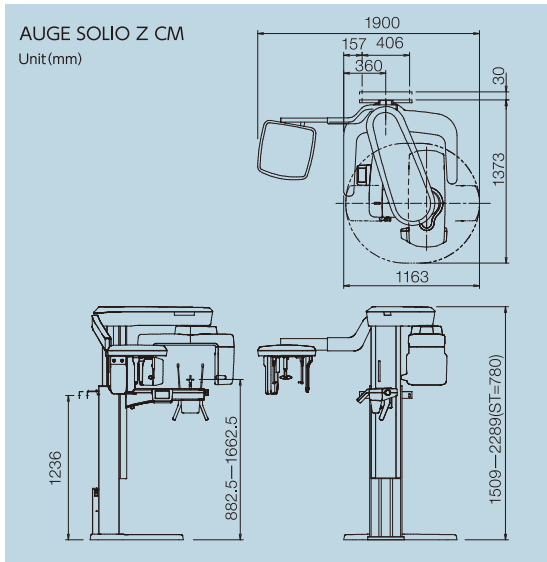
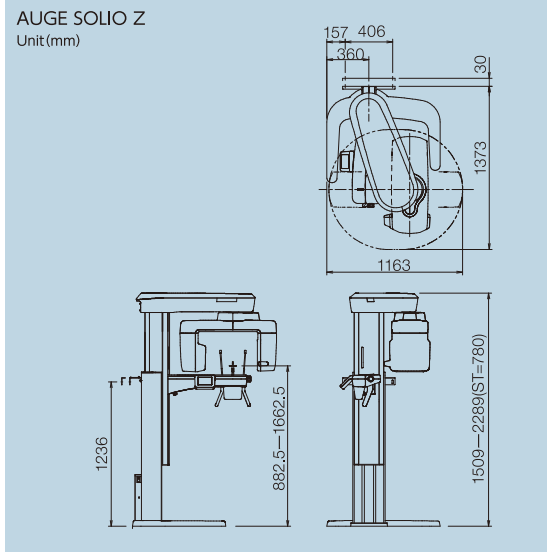


# Specifications

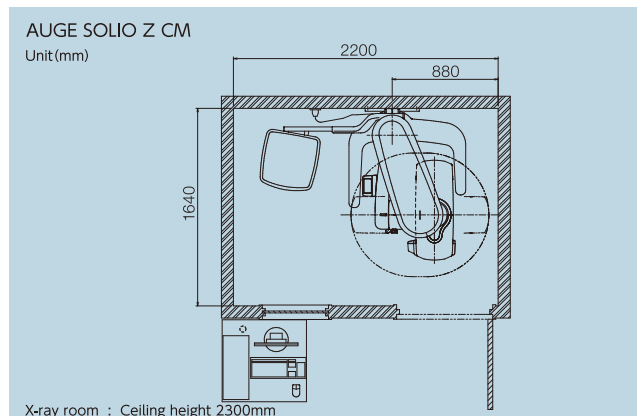
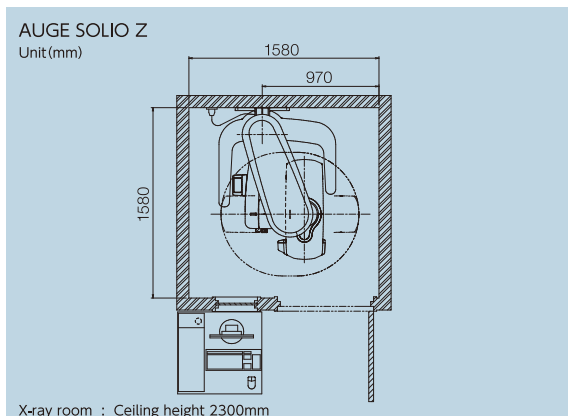
Product name		AUGE SOLIO Series	
Type		AUGE SOLIO Z	AUGE SOLIO Z CM
Rated voltage		100/110/220/230V 50/60 Hz 1φ	
Power requirement		2.0kVA	
High voltage generator		High Frequency Inverter Method	
Tube voltage		60-100kV*1	
Tube current		2-12mA(1mA Step)*1	
Focal spot		0.6mm	
Total filtration		2.5mmAl(min)	
Panoramic	Exposure area	Adult, Child, and Orthoradial Panoramic Radiograph	
	Exposure time(sec)	High speed 9 / Normal 12	
TMJ	Exposure area	PA-Lateral	
	Exposure time(sec)	3(×2times) / 3(×4times)	
Maxillary Sinus	Exposure time(sec)	8	
Cephalometric	corresponding Model	—	●
	Exposure area	—	Lateral PA
Bones of Carpus	Exposure time(sec)	—	●
	Exposure time(sec)	—	4
CT	D-mode	FOV	φ51×55(H)
		Exposure area	L8-R8 L-TMJ R-TMJ
	I-mode	Voxel size(mm)	0.1
		Exposure time(sec)	Short time (180°)8.5 / Normal (360°*2)17
A-mode	FOV	φ97×100(H)	
	Exposure area	Dentition L-TMJ R-TMJ	
	Voxel size(mm)	0.19	
	Exposure time(sec)	Short time (180°)8.5 / Normal (360°*2)17	
Positioning beam	FOV	φ161×100(H)	
	Exposure area	Full jaw	
Dimensions(mm)	(W)	1163	1900
	(D)	1373	1373
weight(kg)	(H)	2289	2289
		200	220

\*1 There is a limitation depending on each mode for the maximum rating.  
\*2 The rotation may be 270° depending on the patient positioning.

# Dimensions



# Footprint



\*Reinforcement of the floor or walls may be required.  
\*For optimum installation site, contact our sales representative.

ASAHIROENTGEN IND.CO.,LTD. <http://www.asahi-xray.co.jp/global/>

376-3, Tsukiyama-cho, Kuze, Minami-ku, Kyoto-shi, 601-8203, Japan  
TEL:81-75-921-4373 FAX:81-75-921-6675 E-mail:trading@asahi-xray.co.jp

※Specifications and appearance are subject to change without preliminary notice for further improvement.

[210121] [B01-C183E-Rev.1]