HIGH PERFORMANCE PACKED INTO
A COMPACT CBCT

minimax Ray



RAYQuantum



Tailored Solutions for Those Who Pursue Professionalism and Sophistication

FACE-DRIVEN SOLUTIONS tailored to today's practice:
PRECISION, VERSATILITY, AND FAST RESULTS

FACE-DRIVEN SOLUTION

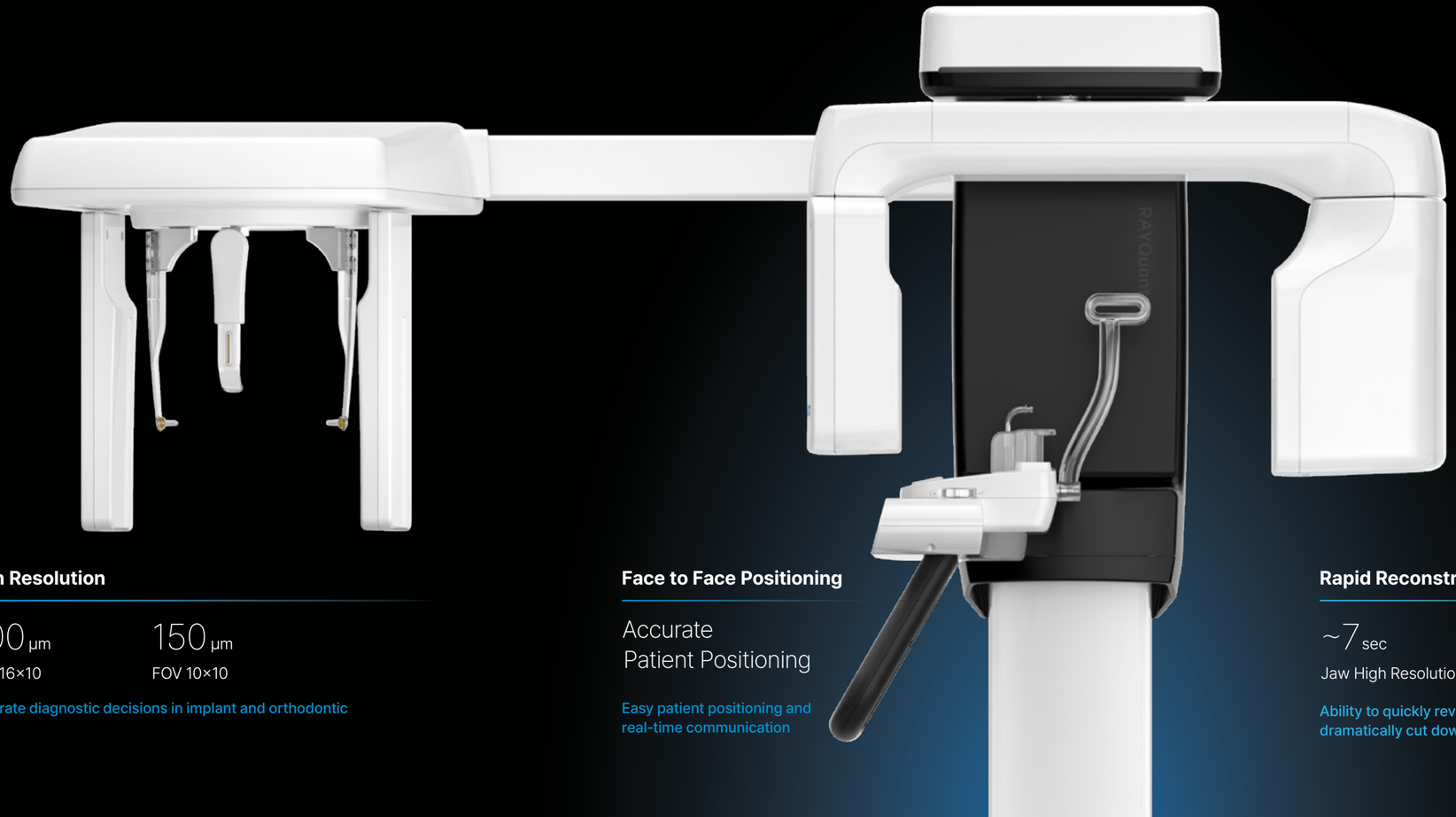
Capture the full spectrum of facial and dental anatomy and achieve personalized and aesthetically pleasing treatment outcomes with the advanced technology of RAYQuantum. This technology ensures comprehensive imaging of dental and facial bones while minimizing radiation exposure. Our 3D face and intraoral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

3D Face Scanner • CBCT • Intraoral Scanner



RAYQuantum

RAYQuantum 10×10 allows for comprehensive clinical perspectives, enabling confident diagnoses and treatment plans, by providing optimal FOV size and resolution essential for dental treatment.



Optimal FOV size

FOV 16×10
RAYQuantum[160] Max. Size

FOV 10×10
RAYQuantum[100] Max. Size

Implantology, Periodontics, Orthodontics, Dual TMJ analysis, Sinus & Airway Analysis
**Dual TMJ Analysis is not available on RAYQuantum[100]

High Resolution

200 μm
FOV 16×10

150 μm
FOV 10×10

Accurate diagnostic decisions in implant and orthodontic

Face to Face Positioning

Accurate
Patient Positioning

Easy patient positioning and real-time communication

Rapid Reconstruction Time

~7 sec
Jaw High Resolution Scan

Ability to quickly review CT images and dramatically cut down on chair time

Essential coverage for confident diagnostics

RAYQuantum's expanded 16×10 Field of view ensures clear capture of essential anatomical areas across various diagnostic needs.



16 diameter

10 height

16 & 10 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.

Competitors

RAYQuantum[100]

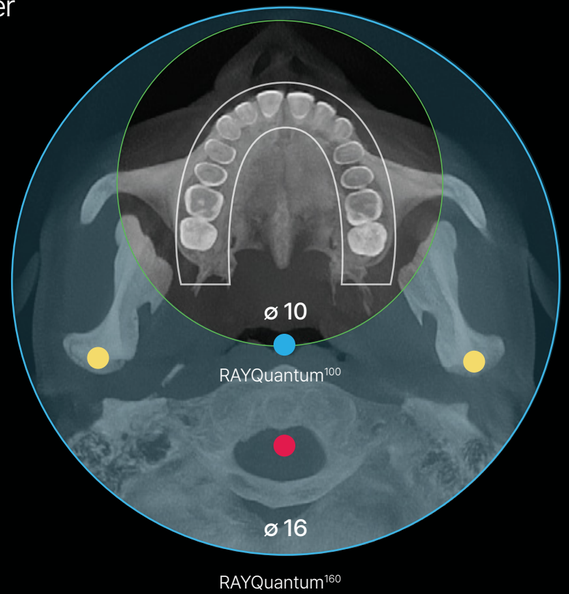
RAYQuantum[160]

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 (RAYQuantum[160] only)

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.

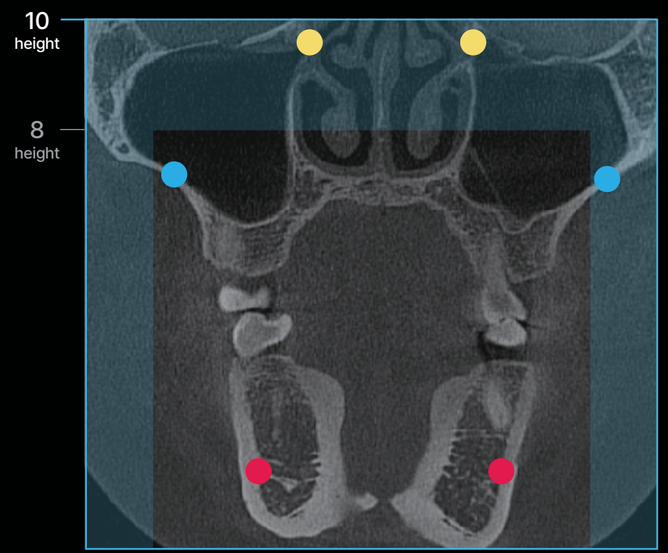
Competitors

RAYQuantum

Ostium

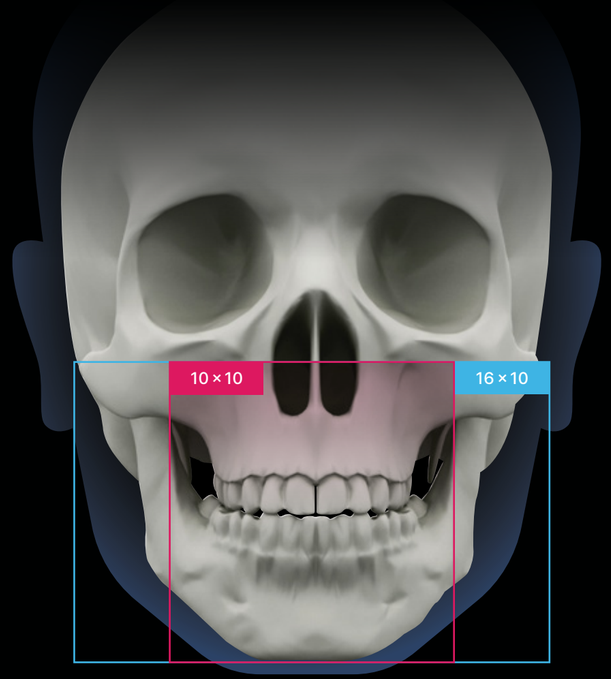
Sinus artery

Mandibular nerve canal



Predefined FOV options for ease and convenience

Predefined FOV options for ease and convenience allow quick and effortless selection of the scanning area with just one or two clicks.



RAYQuantum [160]



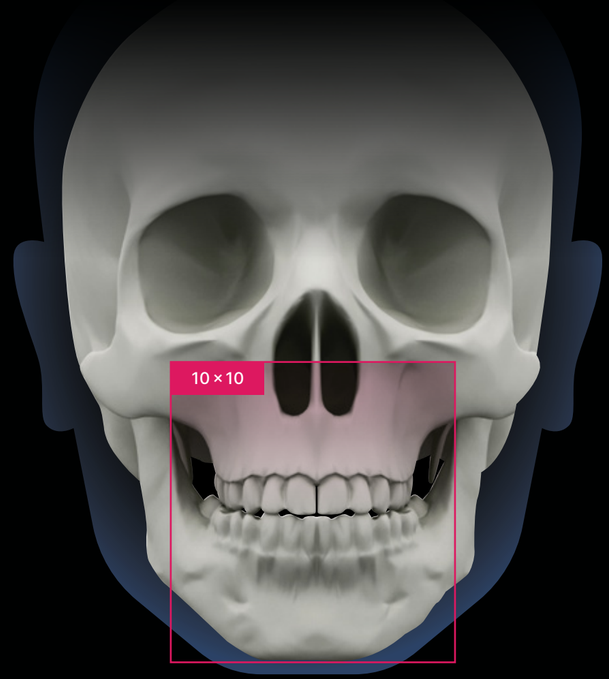






Tackle More Dentistry

- Implantology
- All-on-X implant planning
- Orthodontics
- Complex impactions
- Dual TMJ
- Sinus and airway analysis



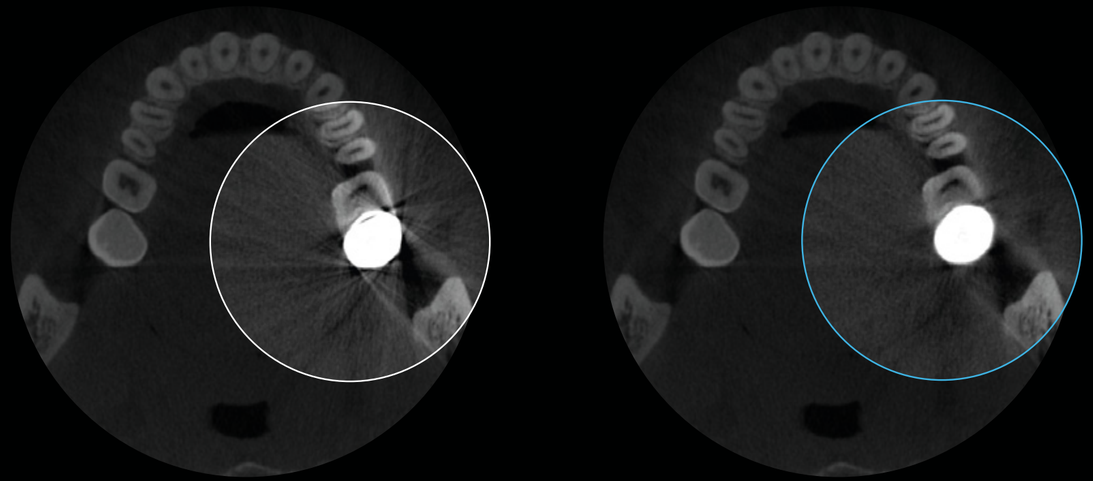
RAYQuantum [100]

High Definition Imaging

RAYQuantum's specialized technology accurately represents the size of metallic artifacts, reduces scattering light, and effectively minimizes noise, enabling more accurate diagnosis and treatment planning.

Metal Artifact Reduction [MAR]

RAYQuantum is a CBCT with MAR technology that reduces metal artifacts, resulting in more precise and reliable imaging, facilitating accurate diagnosis and treatment planning.



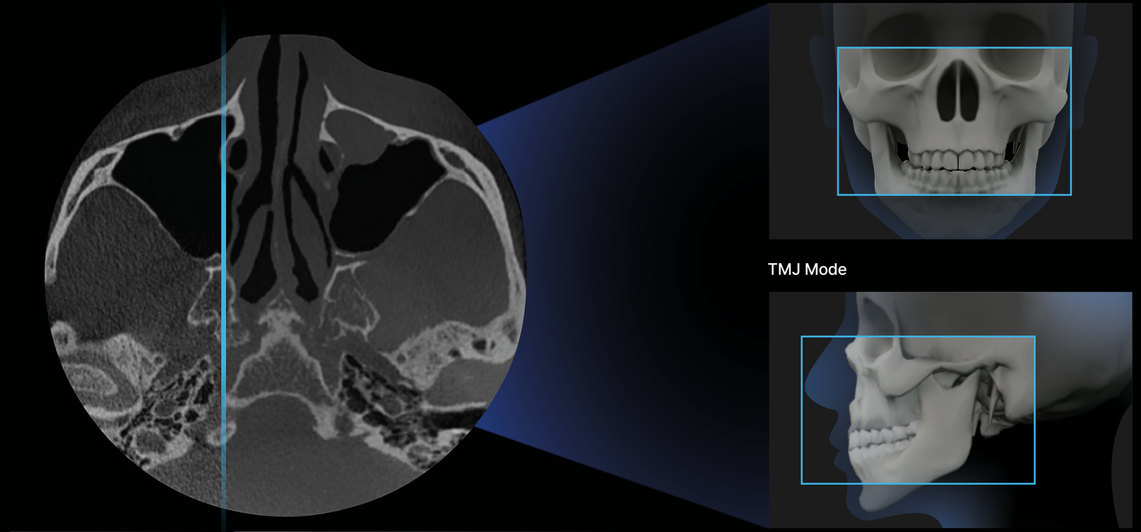
MAR Off

MAR On

Noise Reduction for sinus and TMJ

Detail Preserving Noise Reduction [DPNR]

RAYQuantum's DPNR technology effectively reduces CBCT noise, enhancing the clarity of anatomical structures and making interpretation and analysis easier.



DPNR Off

DPNR On

DPNR: Detail Preserving Noise Reduction

High Definition Imaging

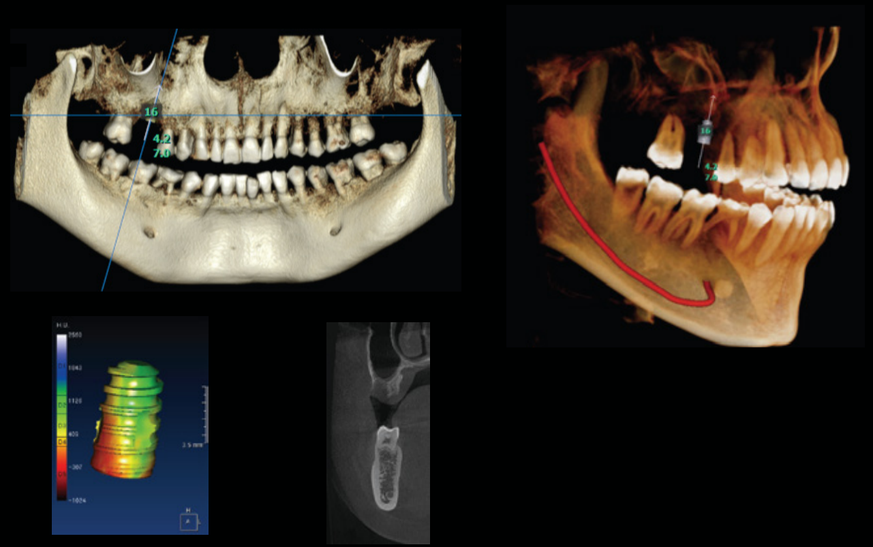
The RAYQuantum provides high-resolution 150-micron imaging for precise diagnostics and detailed assessments, making it ideal for implant procedures and optimal treatment planning.

For Implants and Orthodontics

FOV 10×10cm	FOV (cm)	Voxel size (mm)
150 µm	16×10	0.2
	10×10	0.15

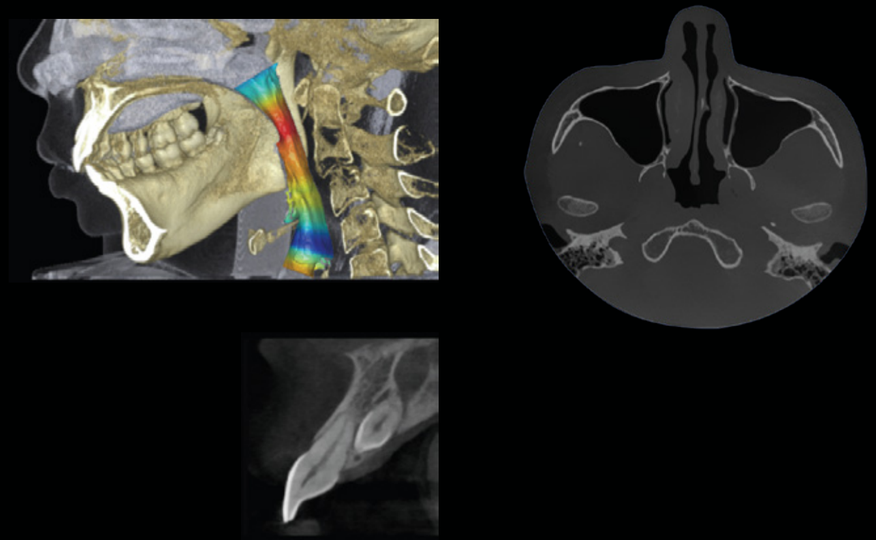
Implant

FOV 10×10cm, 150µm



Orthodontic

FOV 16×10cm, 200µm



Face-to-Face positioning

Face-to-Face positioning enhances patient comfort through eye contact and real-time communication, ensuring precise alignment and accurate imaging.

Face-to-Face Positioning Delivers Precise Alignment and Comfort



Rapid Reconstruction Time

RAYQuantum provides rapid and precise image reconstruction, enabling clinicians to examine CT scans in just 7 seconds. This leads to reduced wait times for patients and expedited treatment planning processes.

Significantly Reduces Chair Time

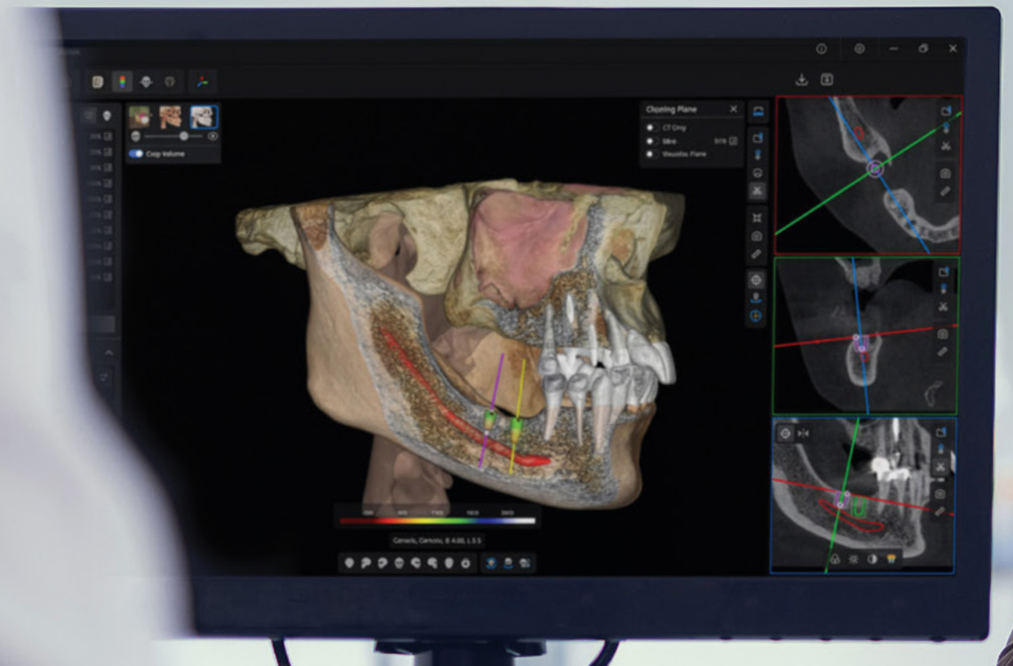
7 sec
Jaw High-Resolution Reconstruction Time

1.5 sec
Jaw Low-Dose Reconstruction Time



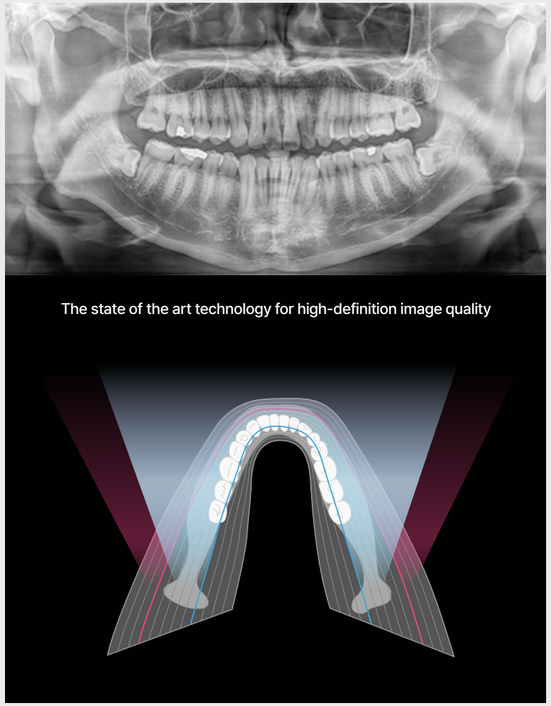
FACE-DRIVEN DENTISTRY

RAYQuantum



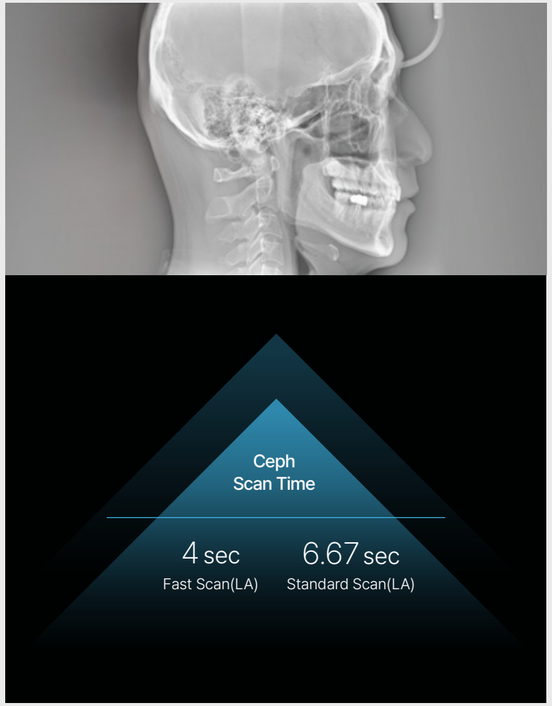
Clear Panorama

· 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.



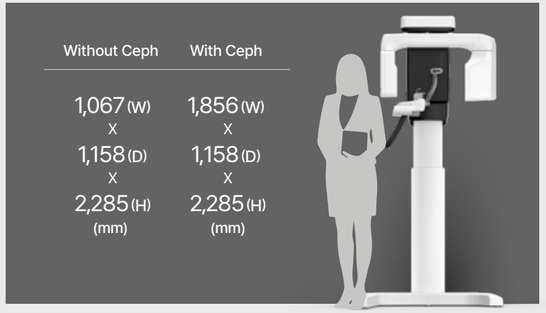
Clear cephalometric

· For optimal imaging, a fast scan takes just 4 seconds, while a standard scan takes only 6.67 seconds, minimizing patient motion blur.



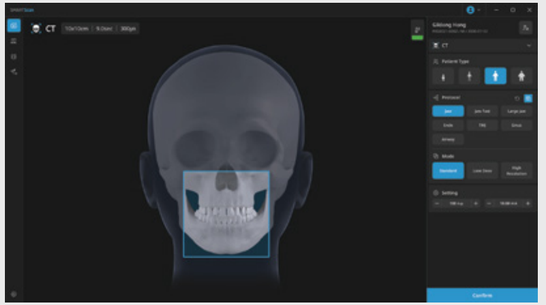
Compact unit size

· With its compact design, the RAYQuantum can be efficiently arranged in a small X-ray room, and its streamlined workflow minimizes patient movement, ensuring a more comfortable imaging experience.



Intuitive Functionality

· The dark mode design improves X-ray readability with a sleek, intuitive interface, making it easier for all users to achieve high quality results.

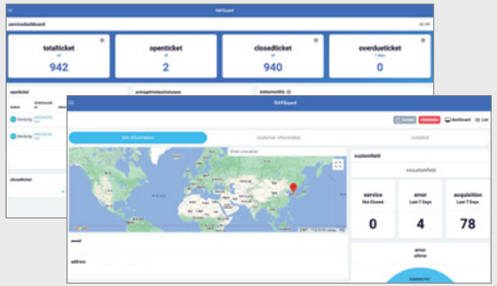


'RAYGuard' is an Excellent Support System

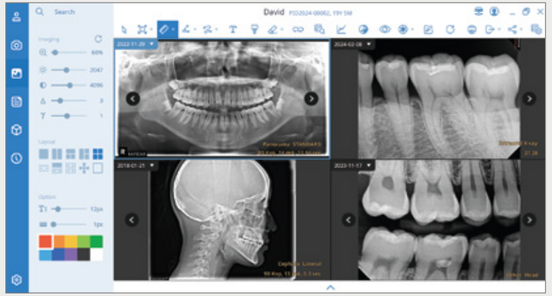
24/7 monitoring system

· 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.

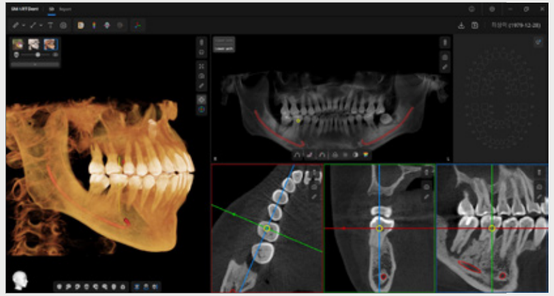


SMARTDent Software



2D Imaging Software

· 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

· Intuitive user interface
· Comprehensive analysis tools
· Multiple viewing modes
· Easy implant simulation
· High-resolution 3D imaging

Specifications

RAYQuantum (RCT600)

Type	Cone Beam CT, Panoramic, Cephalometric
Patient Positioning	Standing (Wheelchair accessible)
Focal Spot	0.5mm
Tube Current	1~17mA
Tube Voltage	60~100kV

CBCT	**RAYQuantum 160**	**RAYQuantum 100**
FOV Size	Max.16×10(H) cm	10×10(H) cm
Scan Time	4~14 sec	
Voxel Size	150~300μm	
Fast Scan Mode	Yes	

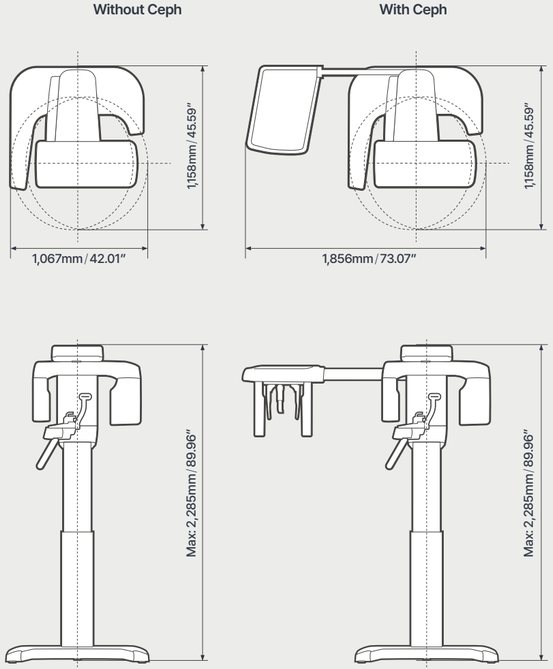
Panoramic

Scan Time	Max.13.51sec

Cephalometric (Option)

Type & Scan Time	SC (Scan Ceph) Min.4.0 sec

Dimensions



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