



Technology for Convenience make it easy, with Ray









Pulsed X-ray

Radiation dose is reduced through cycling off the generator during data transfer from the sensor. Operation of pulsed X-ray needs high frequency of generator. RAYSCAN α is designed to implement over 100 kHz for the operation of pulsed X-ray.

Intuitive interface

Simplified user interface provides an intuitive imaging workflow.

- Various scan mode with a simple selection on the main display

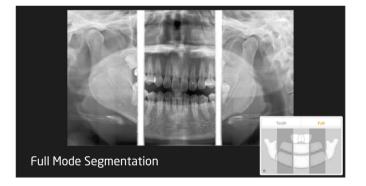
: Standard, Tooth/Full mode Segmentation, Bitewing, Orthogonal, Sinus, TMJ

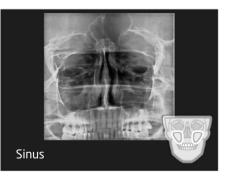
- Tooth mode has less dose compared to a full mode panoramic.

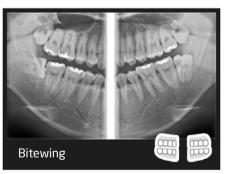
- Automatically selected dental arch and X-ray exposure condition according to patient's age

















Excellent image quality through advanced technology

AMF (Adaptive Moving Focus)

RAYSCAN α utilizes Adaptive Moving Focus Technology to configure the panoramic image layer and optimize the signal to noise ratio(SNR) to produce high quality images.





Denoising

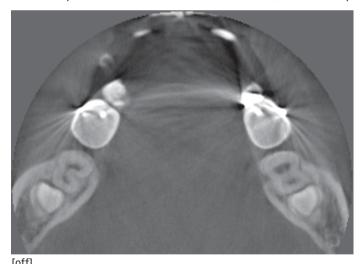
Proprietary noise reduction technology enhances image quality.

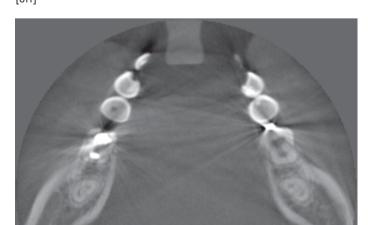


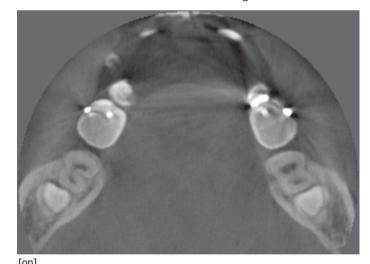


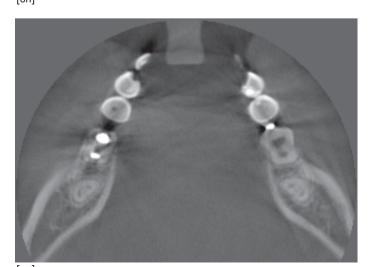
MAR (Metal Artifact Reduction)

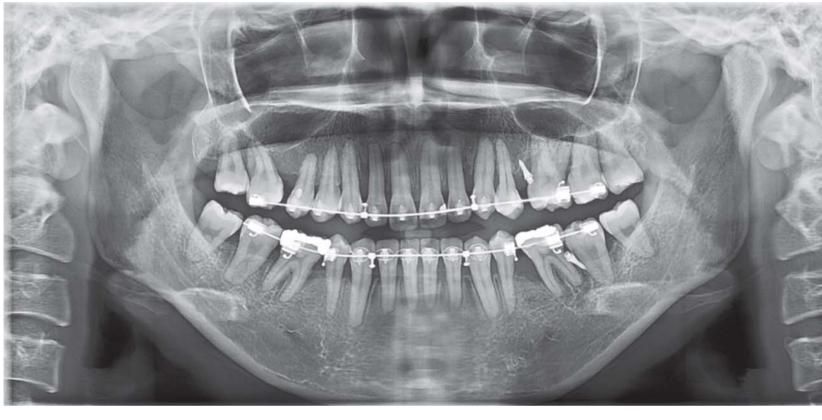
Our own CBCT reconstruction technology significantly reduces metal artifacts such as stars and shadows caused by X-ray scatter with no additional procedure and time. With the same time, RAYSCAN α provides more information around metal for accurate diagnosis.















2D Imaging Software

Key Features

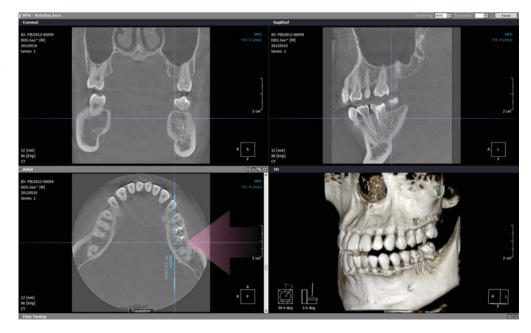
- Integrated dental image management
- Touch environment considered simple UI
- 16 bits full imaging system with DICOM 3.0
- Supports TWAIN-compliant input devices



3D Imaging Software

Key Features

- Panoramic image & Cross-Sectional image
- Excellent 3D image with shading technology
- Nerve canal drawing & implant simulation
- DICOM print & CD/DVD burning



Web Viewer - Optional

Key Features

- Convenient use in tablet & smart phone
- Optimal viewing experience by responsive web design
- No need to install software



Please note that as a generic viewing application RAYSCAN web is not suited for diagnostic purposes. However it is an excellent tool for communication a diagnosis made at SMARTDent for desktop.

ATCT (Adaptive Tube Cooling Time)

- Continuous acquisition without forced cooling prevents image downgrading

Auto Alignment

- All alignment components are automatically re-positioned

Minimized preparation time

- Provides psychological stability of the patient, reducing moving artifact of images

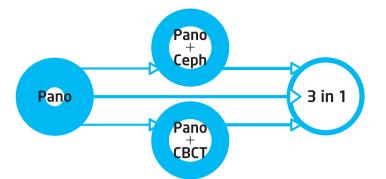
Wireless Remote Control

- Easy positioning system



be comfortable, with Ray

All patient position can be controlled by Wireless Remote Control





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*Compliance issue may be different depending on the country.

FDA registration

Technical Specifications

RAYSCAN a

Туре	Panoramic, Cephalometric, Cone Beam CT		
Patient positioning	Standing (wheelchair accessible)		
Focal spot	0.5mm		
Tube voltage	60~90kVp		
Tube current	4~17mA		
Weight	RAYSCAN α -P & 3D: 150kg (±10%) / RAYSCAN α -SC & SM3D: 177.5kg (±10%)		
	СВСТ	Panoramic	Cephalometric (Scan type)
Detector type	CMOS	CMOS	CdTe
F.O.V	9x9cm	-	Max. 26x24cm

0.143~0.286 mm³

14sec

Dimensions (Unit:mm)

Suggested Operating Space

Voxel size (CT)

Scan time

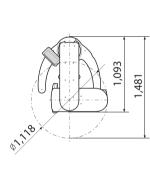
Top View

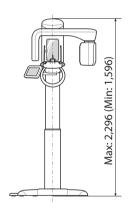
Max. 14sec

Front View

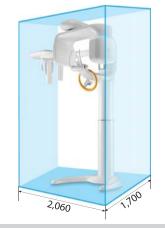
Min. 4.0sec

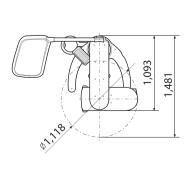


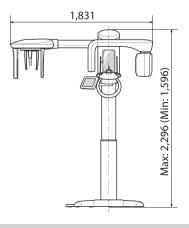




RAYSCAN α -P (Pano) / RAYSCAN α -3D (Pano + CT)







RAYSCAN α -SC (Pano + Scan ceph) / RAYSCAN α -SM3D (Pano + CT + Scan ceph)

better life, with Ray



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RBS-A01 (rev.4)