



Ray

D:ORAYSCAN α



D:O IMPLANT

Lower dose

- Quick scan times
- Pulsed X-ray technology
- Multiple scan modes

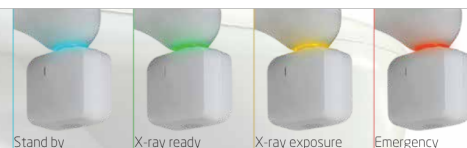
Intelligent operation

- Ingenious cooling by ATCT
- Auto alignment
- Minimized preparation time
- Remote update

Technology for Convenience
make it easy, with Ray



D:O IMPLANT



Easy to Read LED - Color coded exposure status

Intuitive user interface



Convenient wireless remote control



Designed for Optimized Workflow
make it simple, with Ray

Lower dose

Super-Fast Scan Times

4 second cephalometric scans
reduce dose by over 80%*

Cutting edge cephalometric imaging technology results in fast scan times for orthodontic procedures. The high performance Cadmium Telluride (CdTe) detector allows for the capture of excellent cephalometric images at a reduced radiation dose. Short exposure times reduce the risk of retakes associated with patient movement.

* Compared to former products

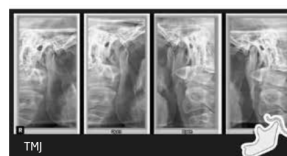
Pulsed X-ray

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.

The RAYSCAN α is designed with cutting edge detectors and pulsed X-ray technology. Various 2D panoramic modes provide the relevant clinical data you need to make accurate diagnoses. Proprietary CBCT reconstruction, Adaptive Moving Focus, and noise reduction technologies provide high quality images at optimized radiation exposure.

Intuitive interface

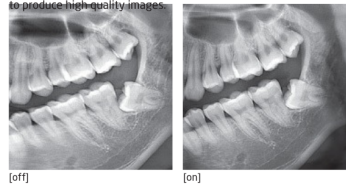
- Various scan mode with simple selection on the main display
- Standard, Tooth Full mode Segmentation, Bitewing, Orthogonal, Sinus, TMJ
- Tooth mode has less dose compared to a full mode panoramic.
- Automatically selected dental arch and X-ray exposure condition according to patient's age



Excellent image quality through advanced technology

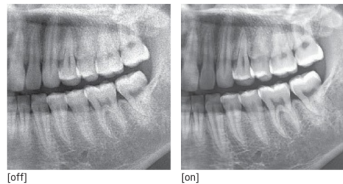
AMF (Adaptive Moving Focus)

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.



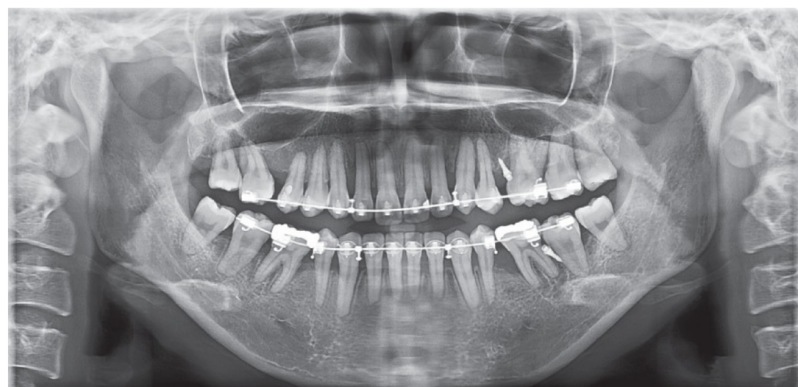
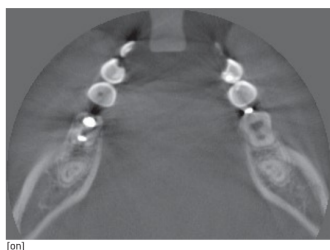
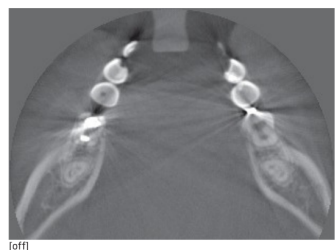
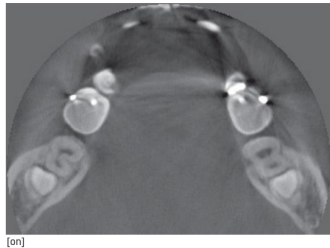
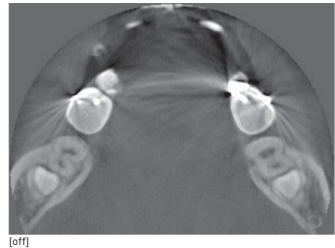
Denoising

Proprietary noise reduction technology enhances image quality.



MAR (Metal Artifact Reduction)

OurownCBCTreconstruction 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

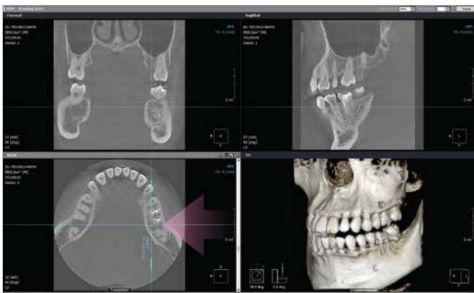
- Integrated dental image management
- Touch environment considered simple UI
- 16 bits full imaging system with DICOM 3.0
- Supports TWAIN-compliant input devices



OnDemand 3D

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 & smartphone
- 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.

D:O IMPLANT

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

Various cephalometric options for your Practice



SC (Scanning Ceph)



OCL (One-shot Ceph Large)



OCS (One-shot Ceph Standard)

Technical Specifications

RAYSCAN α			
Type	Panoramic, Cephalometric, Cone Beam CT		
Patient positioning	Standing (wheelchair accessible)		
Focal spot	0.5mm		
Tube voltage	60~90kVp		
Tube current	4~17mA		
		3D (Expert 3D)	P (Expert)
Type	CBCT	Panoramic	Panoramic
FOV / Image size	10x10cm, 9x5cm+	Max. 15cm	Max. 15cm
Voxel size	100~300μm	-	-
Scan time	14sec	Max. 14sec	Max. 14sec
Cephalometric (Option)			
Type	SC (Scanning Ceph)	OCL (One-shot Ceph Large)	OCS (One-shot Ceph Standard)
Image size	Max. 26x22.5cm	Max. 33x33cm	Max. 30x25cm
Exposure time	3.8~19.8sec	0.3 / 0.5sec	0.3 / 0.8sec

* The feature in specifications may differ from above depending on country/area due to its availability regulatory condition.

Dimensions (Unit:mm)

Suggested Operating Space

Top View

Front View

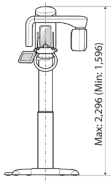
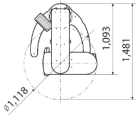
Suggested Operating Space

Top View

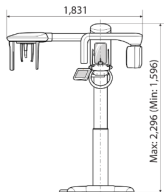
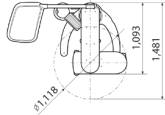
Front View



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



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



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better life, with Ray



For Children 2014



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Design and specifications
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