5 in 1

PANO / CEPH / CBCT

CT IMPRESSION / 3D FACE SCAN

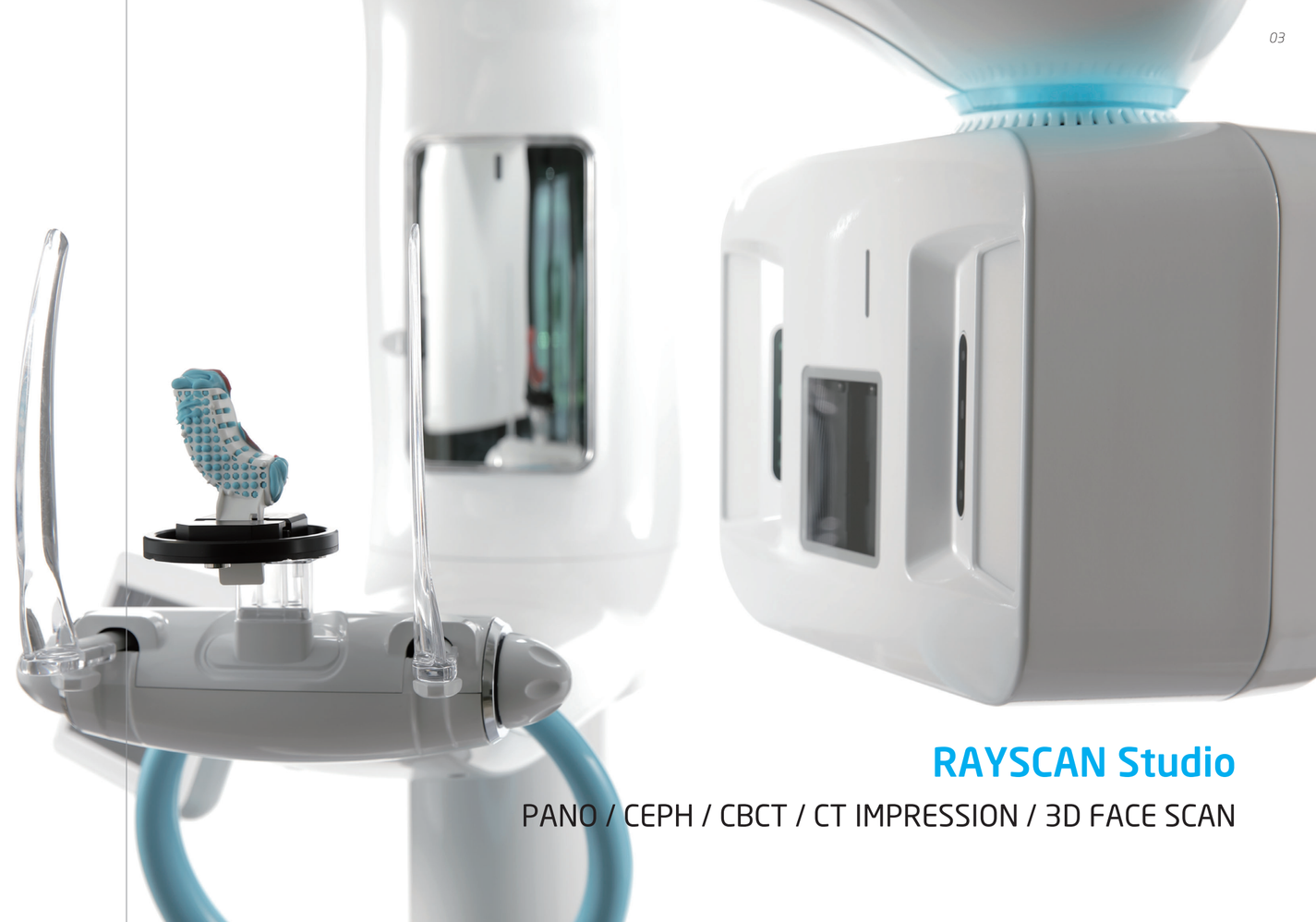
RAYSCAN Studio

THE CHALLENGES

Up-to-date 5 in 1 CBCT

RAYSCAN Studio is the outcome of our challenges for decades.
It is created with the power to scan and manage all patient information for diagnostics and treatments in dental clinics for the upcoming digital dentistry.

The new CBCT will give not only the fundamental insight into the patients' diagnosis by creating 3D Virtual Patient but also tools for predictable, safe and patient-friendly treatment planning.
Once you have your own 3D Virtual Patient, there is no limit in full digital analysis.

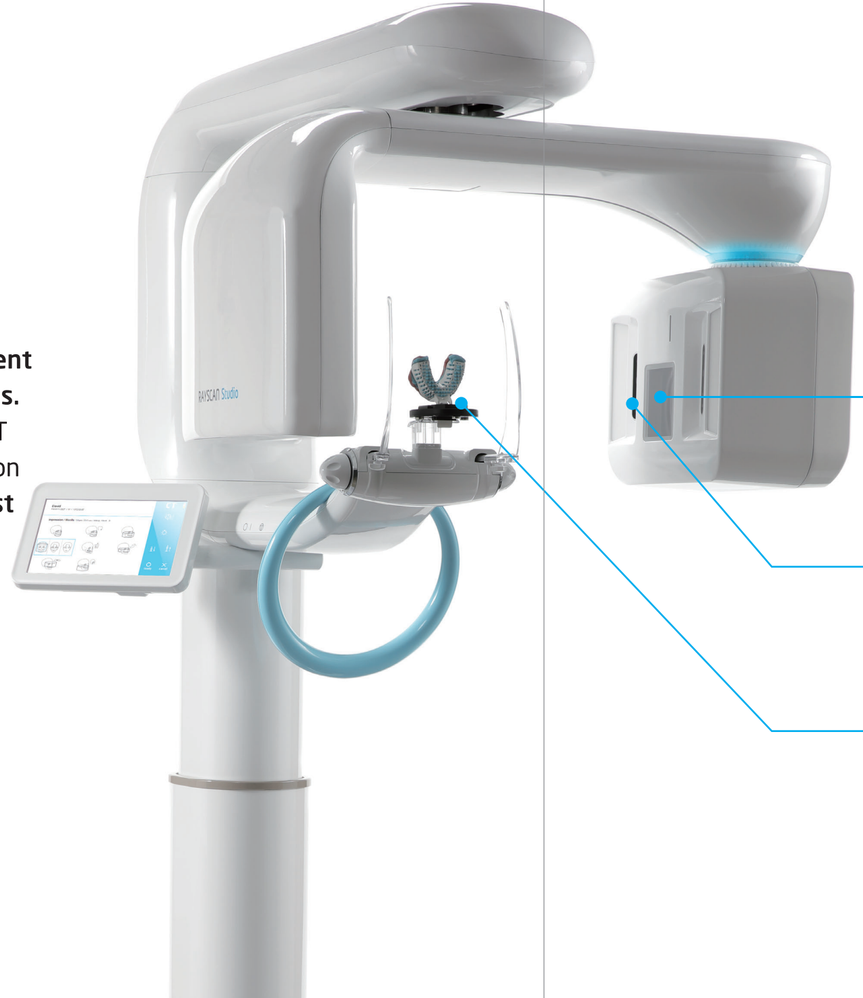


RAYSCAN Studio

PANO / CEPH / CBCT / CT IMPRESSION / 3D FACE SCAN

THE FUTURE
RAYSCAN Studio

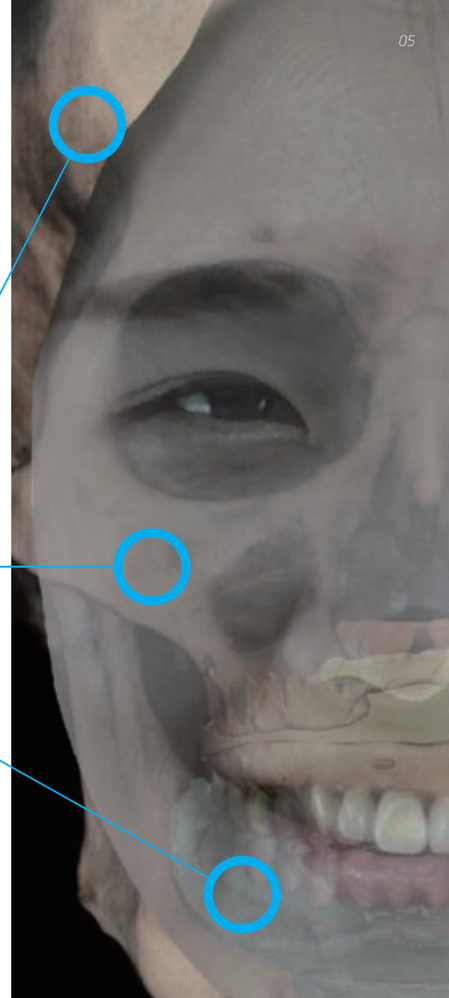
We've been dreaming of a unique CBCT which integrates CBCT, 3D Face and CT impression (intraoral data) scan into one perfect piece for **an effective and predictable treatment planning and production of pre-planned dental appliances.** We have also prepared that the data scanned from the CBCT to be transferred to 3D printing system for a rapid production of dental appliances in your clinic in order to deliver **the best quality patient care** at the most suitable price and time.



CBCT
- Max. 20x20 FOV
- Light-guided FOV

3D Face scan
- Real 3D depth camera
- Independent 3D photo taking

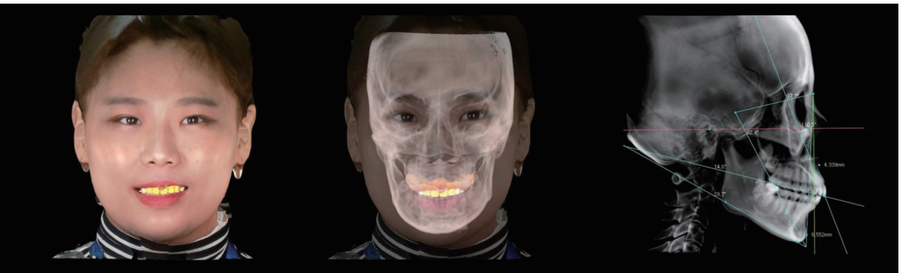
Object scan (CT Impression)
- Handy scan process
- Impression / Model scanning
- Auto STL conversion
- Open STL format

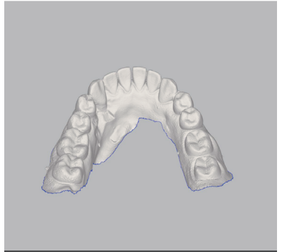


THE VERSATILITY
One for 3D & 2D

RAYSCAN Studio, the 5 in 1 system, is used for different purposes. Market-proven high quality images of 2D Panoramic/2D Cephalometric are provided. 3D CBCT can be used for the conventional CT diagnosis, 3D cephalometric analysis, etc. By superimposing all 3D scan data, you will open a new chapter in treatment planning.

Treatment planning on 3D Virtual Patient





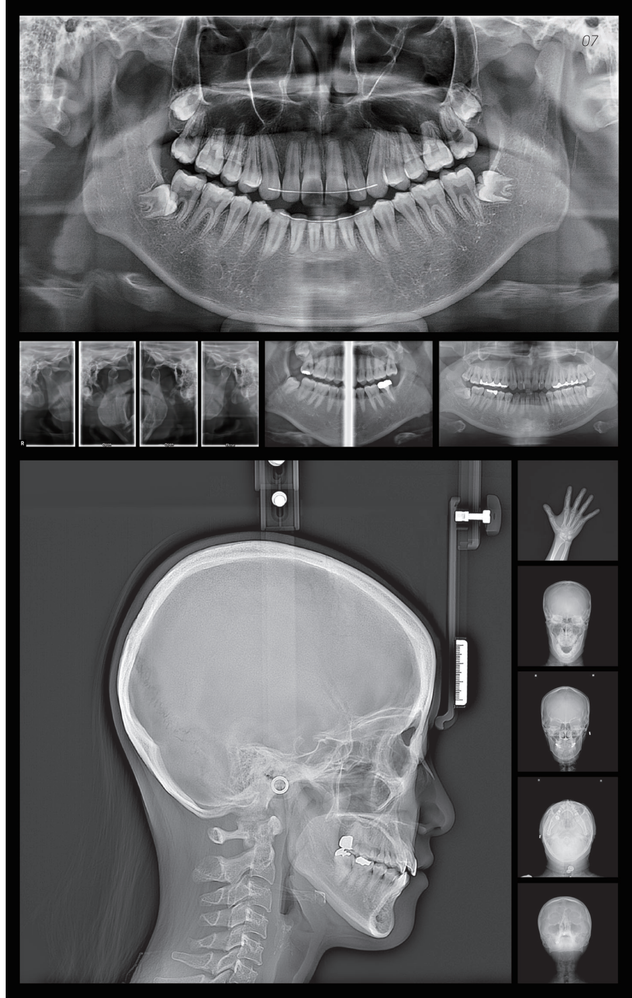
3D Object scan (CT Impression)
- Handy scan process
- Impression/Model scanning
- Auto STL conversion
- Open STL format

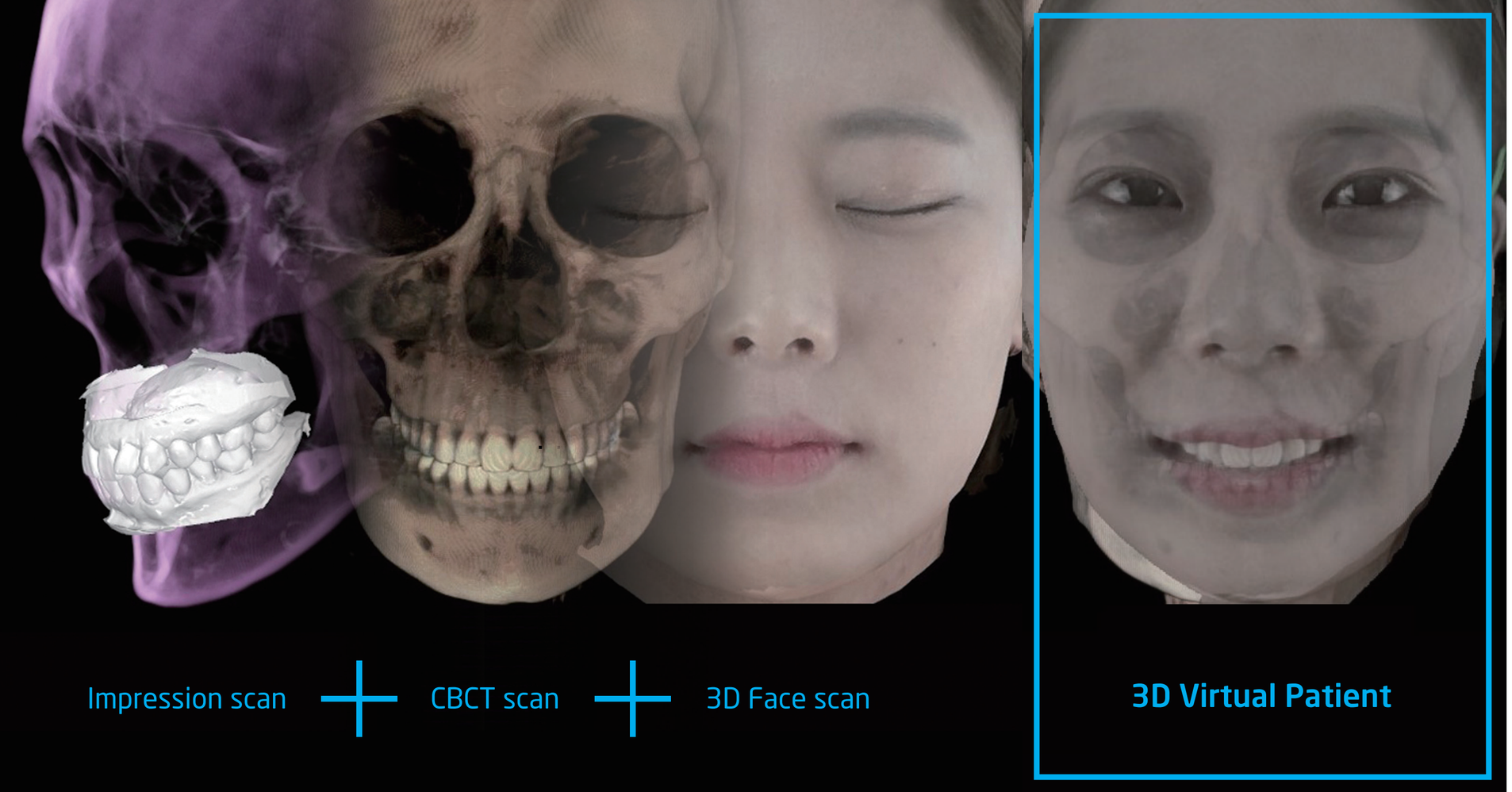
2D Panoramic
- High-definition image
- Standard, TMJ, Bitewing, Orthogonal, etc

3D Face scan
- Real 3D depth camera
- Independent 3D photo taking

2D Cephalometric
- One-shot and scanning Ceph
- LAT, PA, Carpus, SMV, Waters, Reverse Towne, etc

3D CBCT
- Max. 20x20 FOV
- Light-guided FOV
- Jaw, Facial, Endo, TMJ, Sinus, Airway





3D VIRTUAL PATIENT

Team-up of all 3D scan data

RAYSCAN Studio is designed to scan and put together all patient information (Impression, CBCT and 3D Face scan) in one system.
There is no need to have an intraoral scanner, a face scanner or a CT separately.
You can avoid complications, which could occur when combining scan data acquired from different systems.
Superimposition of all 3D scan data and creation of 3D Virtual Patient become easier and more precise than ever when you have this 5 in 1 CBCT.

THE GOAL
Perform Predictable Treatment Planning

Once you have your own 3D Virtual Patient, there is no limit in full digital analysis.
There is also unlimited number of applications that you can start in your clinic.
You can perform predictable, safe and patient-caring treatment planning.

Treatment planning on 3D Virtual Patient leads to the design of dental appliances such as teeth, dental model, surgical guide, etc.



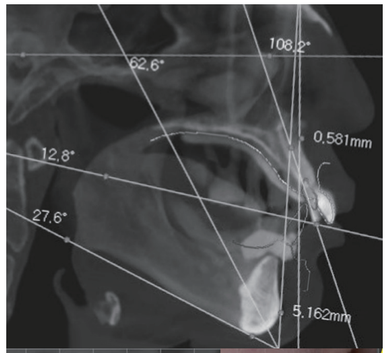

CLINICAL APPLICATION

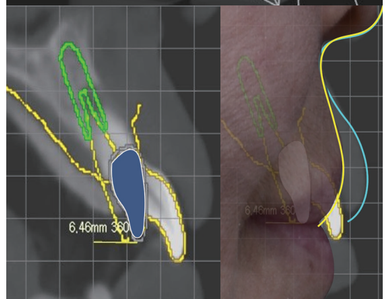
Initial analysis

Create virtual patient using
CBCT, facial scan & model

Facial analysis

Analyze facial pattern & identify current
problems with CT based cephalometric

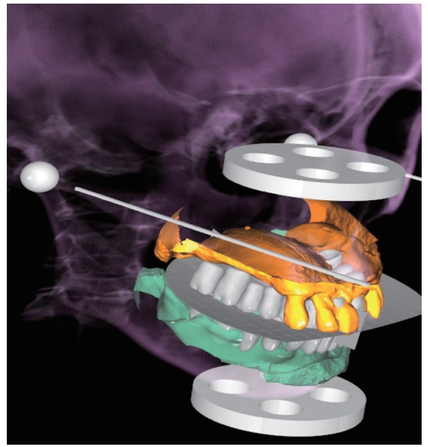


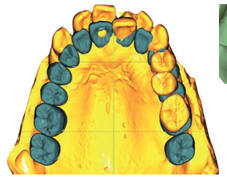


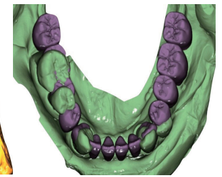
Digital Oral Design

Digital mounting & EZ wax-up

Decide index teeth for digital wax-up
& mounting





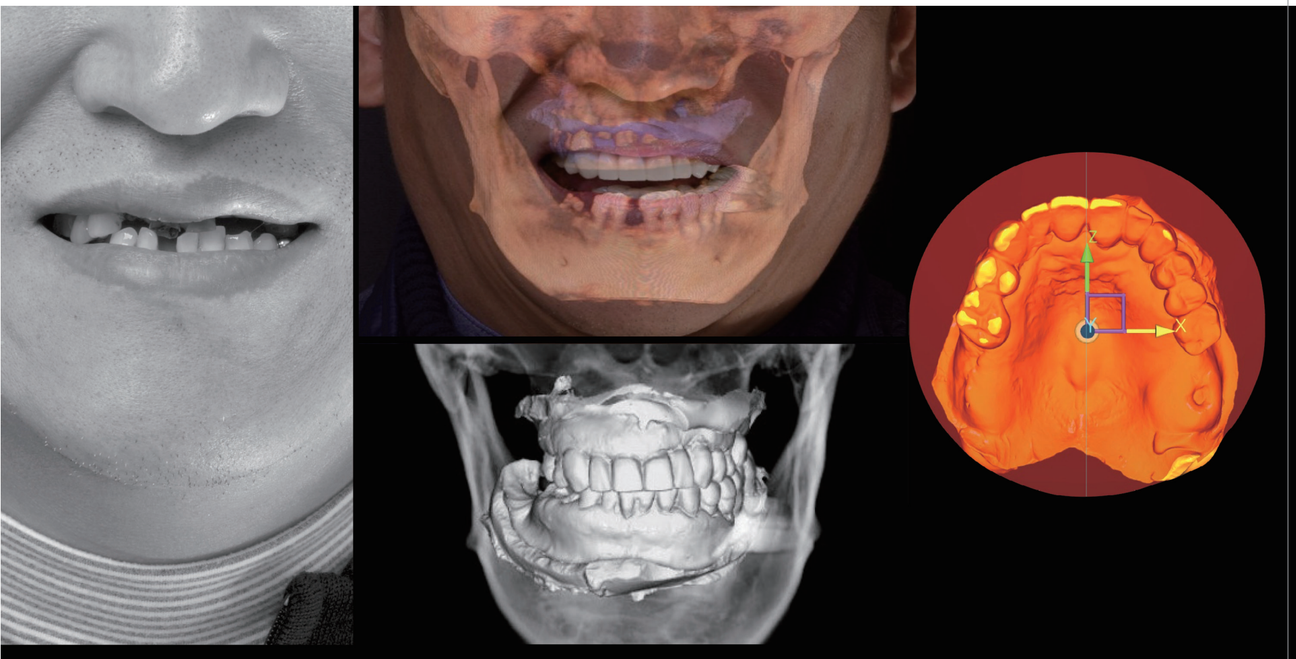


Oral design simulation

Treatment result

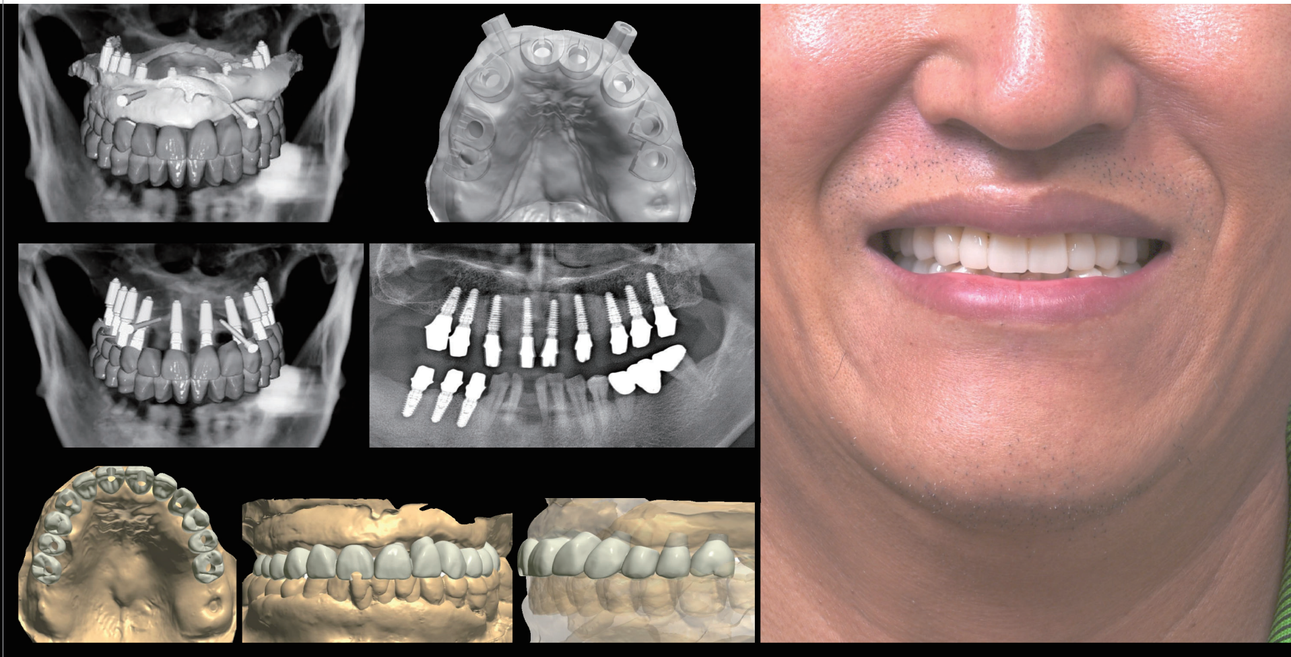
CLINICAL APPLICATION

Implant design allows accurate planning and analysis for faster, easier and smarter implant surgery.



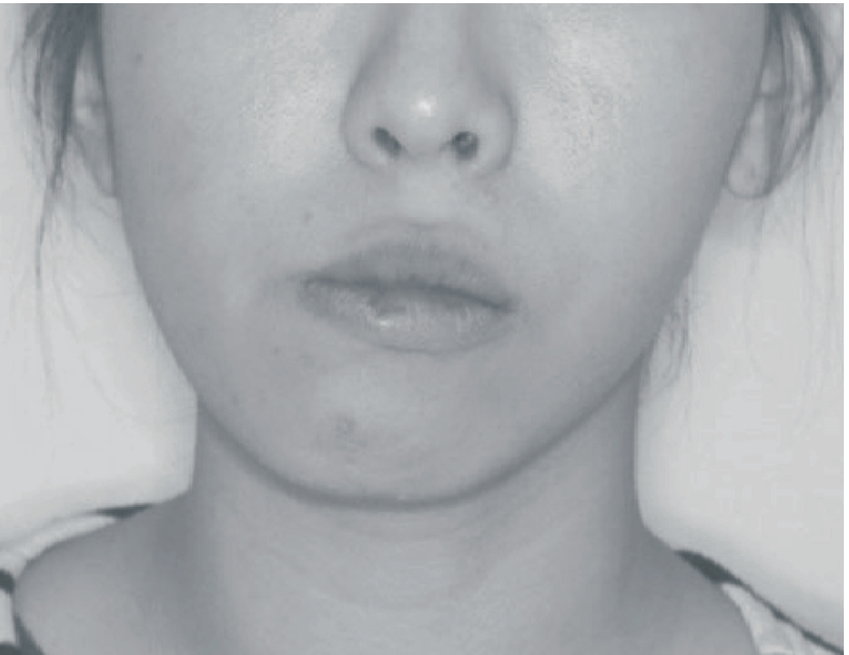
Digital Implant Design

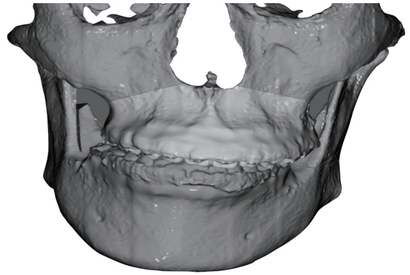
Design of surgical guide, abutment and teeth makes it possible.

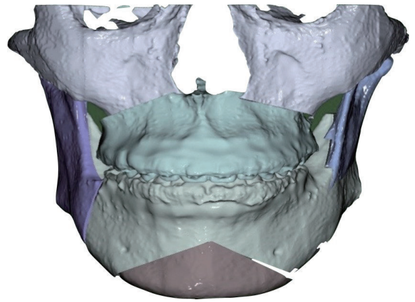


CLINICAL APPLICATION

FACE GIDE™ provides accurate bone and tissue analysis, allowing precision planning for safe, predictable, and high-quality orthognathic surgery.

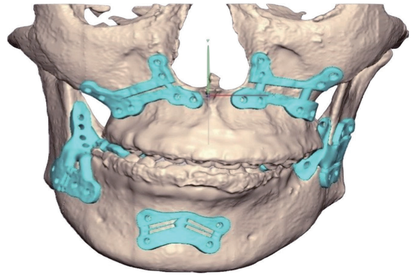


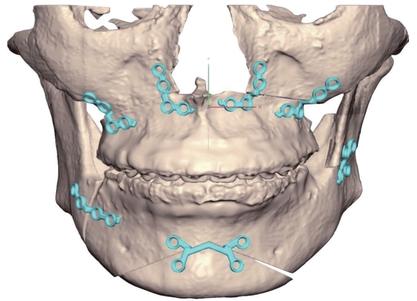


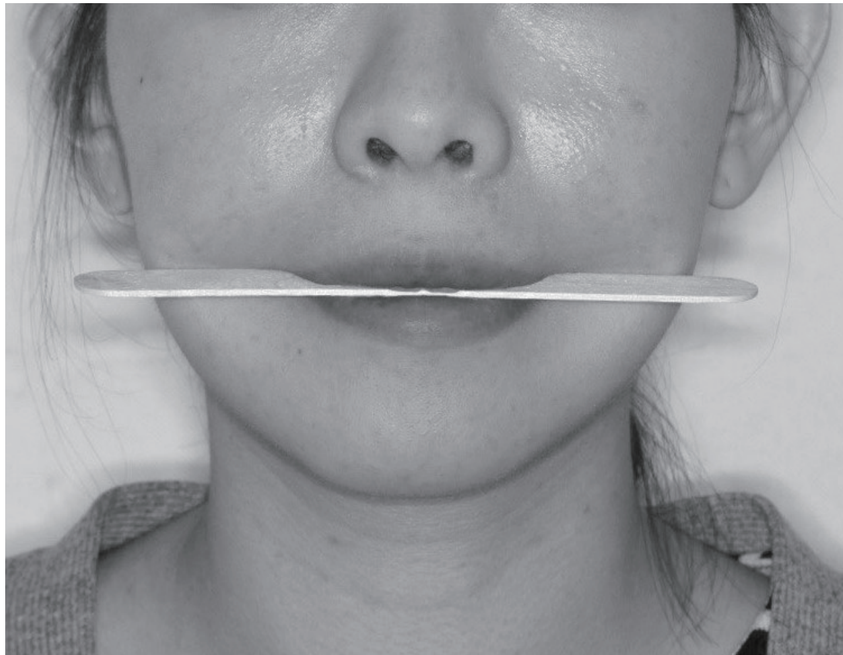


Digital Orthognathic Design

Once the surgical plan is confirmed, a SAW-GUIDE and FACE-PLATE are provided to facilitate precise orthognathic surgery within a short time. These will minimize risks and post-operative complications.

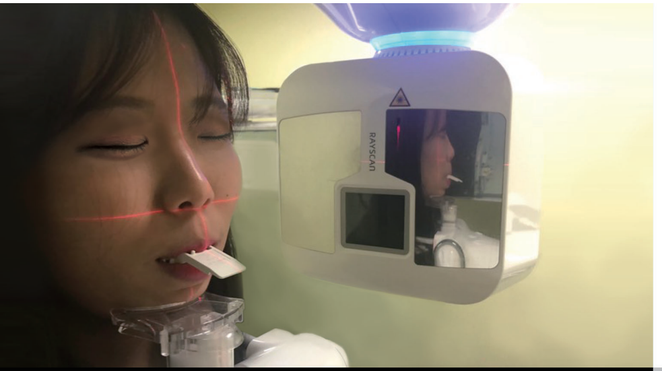


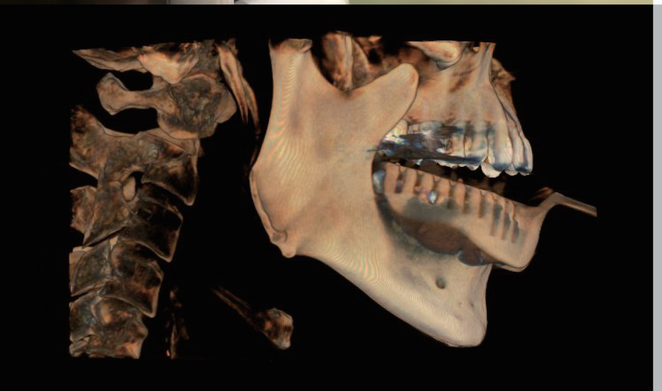




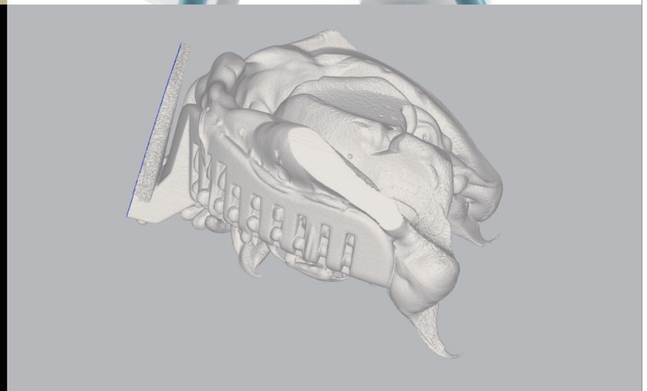
DIGITAL TRAY™

Digital treatment planning



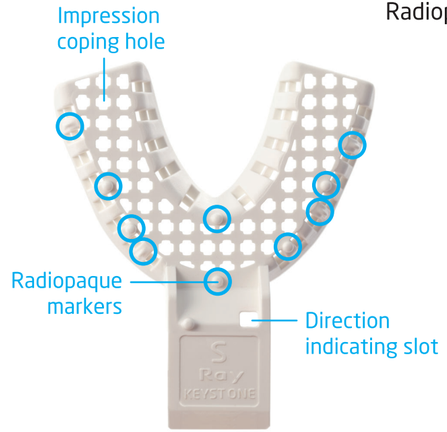


CT Impression scan

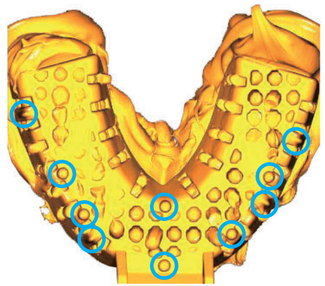


The unique tray is specially designed for accurate digitalization of patient dentition information.

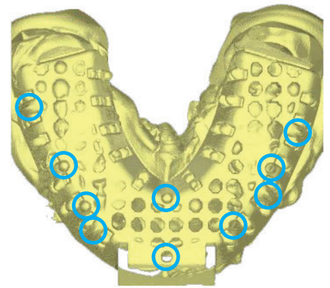
Its radiopaque material and structure are easily distinguishable in X-ray CT.
Not only does it capture negative imprint of hard teeth/soft tissues
but also provides positioning information in the patient's mouth.



Radiopaque markers shown on the tray, impression STL data and CT data



Impression STL data



CT data

Specifications

* Availability varies by country and its regulation.
Item may be optional or not available.
Contact your sales representative for details.

RAYSCAN Studio (RCT800)

Type	Cone Beam CT, Panoramic, Cephalometric, Object scan (CT Impression)*, 3D Face scan*
Patient positioning	Standing (Wheelchair accessible)
Focal spot	0.5
Tube current	4~17mA
Tube voltage	60~90kVp

CBCT		Panoramic		Cephalometric	
FOV size	Max. 20x20cm	Image size	Max. 12cm (H)	Option type	None, SC, OCS, OCL
Free FOV support	Yes	Free FOV support	Yes	Free FOV support	Yes
Scan time	4.9~16sec	Scan time	Max. 14sec		
Voxel size	70~300μm				
Fast scan mode	Yes				
Object scan support*	Yes (CT Impression and model scan)				
3D Face scan support*	Yes				

Cephalometric (Option)

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	3.7~19.8sec	0.6 / 1.6sec	0.2 / 0.5sec

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