

RAYSCAN «



- Expert - Expert3D



Technology for Convenience make it easy, with Ray







ower dose 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. 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.

Intuitive interface

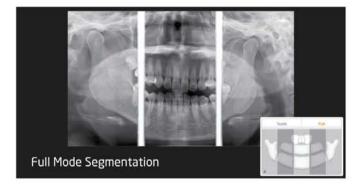
Simplified user interface provides an intuitive imaging workflow.

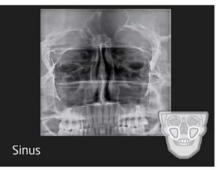
Optimize scan protocols and radiation exposure based upon patient's age and shape of their dental arch
 Easily select between panoramic, cephalomteric and CBCT modalities

- Choose between pre-set scan modes for panoramic segmentation

















Excellent image quality through advanced technology

AMF (Adaptive Moving Focus)

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





Denoising

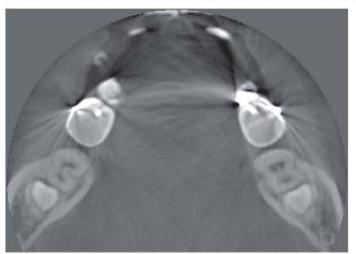
Proprietary noise reduction technology enhances image quality.



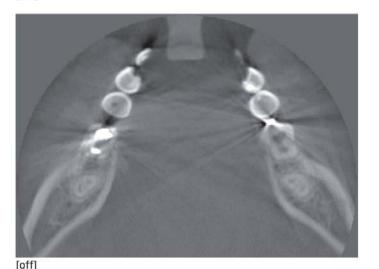


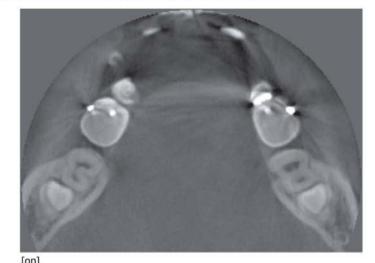
MAR (Metal Artifact Reduction)

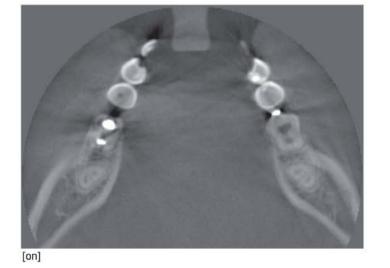
Our own CBCT reconstruction technology significantly reduces metal artifacts such as stars and shadows caused by X-ray scatter with no additional procedure and time. With the same time, RAYSCAN α provides more information around metal for accurate diagnosis.

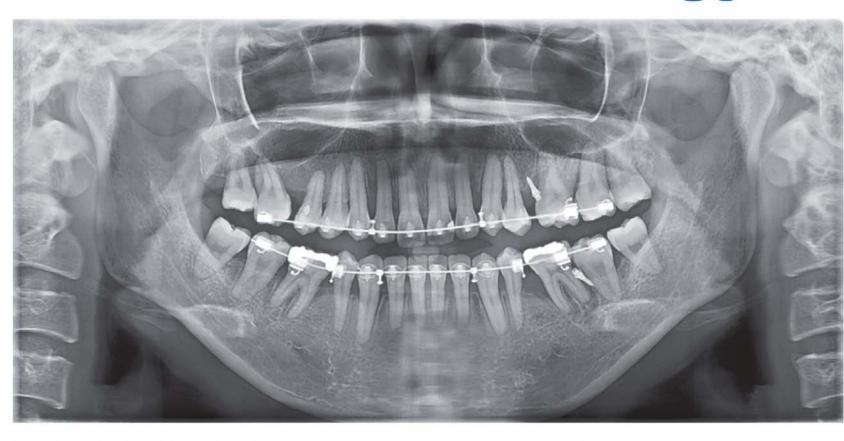




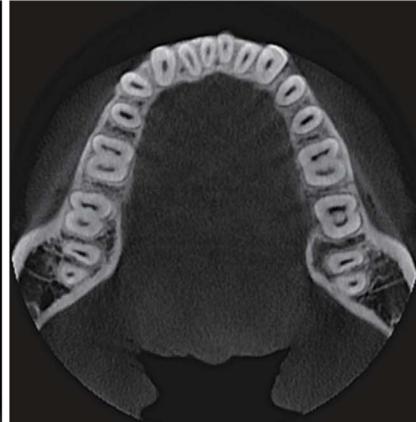












2D Imaging Software

Key Features

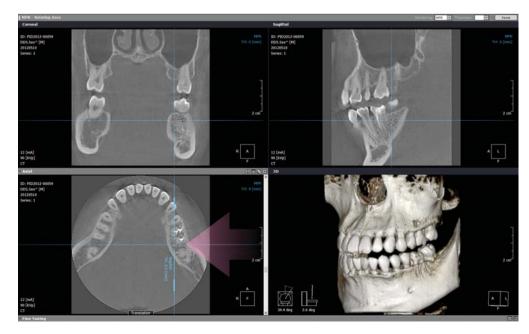
- Integrated dental image management
- Touch environment considered simple UI
- 16 bits full imaging system with DICOM 3.0
- Supports TWAIN-compliant input devices



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

- Automatic positioning for desired modality

Minimized preparation time

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

Wireless Remote Control

- Simple patient positioning



be comfortable, with Ray

All patient position can be controlled by Wireless Remote Control



Technical Specifications

RAYSCAN lpha

Turi Schilla			
Type Patient positioning Focal spot	Panoramic, Cephalometric, Cone Beam CT Standing or sitting (wheelchair accessible) 0.5mm		
Tube voltage Tube current Weight	60~90kVp 4~17mA RAYSCAN α-Expert (Pano), RAYSCAN α-Expert3D (Pano+CT):148kg (326.28lb) RAYSCAN α-Expert (Pano+Scan ceph), RAYSCAN α-Expert3D (Pano+CT+Scan ceph):164kg (361.56lb)		
	CBCT	Panoramic	Cephalometric (Scan type)
Detector type F.O.V Voxel size (CT) Scan time	CMOS FPD 9x9cm 0.143~0.286 mm ³ 14sec	CMOS detector Max. 14sec	CdTe detector 20x24cm, 22x24cm, 26x24cm - Min. 4.0sec

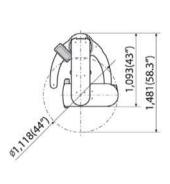
Dimensions (Unit: mm / inch)

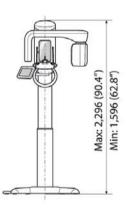
Suggested Operating Space

Top View

Front View

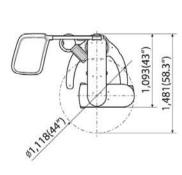


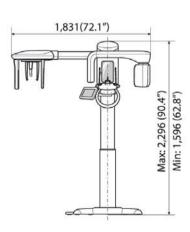




RAYSCAN a-Expert (Pano) / RAYSCAN a-Expert3D (Pano + CT)







FDA registration

better life, with Ray



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Design and specifications are subject to change without notice

