



ALL NEW  
RAYSCAN

# Getting ready for the Future of Dentistry

## 01 CBCT

- Superior image processing
- Super high resolution
- Incomparable Free FOV

## 02 Panoramic

High-definition image quality

## 03 Cephalometric

One Shot Ceph and other option

## 04 Object scan

Digital production of dental appliances in combination with RAYDENT Solution

## & Rayguard Protection

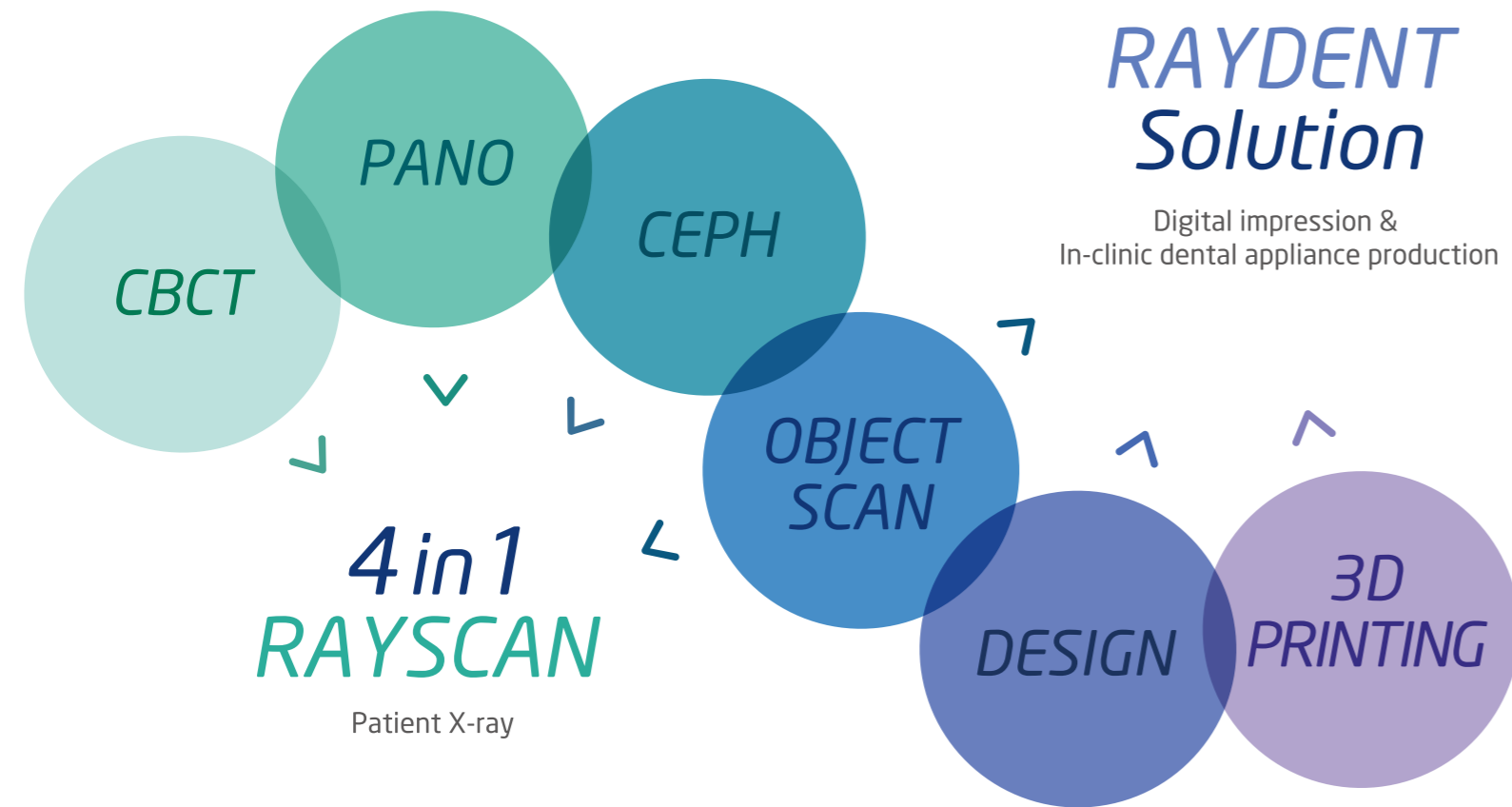
Real-time monitoring of your system to ensure optimal functionality



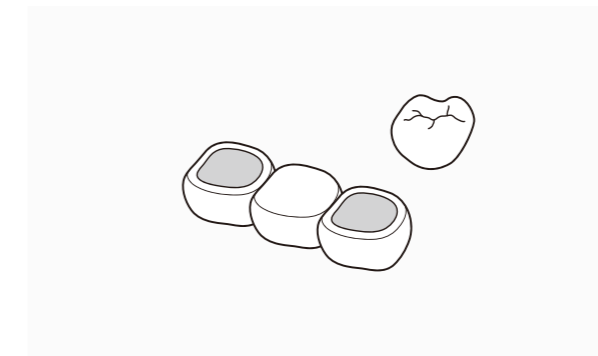
4 in 1  
Digital X-ray system

# Getting ready for the Future of Dentistry

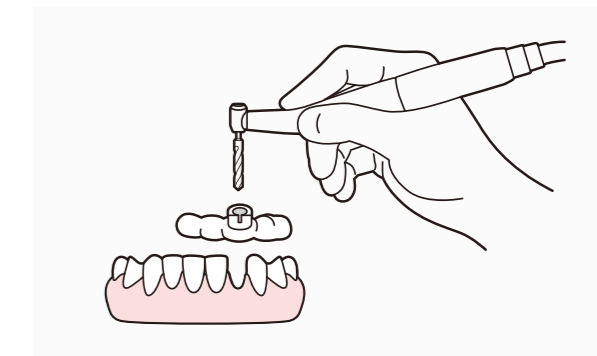
RAYSCAN can be used by itself as 3 in1 digital X-ray(CBCT, PANO, CEPH) or 4 in1 in combination with RAYDENT Solution for in-clinic production of dental appliances. (eg. Temporary crown & bridge, Implant surgical guide, ENDO guide, Tooth aligner, etc)



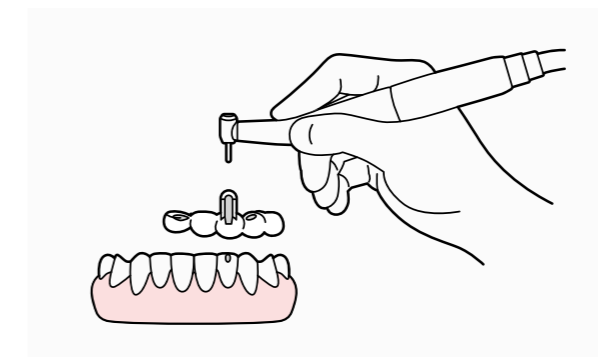
Temporary crown & bridge



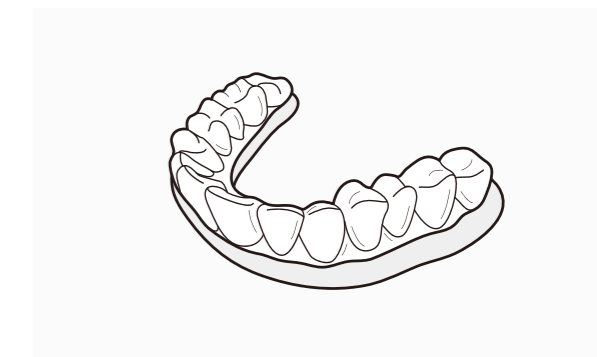
Implant surgical guide



ENDO guide



Tooth aligner



# 01 CBCT Superior image processing

When you need to scan faster...

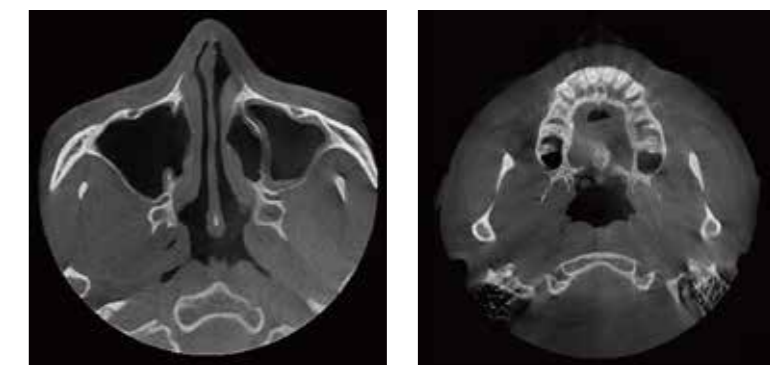
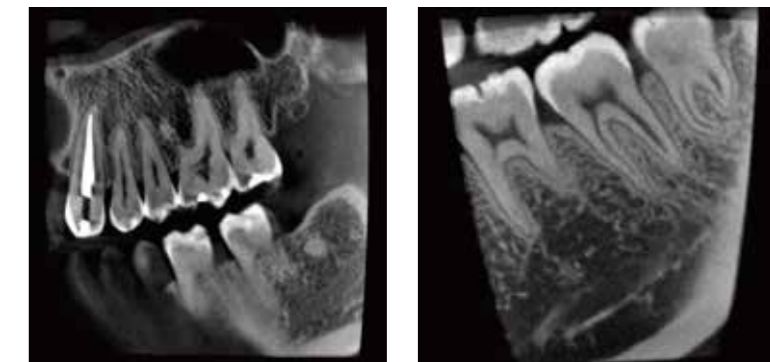
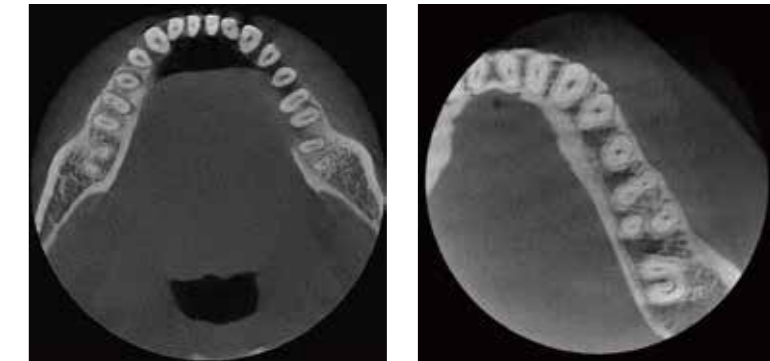
Down to **4.9 second** scan and **4 second** 3D reconstruction !

When you need to see more detail...

Up to **70  $\mu\text{m}$**  with a **focused field of view** !

When you need to see more anatomy...

Up to **16 cm** diameter field of view reconstructed in **6 seconds** !



# 01 CBCT Super high resolution

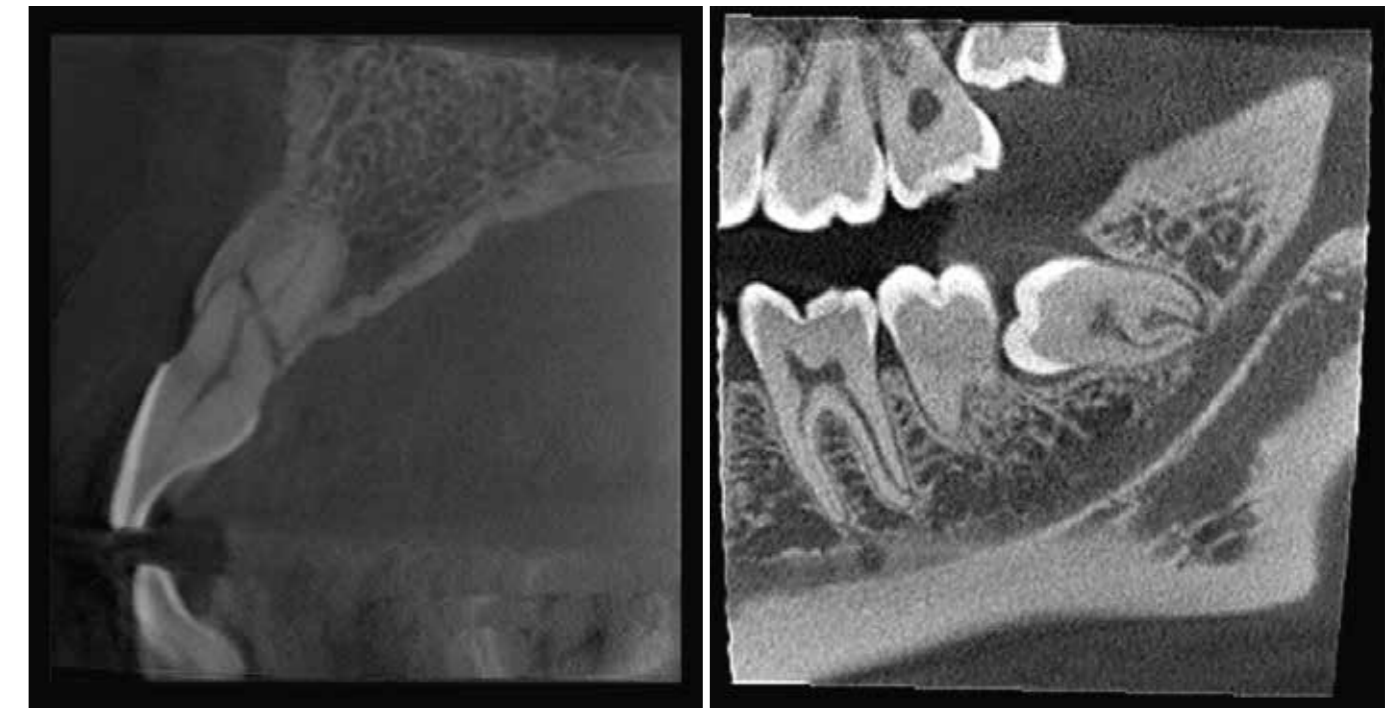
When you need very precise detail...  
Up to 70 $\mu$ m Scan mode for endodontics!

Highest Resolution Dental CBCT Images



## More Detail & Less Time

See more detail using a high-resolution CT image in a specific area.  
Do more procedures in less time.



# 01 CBCT Incomparable Free FOV

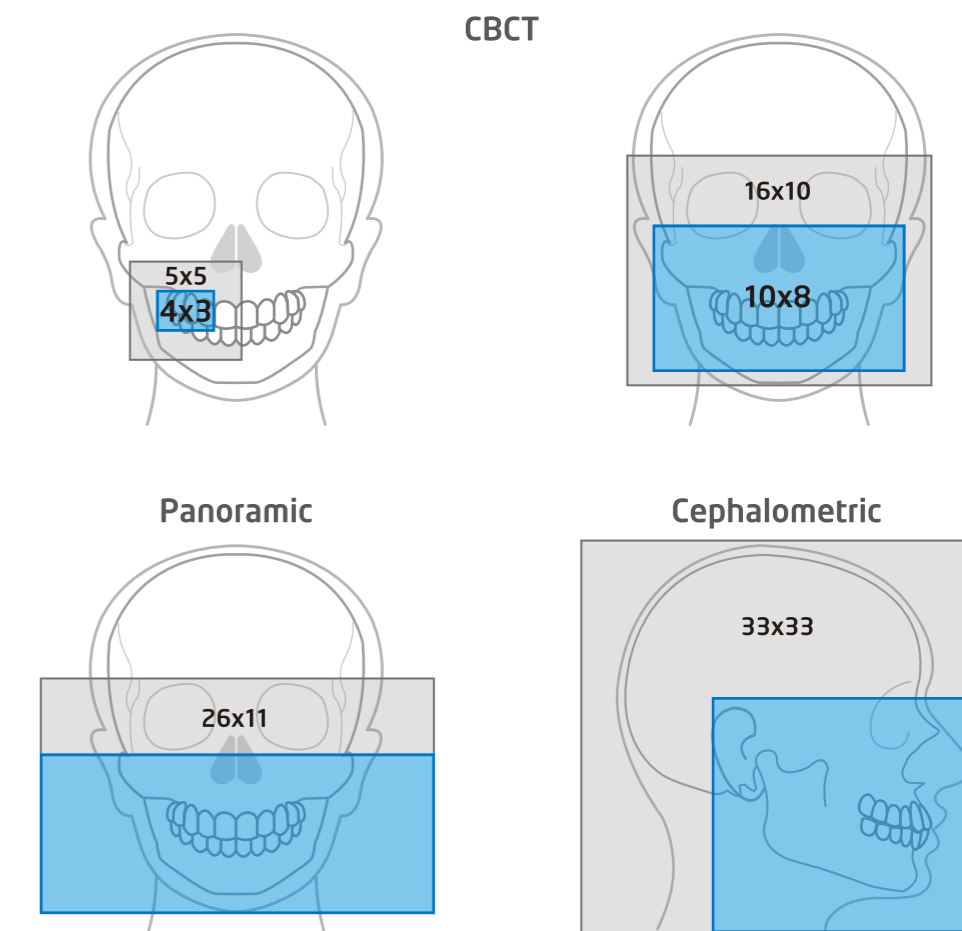


**Visible X-ray Guide of RAYSCAN Alpha plus indicates the location of the area to be scanned.**

The user can conveniently adjust the FOV according to the purpose of the treatment.

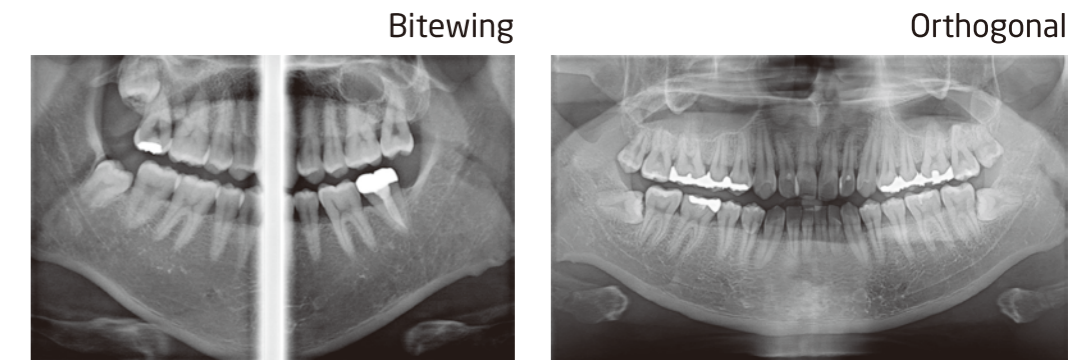
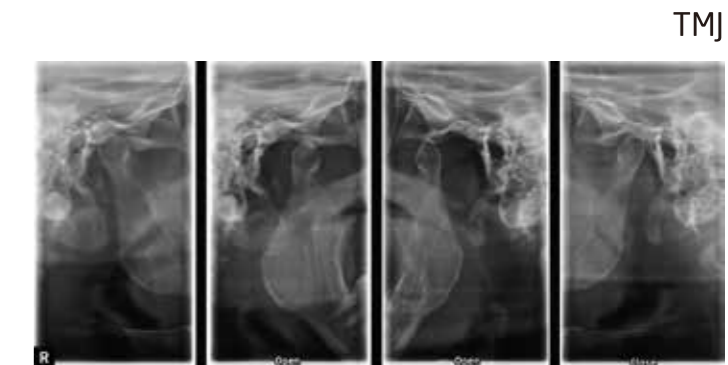
## Dose Reduction

See where you focus  
with Light guided free FOV



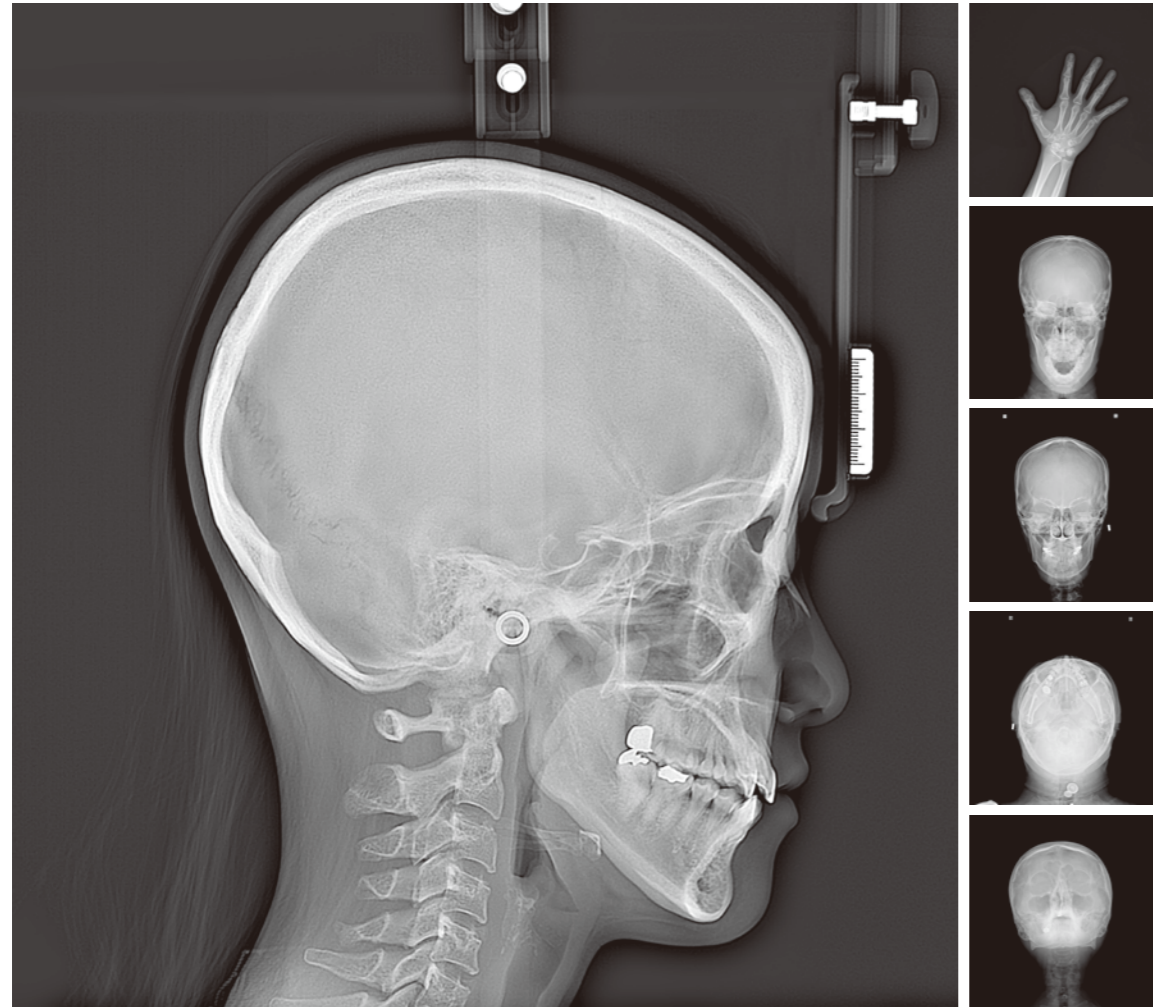
# 02 Panoramic

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



# 03 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 smaller overall unit footprint.

## One Shot Cephalometry

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



Standard



Large

## Scanning Cephalometry

Our scanning ceph module allows clinicians to upgrade their diagnostic capabilities while keeping costs to a minimum.



# 04 Object scan in combination with RAYDENT Solution

Object scan is a breakthrough 3D scanning method to acquire 3D data from impressions and plaster models.



RAYSCAN Object scan

- Digital production of dental appliances in clinic or lab.
- Applications include Crown & bridge, Implant surgical guide, ENDO guide, Tooth aligner, etc.
- On-line design supports.
- Seamless workflow from CT scanning to 3D printing.



RAYDENT designer



RAYDENT Printer



4. Results  
Dental appliances

1. Scan  
CT impression scan

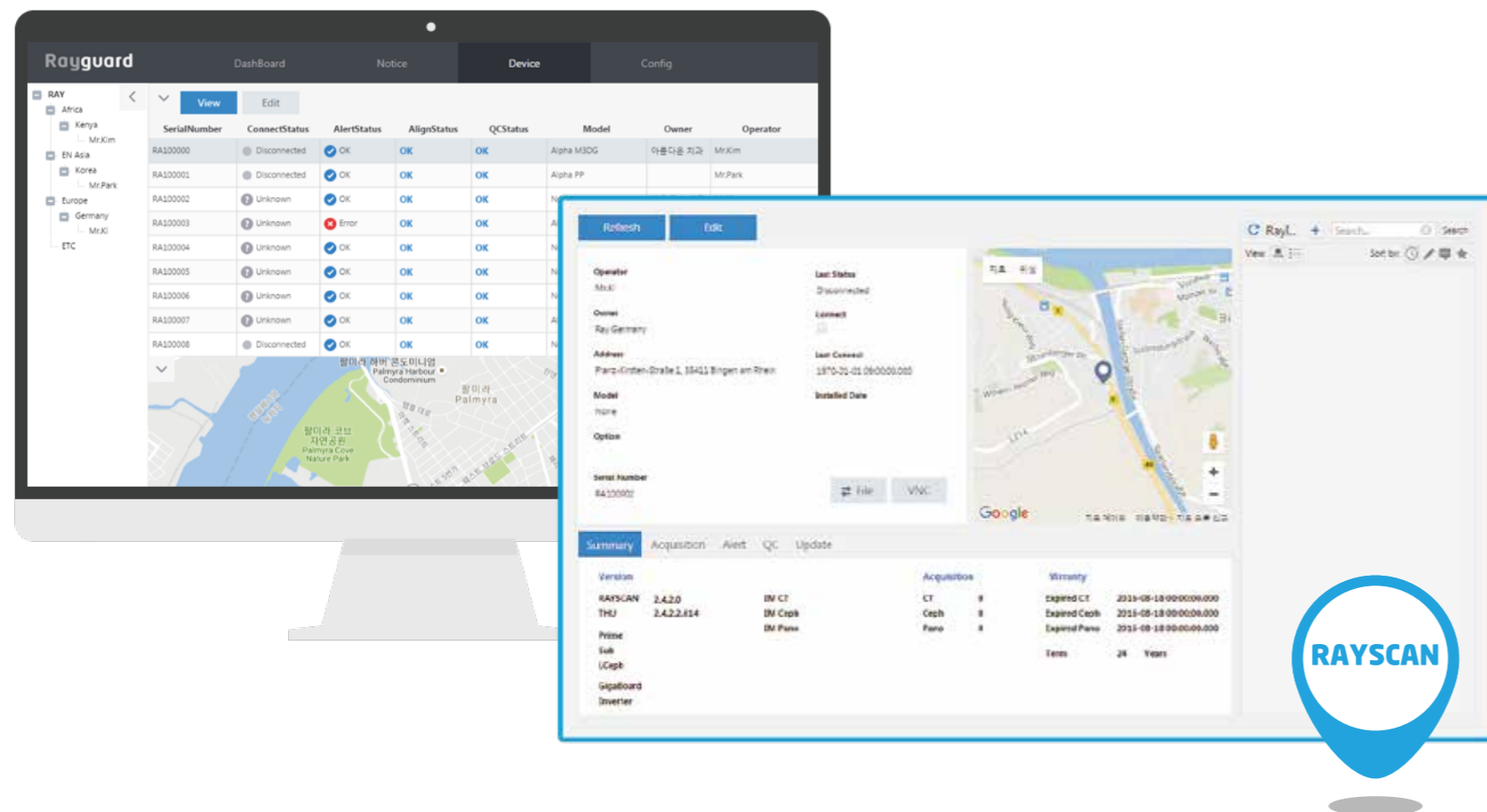
2. Design  
Simple & easy CAD

3. 3D Printing  
Fast & accurate 3D Printing

# & Rayguard Protection

## Real-time monitoring to ensure optimal functionality

Rayguard is a real-time monitoring service to take care of your RAYSCAN 24/7. It provides peace-of-mind by resolving your issues before you even report it. What you get is immediate technical supports.



# Specifications of RAYSCAN

	$\alpha$ (P/SC/OCS/OCL)	$\alpha$ (3D/SM3D/M3DS/M3DL)	$\alpha+130$ (RCT700)	$\alpha+160$ (RCT700)	
Type	Panoramic, Cephalometric	Cone Beam CT, Panoramic, Cephalometric			
Patient positioning	Standing (Wheelchair accessible)				
Focal spot	0.5				
Tube current	4~17mA				
Tube voltage	60~90kVp				
<b>CBCT</b>					
FOV size	Pano / Ceph only	10X10cm, 9X5cm	Max. 13x10cm	Max. 16x10cm	
FOV support		Multi FOV	Free FOV		
Voxel size		100~300 $\mu$ m	70~300 $\mu$ m		
Scan time		5.8~14sec	4.9~14sec		
Fast scan mode		Yes			
Object scan support		Yes (Option)			
<b>Panoramic</b>					
Image size	Max. 15cm (H)				
Scan time	Max.14sec				
Free FOV support	No			Yes	
<b>Cephalometric</b>					
Option type	None, SC, OCL, OCS				
Free FOV support	No			Yes	
<b>Cephalometric (Option)</b>					
Type	SC (Scanning Ceph)	OCS (One-shot Ceph Standard)	OCL (One-shot Ceph Large)		
Image size	Max. 26x22.5cm	Max. 30x25cm	Max. 33x33cm		
Scan time	3.8~9.9sec ( $\alpha$ ) 3.7~19.8sec ( $\alpha+$ )	0.6 / 0.8sec	0.2 / 0.5sec		

IDEA BRONZE



REDDOT WINNER



GD BEST OF BEST



GD AUSTRALIA



**Ray Co., Ltd.** 

332-7, Samsung1-ro, Hwaseong-si, Gyeonggi-do, 18380, Korea

**Phone** +82.31.605.1000

**Email** ray\_overseas@raymedical.co.kr

**Web** www.raymedical.com

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Design and specifications are subject to change without notice