DISCOVER THE EXTENDED 16X10 FOV





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

RAYSCAN CH

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



Free FOV Adjustments

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

High Resolution

70 µm 160 µm 200 µm FOV 10×10 FOV 16×10 FOV 4×5

Accurate results instill confidence in your diagnosis

Rapid Reconstruction Time

 15_{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 The remote control is not provided in Canada

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.



6 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.





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
<u>RAYS</u>CAN α+ area

For Implantology & Orthodontics

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

10 height 8 height



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.



Orthodontic FOV 16×10cm, 200µm

Endo FOV 4×5cm, 70µm

Diagnose all areas

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





Rapid Reconstruction Time

RAYSCAN α + provides rapid and precise image reconstruction, enabling clinicians to examine CT scans in just 15 seconds. This leads to reduced wait times for patients and expedited treatment planning processes.

Wireless Remote for Maximum Convenience

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

Significantly Reduces Chair Time

15 sec	
HD Scan	••••
Reconstruction	••••

5 SEC Fast Scan construction Time











FACE-DRIVEN DENTISTRY

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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.



The state of the art technology for high-definition image quality



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.



'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.



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.





Software

Specifications



2D Imaging Software SMARTDent

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



3D Imaging Software RealGUIDE

- \cdot Vast implant library
- · Powerful Artificial intelligence (AI) tools
- \cdot Cloud-based infrastructure for licenses and libraries management
- · Mac, PC or iOS mobile compatible
- \cdot Built-in communication and file sharing platform
- · Open architecture for maximum flexibility

уре	Cone Be Panoran Object s
Patient Positioning	Standing
ocal Spot	0.5mm
ube Current	1~17mA
ube Voltage	60~100k
свст	α+ 130
OV Size	Max. 13×
ree FOV support	Yes
Scan Time	4.9~14se
/oxel Size	70~300µ
ast Scan Mode	Yes
)bject Scan Support	Yes(CT I
Panoramic	-
ree FOV Support	Yes
Scan Time	Max.14se

Cephalometric (Option)

Type & Scan Time	SC(Scar Min. 4.0s
	OCS(On Max. 0.8
	OCL(On Max. 0.5

Dimensions



IDEA Bronze

REDDOT Winner

GD Best of Best



red<mark>dot</mark> design award winner 2012







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