DISCOVER THE EXTENDED
16X10 FOV

Ray

RAYSCAN α+

FACE-DRIVEN SOLUTION

Capture the full spectrum of facial and dental anatomy and achieve personalized and aesthetically pleasing treatment outcomes with the advanced technology of RAYSCAN α+. This technology ensures comprehensive imaging of dental and facial bones while minimizing radiation exposure. Our 3D face and intraoral scanners enable patient-specific treatment planning, serving as an indispensable and transformative tool that enhances and inspires lives

3D Face Scanner • CBCT • Intraoral Scanner

RAYSCAN α+

RAYSCAN α+ provides a comprehensive clinical perspective with its expanded Field of View (FOV) of 16×10, ensuring confident diagnoses and treatment planning.

Multi & Free FOV

FOV 16×10 max.

Free FOV Adjustments

Implantology, Periodontics, Endodontics
Orthodontics, Dual TMJ analysis
Sinus & airway analysis

High Resolution

70 μm FOV 4×5

160 μm FOV 10×10

200 μm FOV 16×10

Accurate results instill confidence in your diagnosis

Rapid Reconstruction Time

8 sec

HD Scan

The ability to review CT images quickly can significantly reduce the time patients spend waiting in the chair

Remote Control

Improved Patient Positioning & Operator Ergonomics

Convenient and easy scanning

Expand your vision

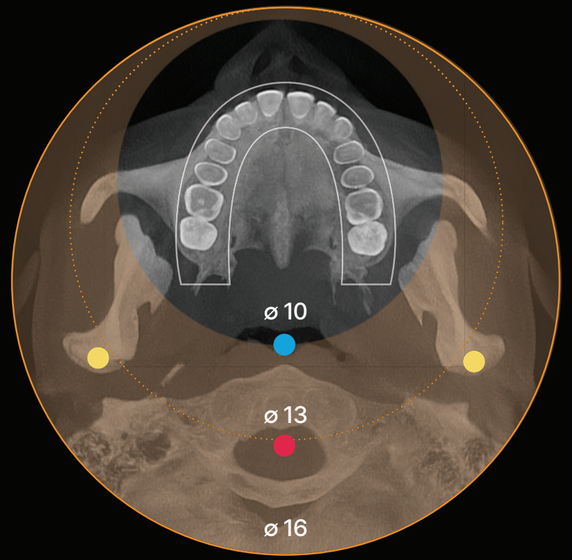
RAYSCAN α+ can effectively capture all essential anatomical regions in various diagnostic scenarios with its expanded Field of View (FOV) of 16×10.

16 diameter

10 height

16 diameter

With a diameter of up to 16cm, offers an expanded field of view, allowing for comprehensive examination of full dentition, third molars, dual TMJ, airway, and cervical spine.



- RAYSCAN α 3D area
- RAYSCAN α+ 130 area
- RAYSCAN α+ 160 area
- Full dentition
- Dual TMJ
- Airway
- Cervical spine

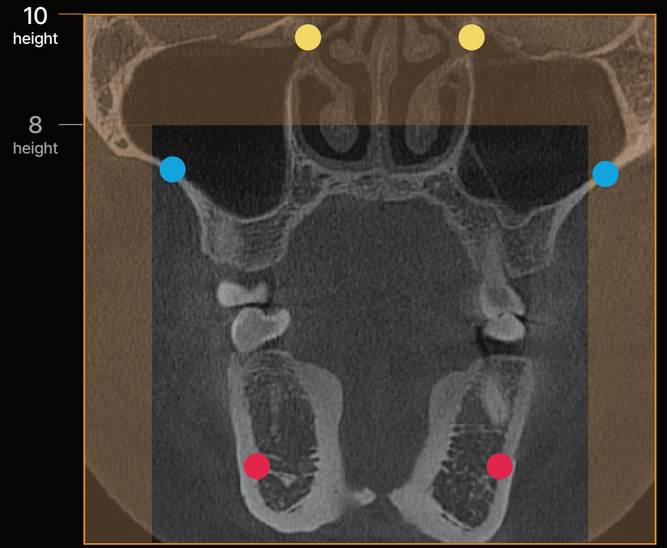
For Implantology & Orthodontics

- Surgical planning and surgical guide fabrication
- Molar extraction • Treatment planning for impactions
- Airway and dual TMJ analysis

10 height

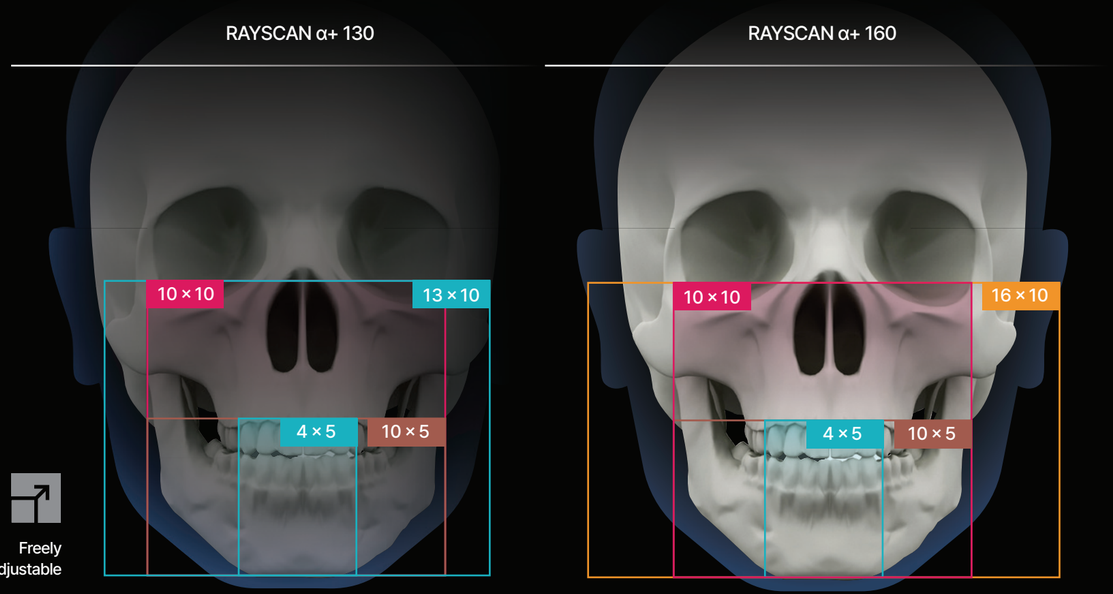
The FOV height is up to 10cm, which allows for a comprehensive examination of the inferior alveolar nerve, full dentition, maxillary sinus, sinus artery, and ostium in a single scan under the chin. This feature is highly beneficial for maxillary and mandibular implant treatment and is a practical surgical guide. In orthodontic treatment, this technology can examine deeply impacted teeth and supernumerary teeth.

- Competition
- RAYSCAN α+ area
- Ostium
- Sinus artery
- Mandibular nerve canal



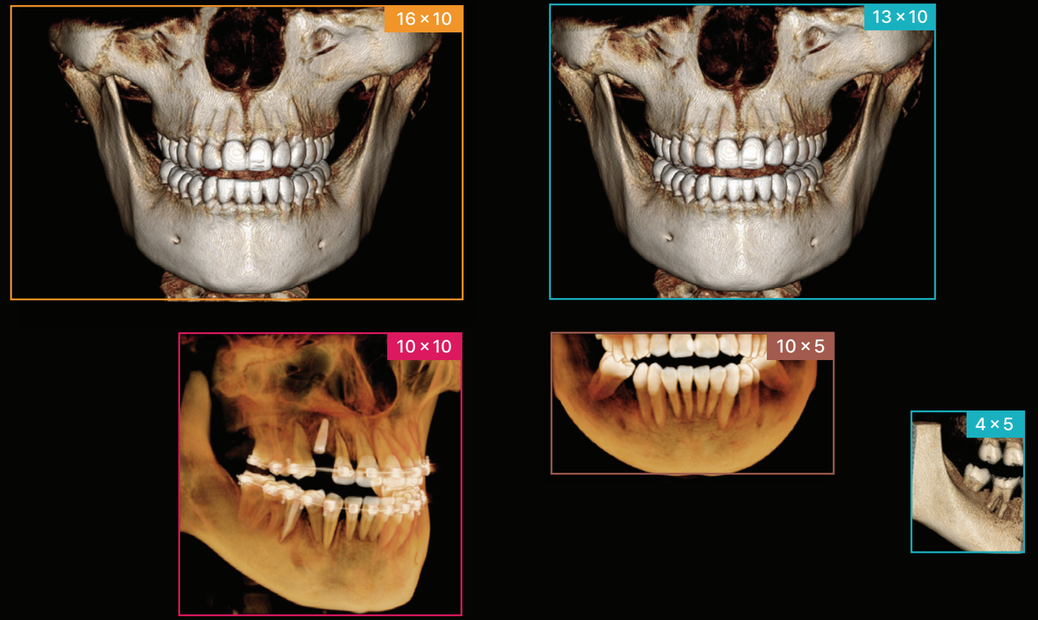
Free-FOV Treatment Provides Diverse Treatment Possibilities

With RAYSCAN α+, prioritizing patient well-being is paramount. We provide customizable scan volumes and high-resolution images to cater to individual clinical needs. Tailoring scan volumes ensures precise and diagnostic image acquisition, ensuring accurate diagnoses and targeted treatment planning.



Tackle More Dentistry

- Implantology • All-on-X implant planning • Orthodontics
- Complex impactions • Dual TMJ • Sinus and airway analyses
- Endodontics

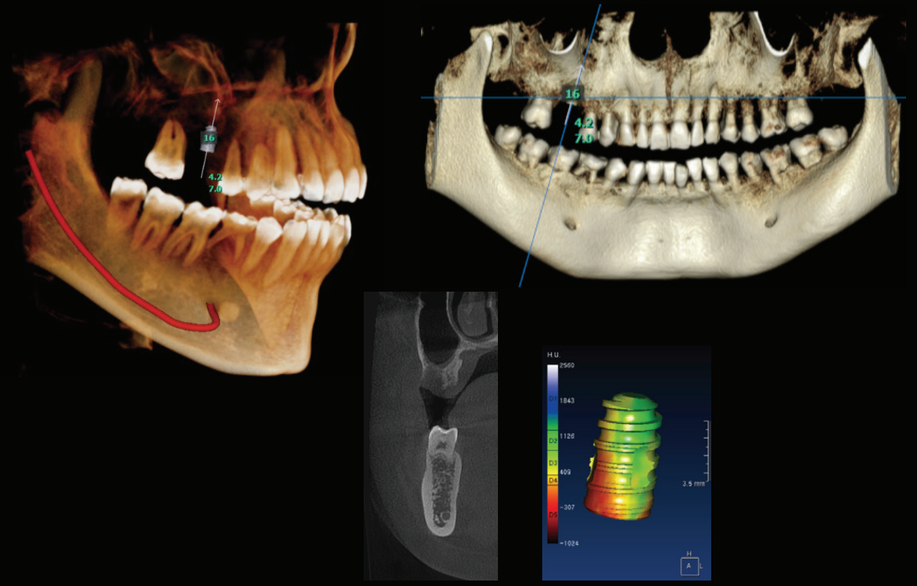


High-Resolution Imaging for Accurate Diagnosis

Experience exceptional image clarity and customizable scan volumes with RAYSCAN α+. Tailor your scans to meet your specific clinical needs, ensuring the capture of every intricate detail and unleash boundless possibilities.

Implant

FOV 10×10cm, 160μm



Diagnose all areas

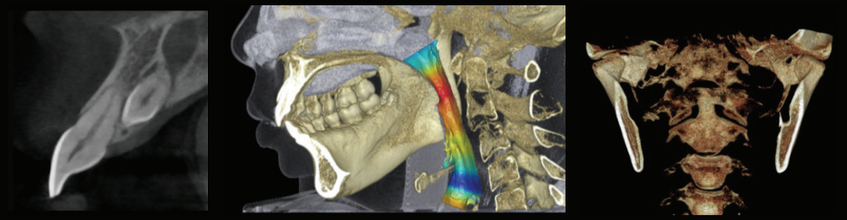
FOV 4×5cm

70 μm

FOV (cm)	Voxel size (mm)
16×10	0.2
10×10	0.16
4×5	0.07

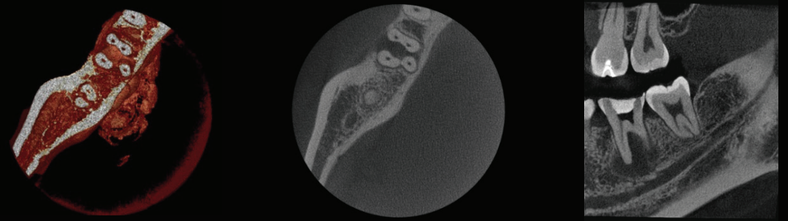
Orthodontic

FOV 16×10cm, 200μm



Endo

FOV 4×5cm, 70μm



Rapid Reconstruction Time

RAYSCAN α+ allows for lightning-fast image reconstruction, empowering clinicians to review CT scans within a mere 8 seconds. This leads to reduced patient wait times and enhances the efficiency of treatment planning processes.

Significantly Reduces Chair Time

8 sec
HD Scan Reconstruction Time

1 sec
Fast Scan Reconstruction Time

Wireless Remote for Maximum Convenience

Our remote control empowers patients and healthcare professionals with effortless operation, allowing them to focus on treatment outcomes.

Type of Patient
Protocol

Columm
Up / Down

Canine beam adjustment (Pano mode)
Pre motion (CT mode)

Laser beam on/off
Blue light guide on/off
90 degree rotation

Collimator adjustment

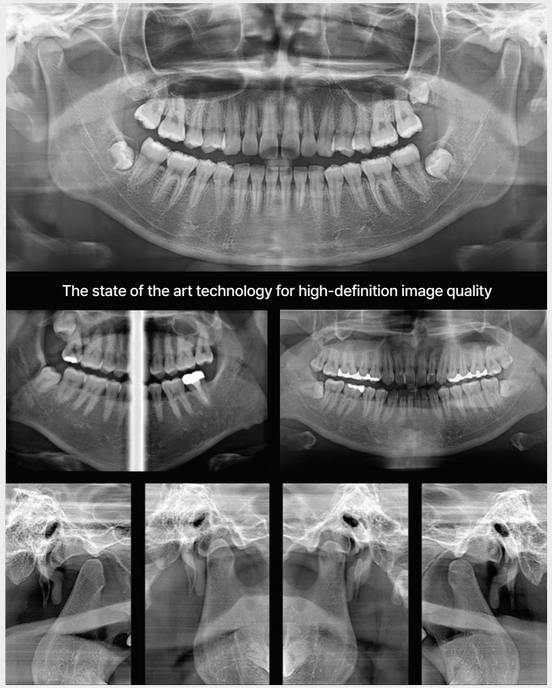
Ready / Cancel

FACE-DRIVEN DENTISTRY

RAYSCAN α+

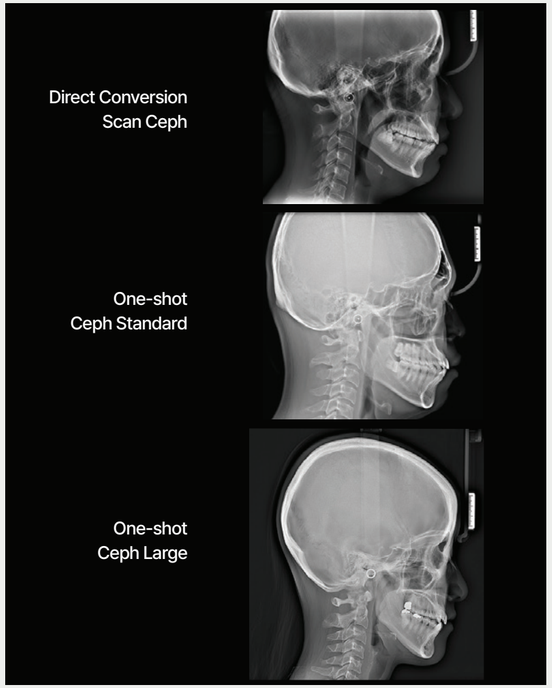
Clear Panorama

· AMF (Adaptive Moving Focus) technology selects the optimal image layer to provide clear panoramic images, making it easy to identify the patient's periodontal condition and lesion location.



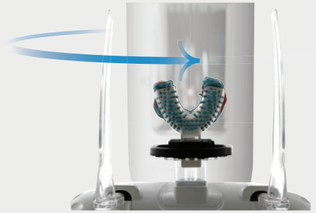
Optional Ceph Modality

· Option for direct conversion scan ceph or one-shot ceph sensors. One-shot ceph captures images in just 0.8 seconds, minimizing distortion and reducing patient radiation exposure. Direct conversion scan ceph attachment ensures hi-resolution ceph scans.



Impression Scan

· RAYSCAN α+ employs cutting-edge 3D scanning technology for its impression scanning feature, which captures data by imaging physical impressions and gypsum models. This gathered data can then be utilized to generate the STL file required for CAD/CAM applications.



Visible X-ray Guide

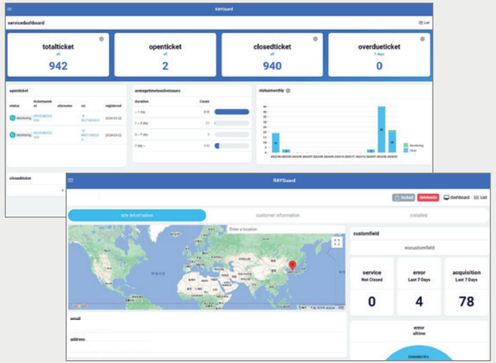
· The world's foremost visible X-ray guide prominently indicates the location of the scan area. Users can effortlessly capture the region of interest using a patient-safe visible blue-light guide method, ensuring convenience and safety.

'RAYGuard' is an Excellent Support System

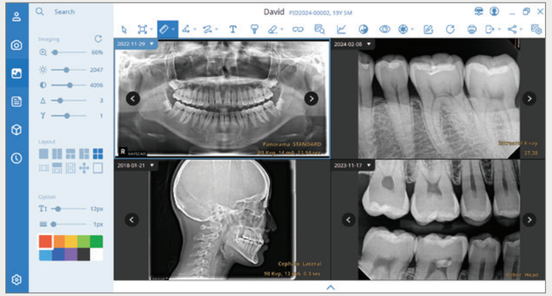
24/7 monitoring system

· We monitor all of our installed X-ray units using an advanced IOT system called RAYGuard.

· RAYGuard's 24/7 monitoring support significantly reduces the time required to address detected issues. By proactively equipping the support team, it minimizes the need for multiple visits to resolve the same issue, enabling more efficient resolution.



Software



2D Imaging Software

SMARTDent

- Integrated dental image management
- Implant & canal draw simulation
- Simple and powerful search(id, name, date, modality)
- 16 bits full imaging system with DICOM 3.0
- Supports TWAIN-compliant input devices
- Convenient layout

3D Imaging Software

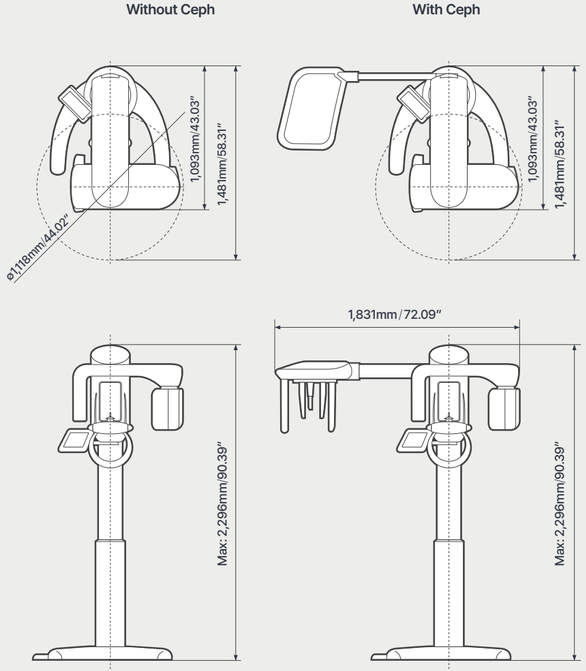
Ondemand 3D

- Accurate diagnosis & Analysis
- Powerful 3D rendering
- Panoramic image & Cross-Sectional image
- Nerve canal drawing & implant simulation
- Simple Airway & TMJ analysis
- DICOM print & CD/DVD burning

Specifications

Type	Cone Beam CT, Panoramic, Cephalometric, Object scan(CT Impression)	
Patient Positioning	Standing(Wheelchair accessible)	
Focal Spot	0.5mm	
Tube Current	1~17mA	
Tube Voltage	60~100kV	
CBCT	**α+ 130**	**α+ 160**
FOV Size	Max. 13×10(H) cm	Max. 16×10(H) cm
Free FOV support	Yes	
Scan Time	4.9~14sec	
Voxel Size	70~300μm	
Fast Scan Mode	Yes	
Object Scan Support	Yes(CT Impression & Model scan)	
Panoramic		
Free FOV Support	Yes	
Scan Time	Max.14sec	
Cephalometric (Option)		
Type & Scan Time	SC(Scan Ceph) Min. 4.0sec OCS(One-Shot Ceph Standard) Max. 0.8sec OCL(One-Shot Ceph Large) Max. 0.5sec	

Dimensions



IDEA Bronze

REDDOT Winner

GD Best of Best

GD Australia

Ray

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