# RAYSCAN α+

**Three Options with Max FOV of:**

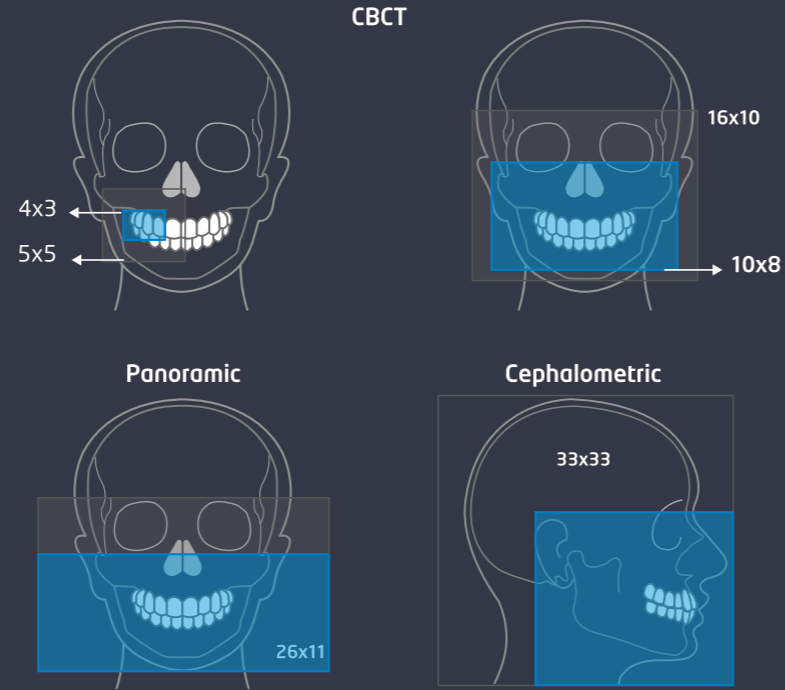## 16×10 | 12×10 | 8×8

Pano / Ceph / CBCT / CT Impression Scan

# 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.

## Dose Reduction

### CBCT

4x3
5x5
16x10
10x8

### Panoramic

26x11

### Cephalometric

33x33

# Wireless Remote for Maximum Convenience

• For patients and healthcare professionals alike, our remote control empowers them with effortless operation, allowing them to focus on what truly matters-the treatment outcome.

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

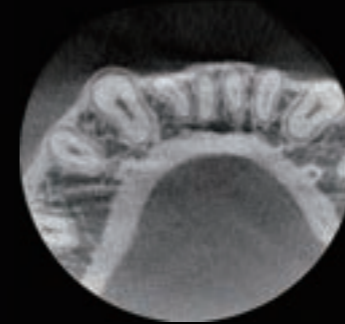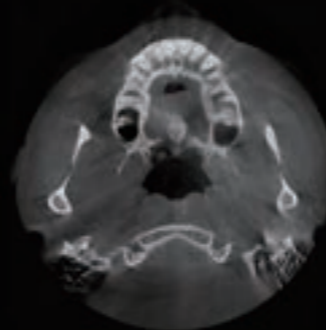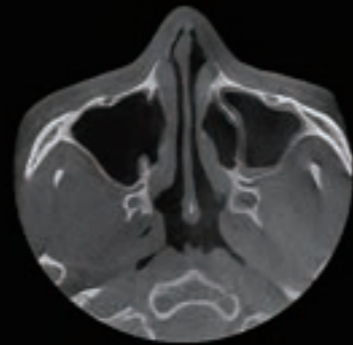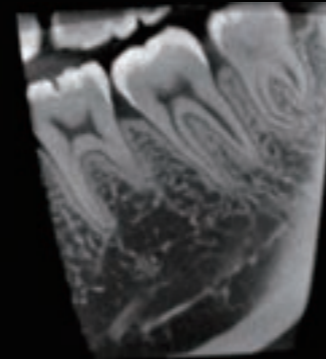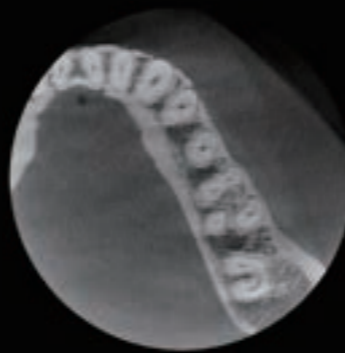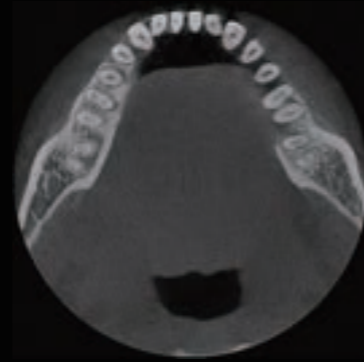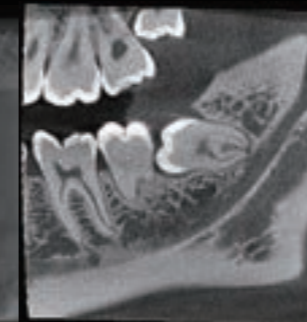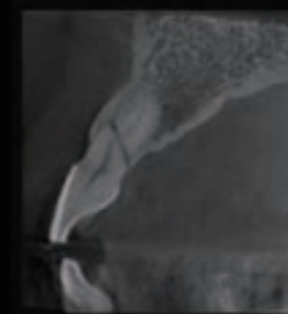# Superior Image Processing Technology

# Specialized for Endodontic Procedures



See more details using a high-resolution CT image in a specific area.

Have more confidence before, during, and after the procedure with increased awareness.

Do more procedures in less time.

More details, more confidence, more procedures

# View CT Images in Less than 10 Seconds

Scan your patients faster than ever before!

66% faster scan, ideal for implant placement validation and for patients than cannot hold still.

Fast scan mode radiation dose is only 22.9 μSv

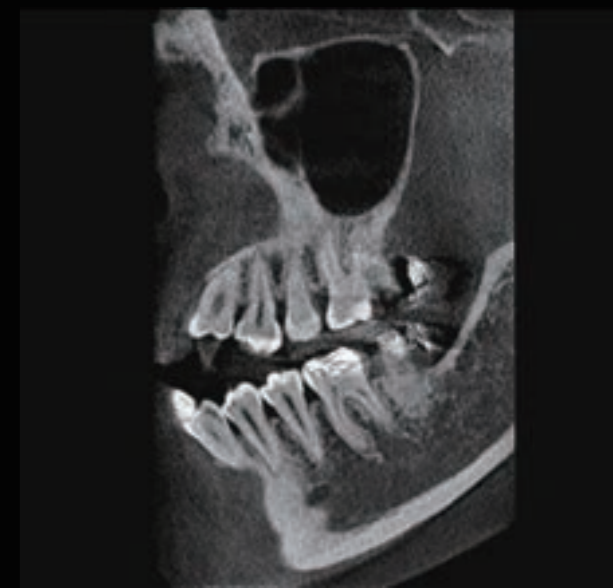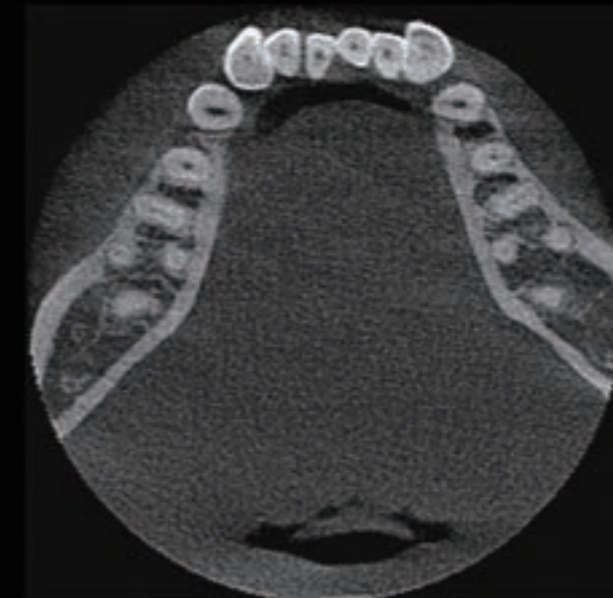| 2D Panoramic | | 3D Alpha Plus (fact scan mode) |
|---|---|---|
| **18s** | VS | **9.9s** |
| 14 second scan, 4 second image processing & save | | 4.9 second scan, 4 second reconstruction, 1 second save |

Fast scan
**4.9 seconds**

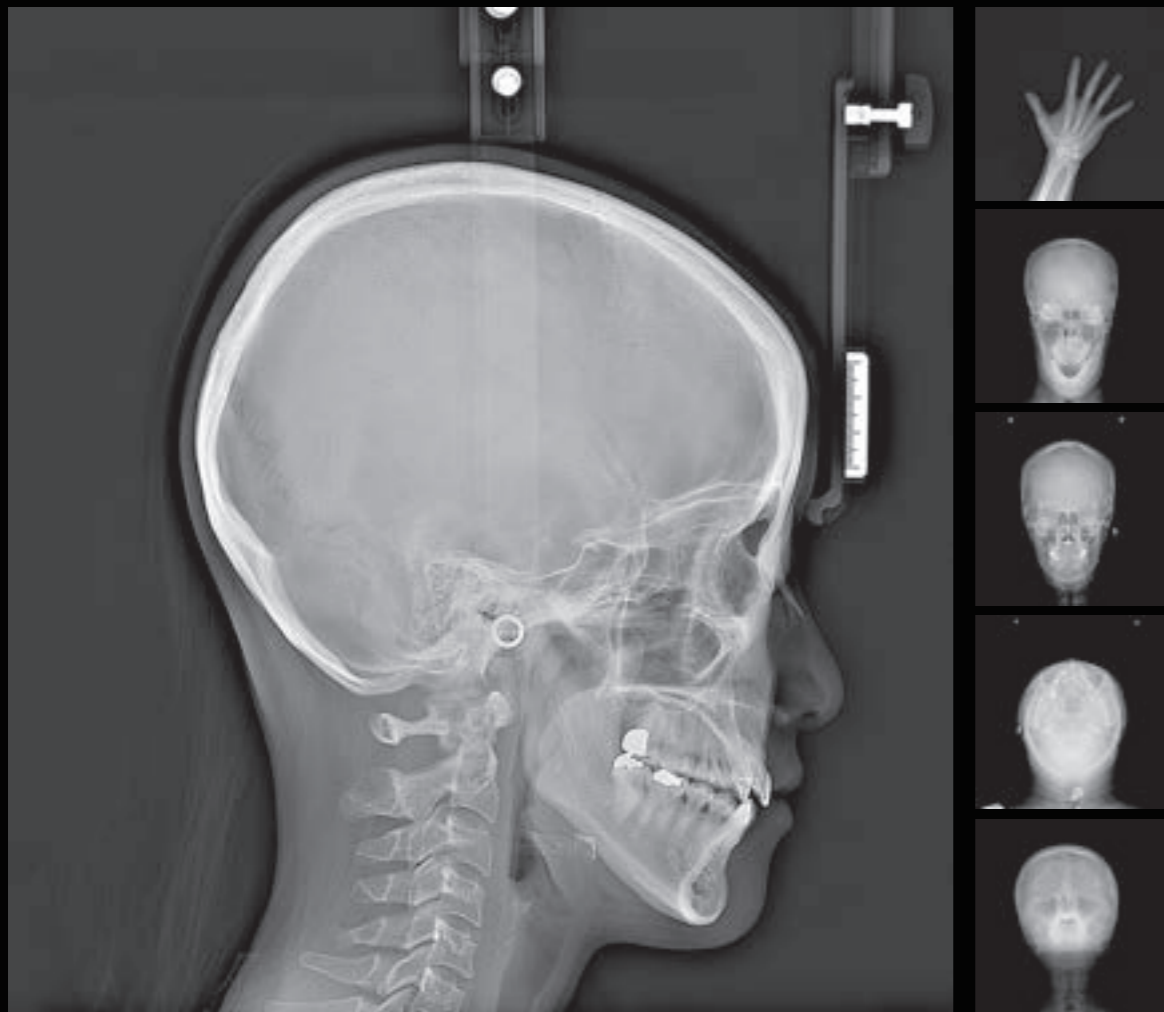3D Reconstruction
**4.0 seconds**

Save
**1.0 second**

Total time
**9.9 seconds**

# One Shot Cephalometric

One-shot cephalometric imaging acquires images in less than 1 second to reduce image distortion.

Choose from two sizes of one shot Cephalometric sensors.

A scanning Ceph is also available for a small overall unit footprint.

Large

### One Shot Cephalometry

Out cutting-edge Flat Panel Detector (FPD) provides a new level of performance and reliability while reducing radiation exposure and image distortion due to patient movement. Two different sizes of FPD are available.

Standard

### Scanning Cephalometry

Our scanning ceph module allows clinicians to upgrade their diagnostic capabalities while keeping costs to a minimum.
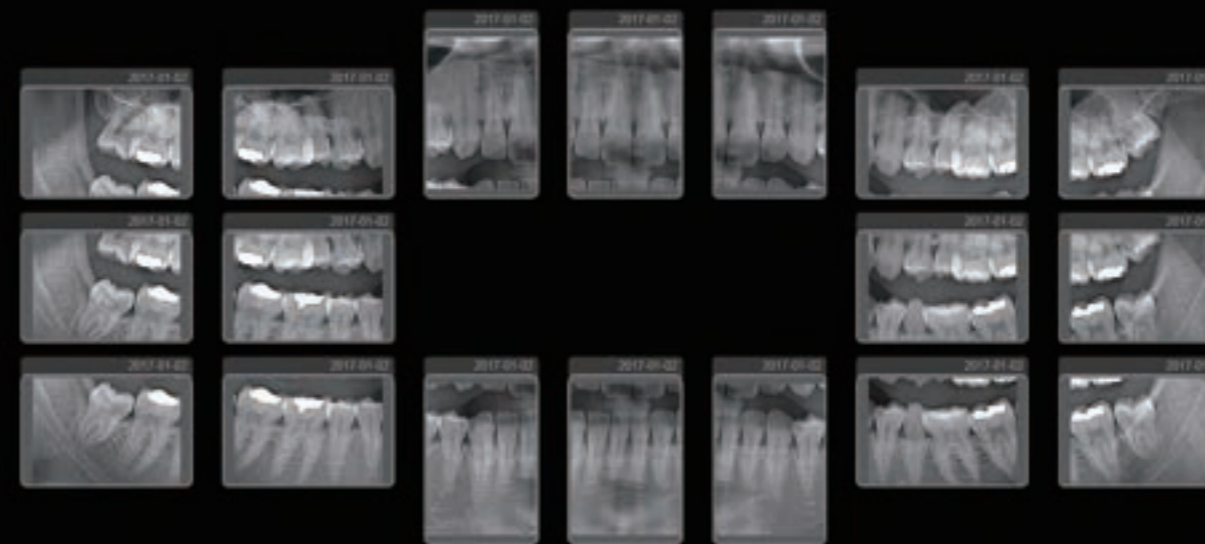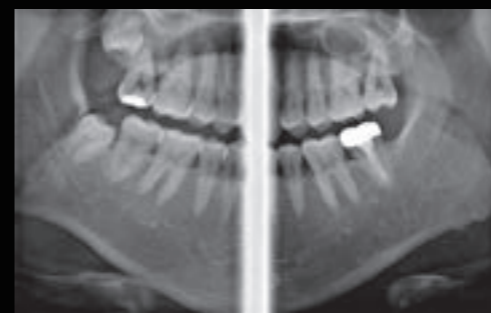
# Clear Panorama

• 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.
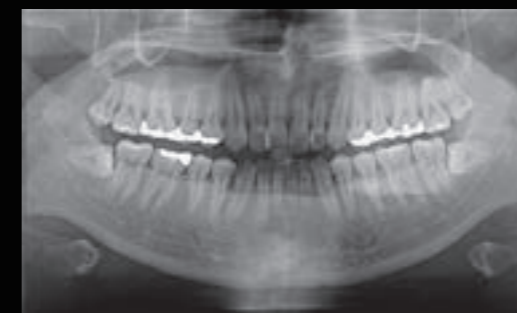


FMX (Full Mouth X-ray), extracting from panoramic image



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

Bitewing          Orthogonal          TMJ
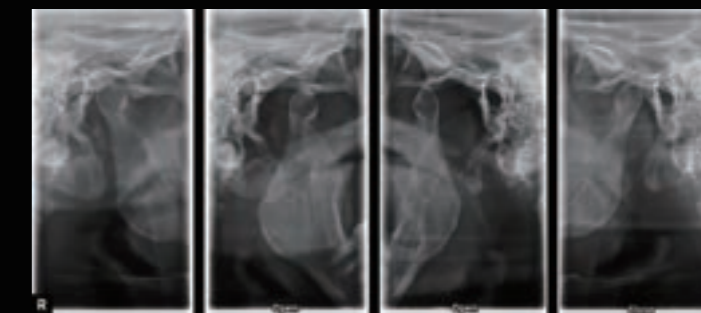
# Object Scan in combinaton with RAYDent Solution

Object scan is a breakthough 3D scanning method to acquire 3D data from impressions and plaster models
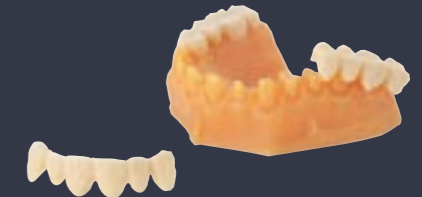
- Digital production of dental appliances in clinic or lab.
- Applications include crowns & bridges, implant surgical guides, endo guides, tooth aligner, and more.
- Online design support.
- Seamless workflow from CT scanning to 3D printing.



RAYDent Designer

RAYDent Printer

- **Scan**
  CT Impression scan

- **Design**
  Simple & easy CAD

- **Make**
  Fast & accurate 3D printing

- **Results**
  Dental appliances

# No matter where you are
# Rayguard IoT

# '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.

# Various FOV Options

RAYSCAN α+ comes in three different maximum Cone Beam CT FOV configurations:

RAYSCAN α+ 80 (8×8)
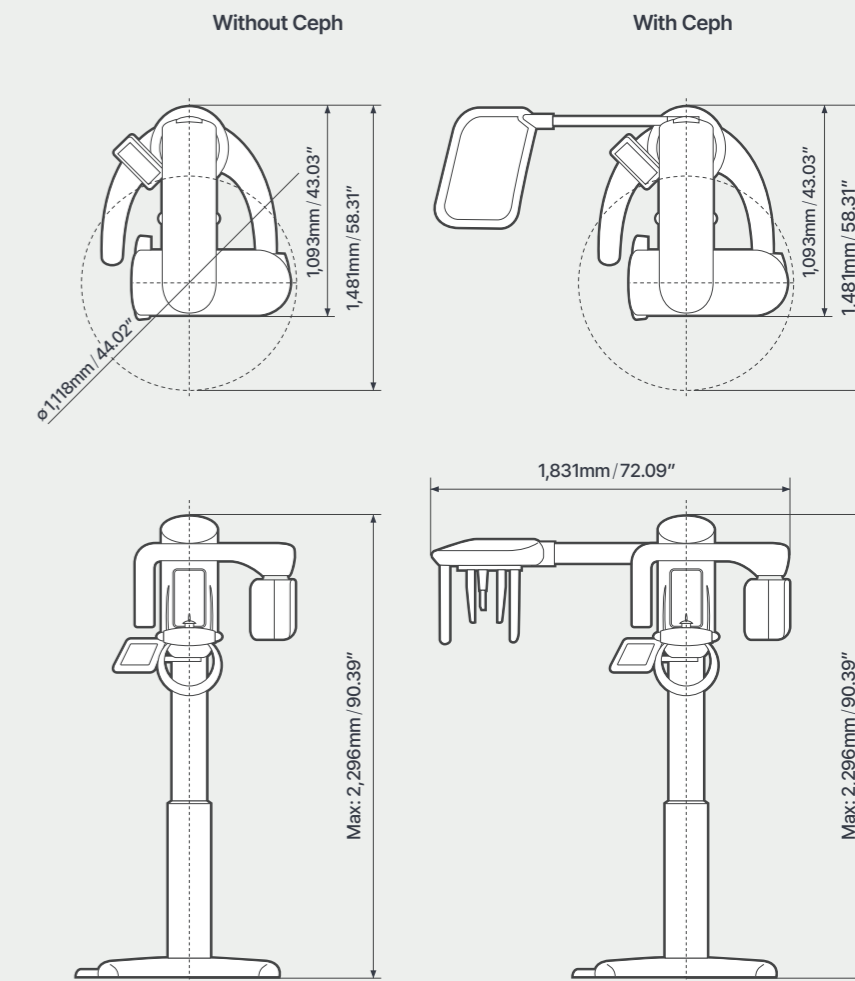
RAYSCAN α+ 120 (12×10)

RAYSCAN α+ 160 (16×10)

As well as three different cephalometry options:

One Shot Ceph (two sizes) and Scan Ceph.

## Specifications

| Type | Cone Beam CT, Panoramic, Cephalometric, Object scan (CT Impression)* |
|---|---|
| Patient Positioning | Standing (Wheelchair accessible) |
| Focal Spot | 0.5 mm |
| Tube Current | 1~17 mA |
| Tube Voltage | 60~90kV |

### CBCT

| FOV Size | Max. 16×10, 12×10, 8×8 (H) cm |
|---|---|
| Free FOV support | Yes |
| Scan Time | 4.9~14 sec |
| Voxel Size | 70~400μm |
| Fast Scan Mode | Yes |
| Object Scan Support* | Yes (CT Impression & Model scan) |

### Panoramic

| Image Size | Max. 15(H)cm (16×10) |
|---|---|
| Free FOV Support | Yes |
| Scan Time | Max. 13.9 sec |

### Cephalometric (Option)

| Type & Scan Time | SC (Scanning Ceph) Max. 20 sec |
|---|---|
| | OCS (One-Shot Ceph Standard) Max. 0.8 sec |
| | OCL (One-Shot Ceph Large) Max. 0.5 sec |

## Dimensions

**Without Ceph**

1,093mm / 43.03"
1,481mm / 58.31"
Ø 1,118mm / 44.02"

**With Ceph**

1,093mm / 43.03"
1,481mm / 58.31"

1,831mm / 72.09"

Max. 2,296mm / 90.39"

Max. 2,296mm / 90.39"

# FACE FORWARD

With RAY's FACE-DRIVEN DENTISTRY, you're not just adapting to the digital era-
you're leading it. Elevate your practice by embracing our three core pillars:
SCAN, DESIGN, MAKE.
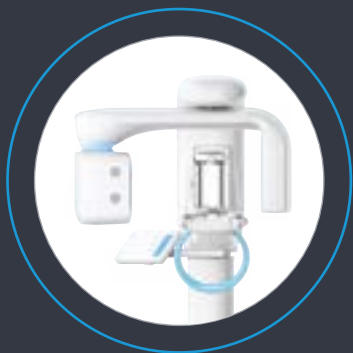
SCAN

DESIGN

MAKE

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