



# The First Step into Digital Dentistry

## A Guide to Intra Oral Scanning

# Contents

1. Intra Oral Scanner (BTS / IOS / BOS)
2. Dentium Dental Clinic Process and Clinical Case

# BTS

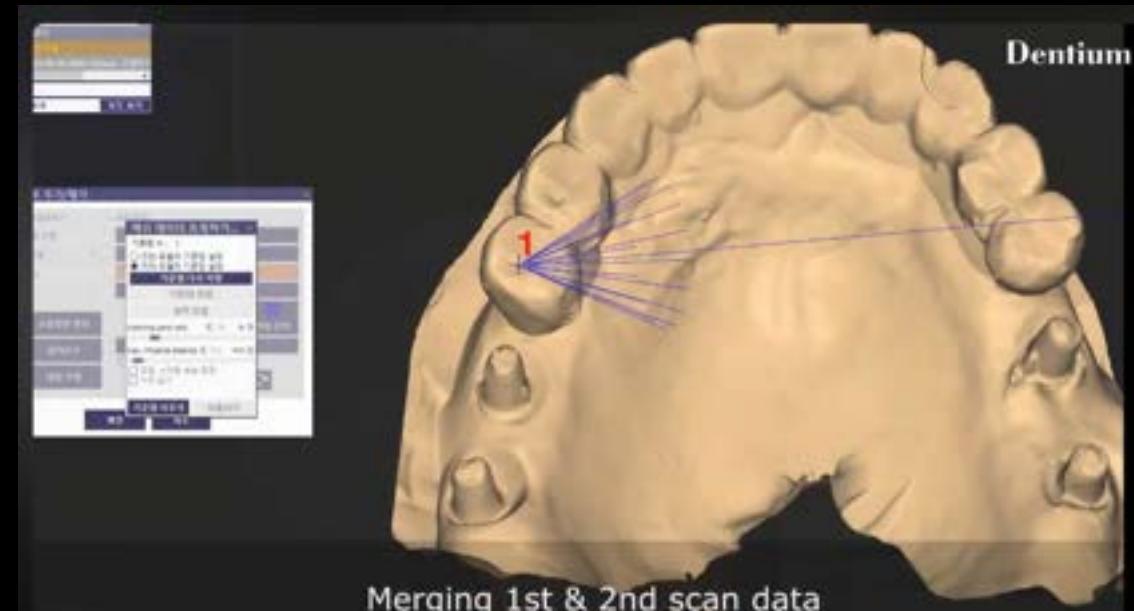
## Bite Tray Impression Scanning



Impression Taking  
&  
Rubber Trimming



IMP SCAN



Merging 1st & 2nd scan data

# Dentium Dental Clinic **BTS** Process

## 1. Bite Tray Selection & Simulation



Full - Arch



Anterior - Exd



Anterior



Posterior – Metal



Posterior - Original

# Dentium Dental Clinic **BTS** Process

## 1. Bite Tray Selection & Simulation



Metal frame  
→ Enhanced Stability↑  
→ Minimal Distortion

Posterior - **Metal**

# Dentium Dental Clinic **BTS** Process

## 1. Bite Tray Selection & Simulation



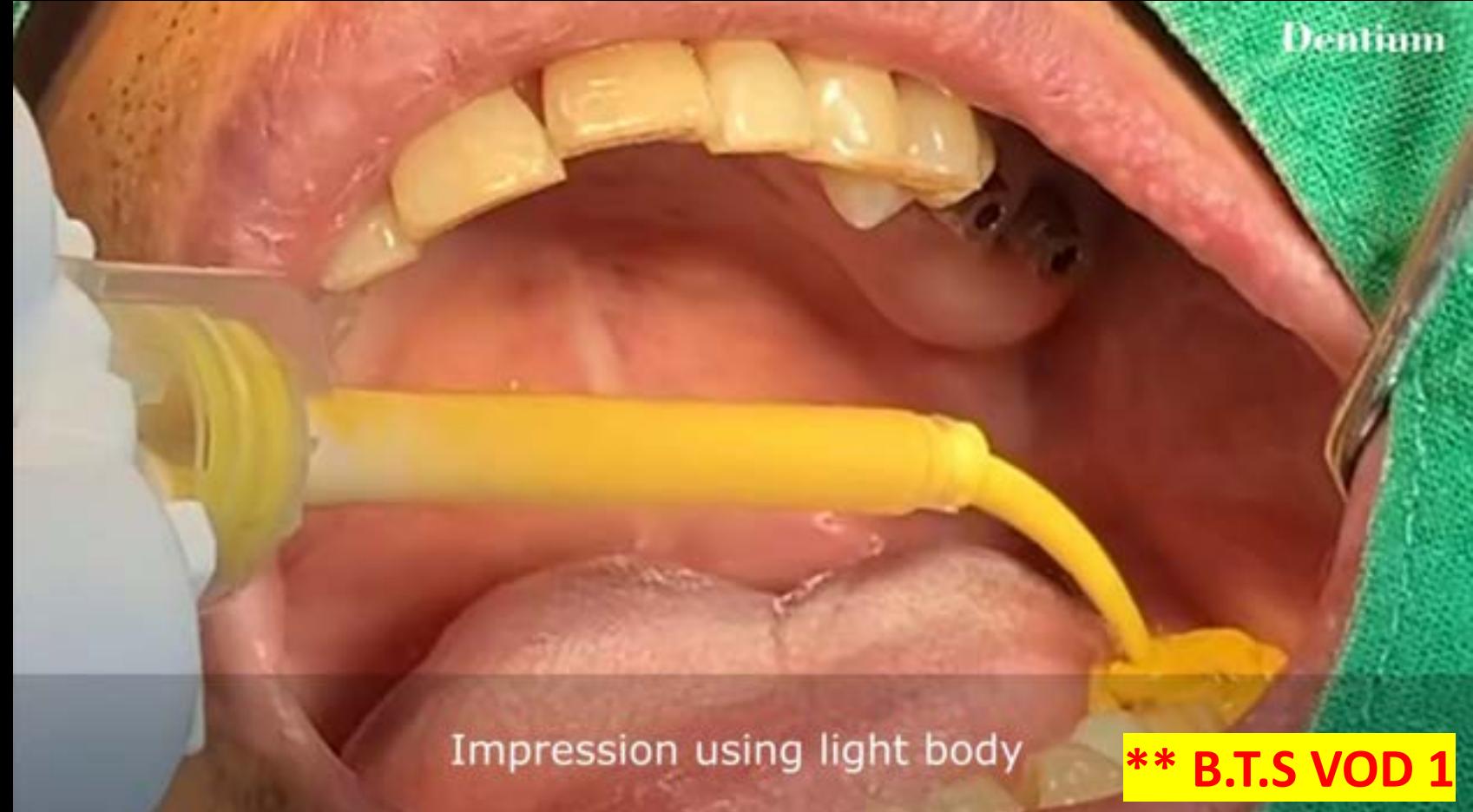
← Name Tag 

Posterior - **Metal**

# Dentium Dental Clinic **BTS** Process

Full VOD

1. Bite Tray Selection & Simulation
2. Light body & Putty IMP
3. Buccal & Lingual Molding
4. Jaw Fixation



# Dentium Dental Clinic **BTS** Process

## \*\*Consistency of Rubber Impression Material\*\*

Class I (Putty): A dough-type material with minimal flow

Class II (Heavy Body): High-viscosity material with limited flow

Class III (Medium Body = Regular Body): Standard flow material

Class IV (Light Body): Very low-viscosity material for detailed impressions

Light body > medium body (= Regular) > Heavy body > Putty

# Dentium Dental Clinic **BTS** Process

## \*\*Consistency of Rubber Impression Material\*\*

**Class I (Putty): A dough-type material with minimal flow**

Class II (Heavy Body): High-viscosity material with limited flow

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Class IV (Light Body): Very low-viscosity material for detailed impressions

Light body > medium body (= Regular) > Heavy body > **Putty**



# Dentium Dental Clinic IOS Process

## Shining 3D Aoralscanner

1 Wireless & Lightweight

2 **Multiple tip options**



Aoralscan3 Wireless



Standard  
→ Main Tip



Mini  
→ Posterior teeth  
or  
Patients with a small oral cavity

# Dentium Dental Clinic IOS Process

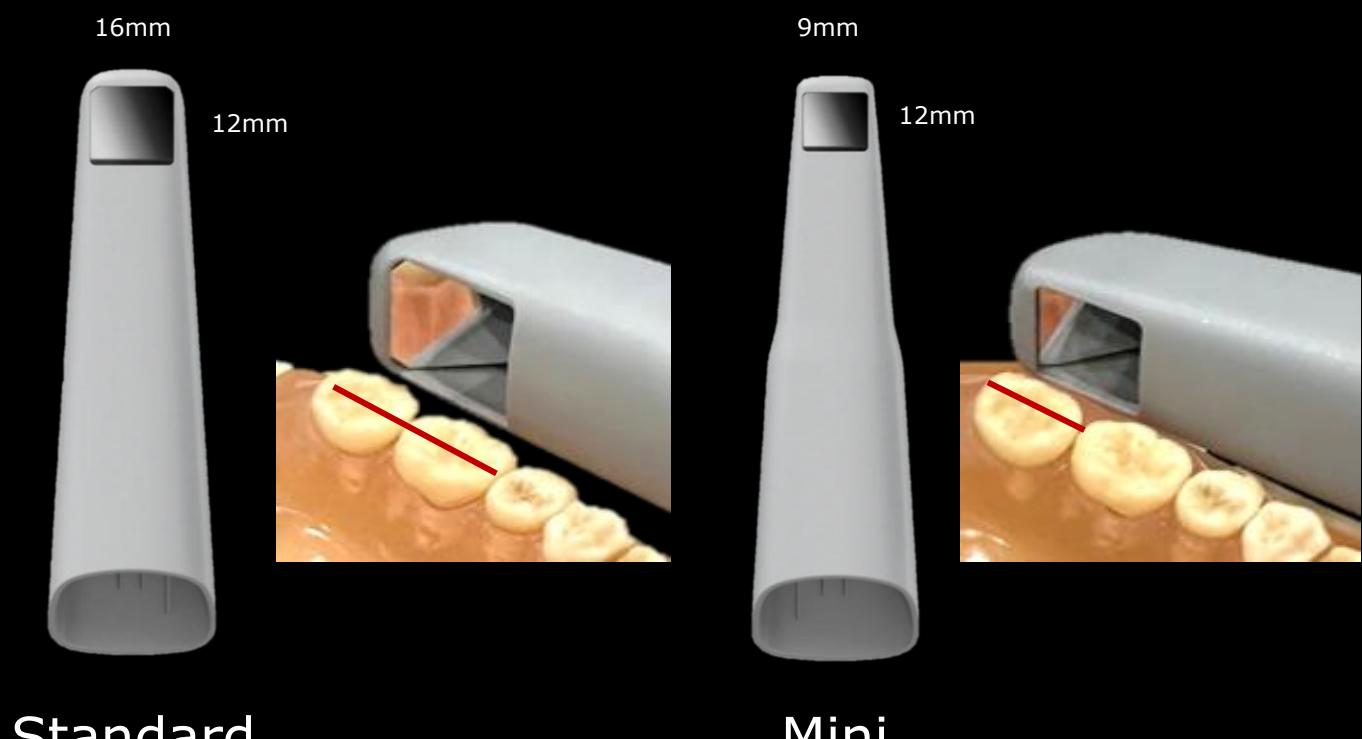
## Shining 3D Aoralscanner

1 Wireless & Lightweight

2 **Multiple tip options**



Aoralscan3 Wireless



# Dentium Dental Clinic IOS Process

## Shining 3D Aoralscanner

- 1 Wireless & Lightweight
- 2 Multiple tip options
- 3 **Motion**



ON/OFF Button  
&  
Motion Button

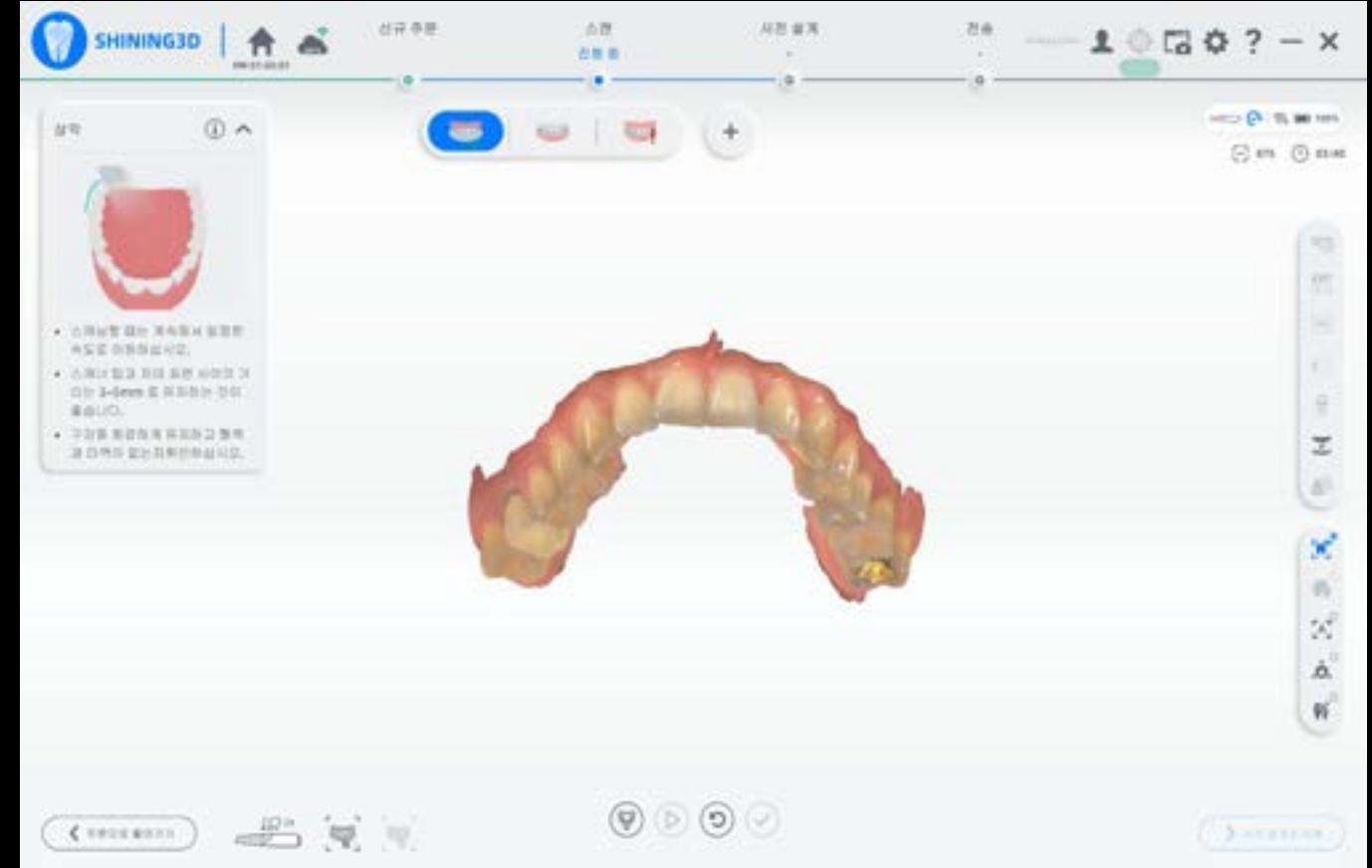


Aoralscan3 Wireless

# Dentium Dental Clinic IOS Process

## Shining 3D Aoralscanner

- 1 Wireless & Lightweight
- 2 Multiple tip options
- 3 **Motion**



Aoralscan3 Wireless

# Dentium Dental Clinic IOS Process

## Shining 3D Aoralscanner

- 1 Wireless & Lightweight
- 2 Multiple tip options
- 3 **Motion**



“Hold~”

Aoralscan3 Wireless

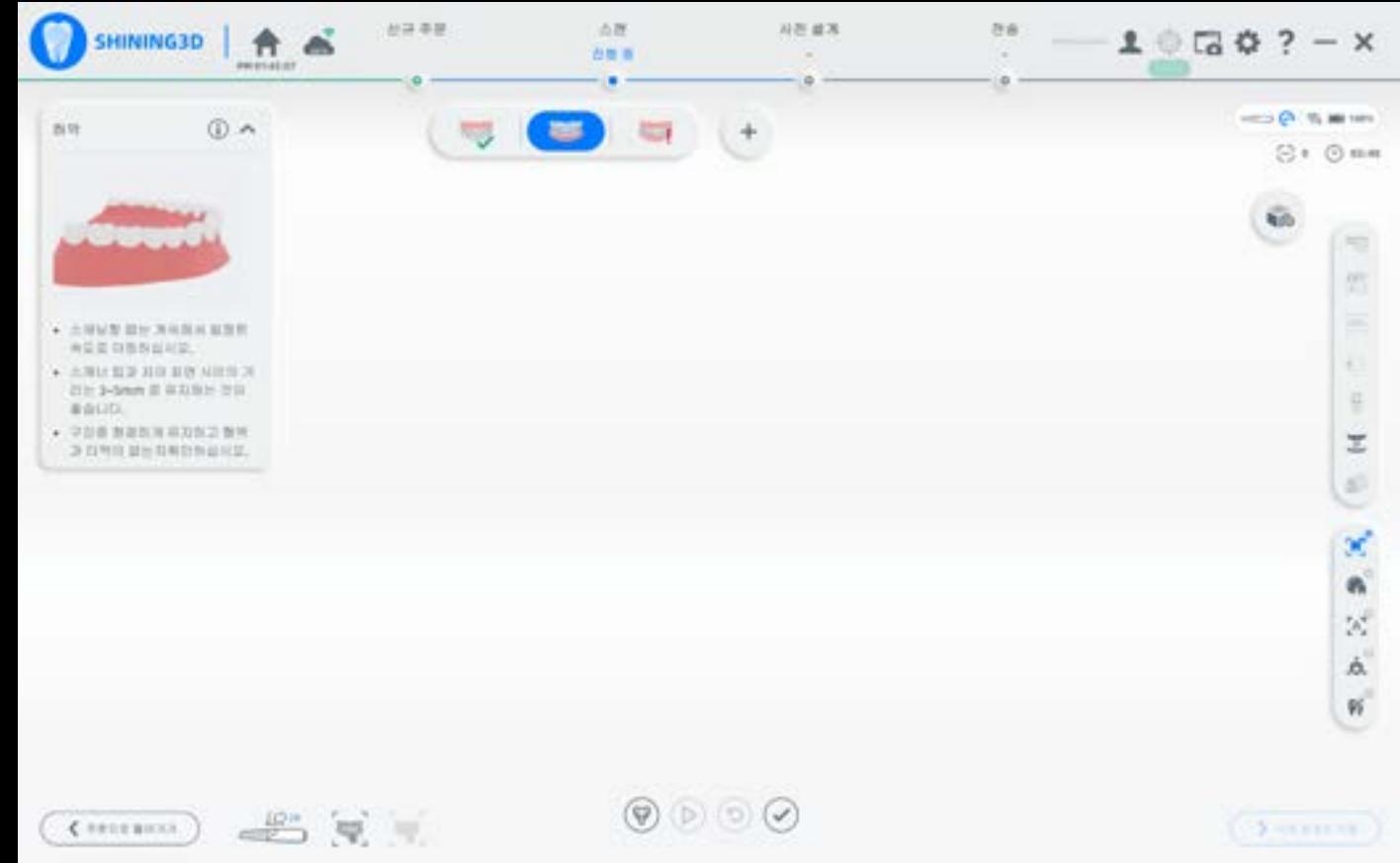
# Dentium Dental Clinic IOS Process

## Shining 3D Aoralscanner

- 1 Wireless & Lightweight
- 2 Multiple tip options
- 3 **Motion**



Aoralscan3 Wireless



# Dentium Dental Clinic IOS Process

## Shining 3D Aoralscanner

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Aoralscan3 Wireless

# Dentium Dental Clinic IOS Process

## Shining 3D Aoralscanner

- 1 Wireless & Lightweight
- 2 Multiple tip options
- 3 **Motion**



Aoralscan3 Wireless



# Dentium Dental Clinic **IOS** Process

IOS Workflow (w. Shining 3D Aoralscan)

## **1. Bite Marking** with Articulating Paper



# Dentium Dental Clinic IOS Process

# IOS Workflow (w. Shining 3D Aoralscan)

1. Bite Marking with Articulating Paper
2. **Upper** SCAN



## Standard



## \*\* I.O.S VOD 2

# Dentium Dental Clinic IOS Process

## IOS Workflow (w. Shining 3D Aoralscan)

1. Bite Marking with Articulating Paper
2. Upper SCAN
3. **Lower** SCAN



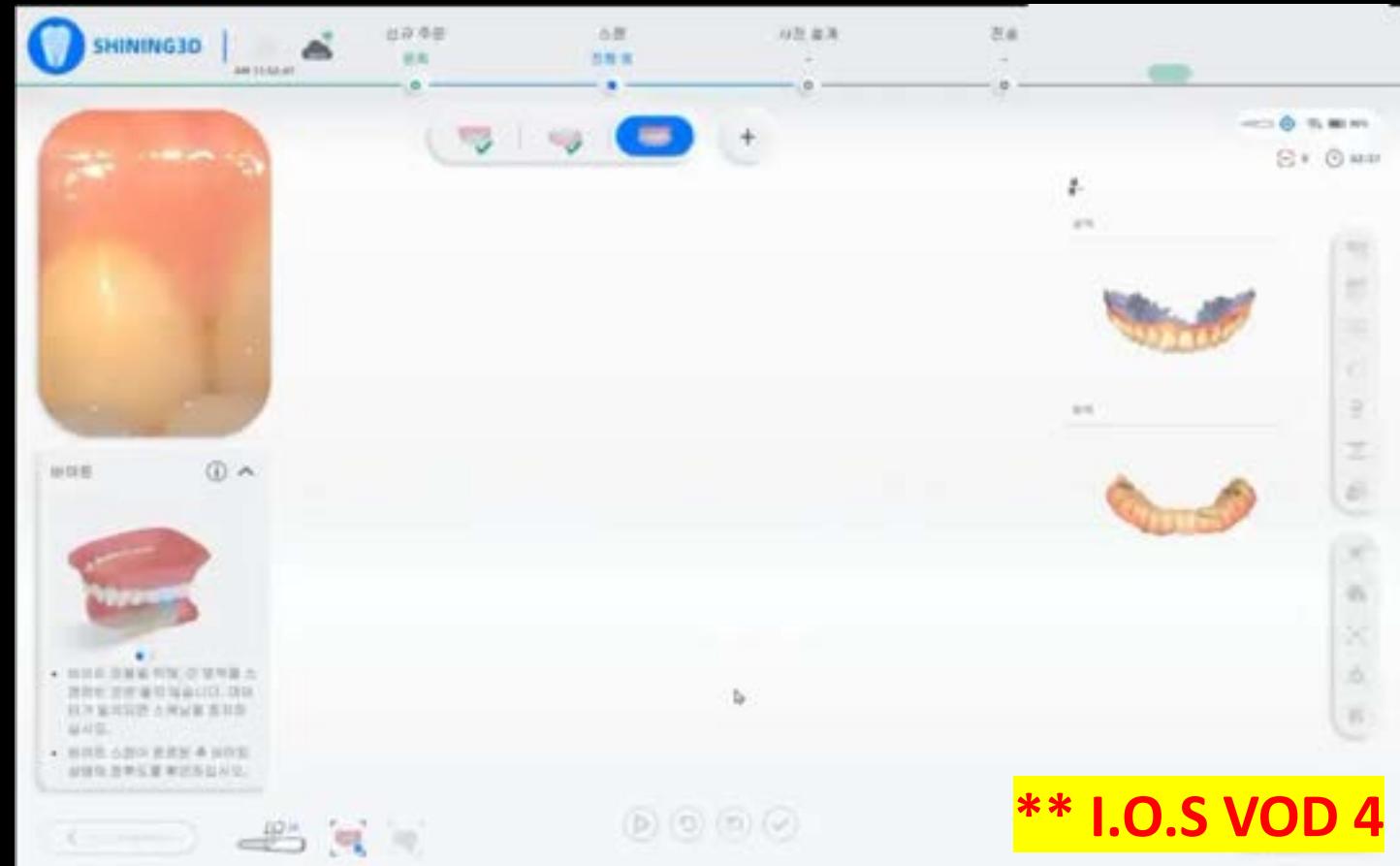
Mini



# Dentium Dental Clinic IOS Process

## IOS Workflow (w. Shining 3D Aoralscan)

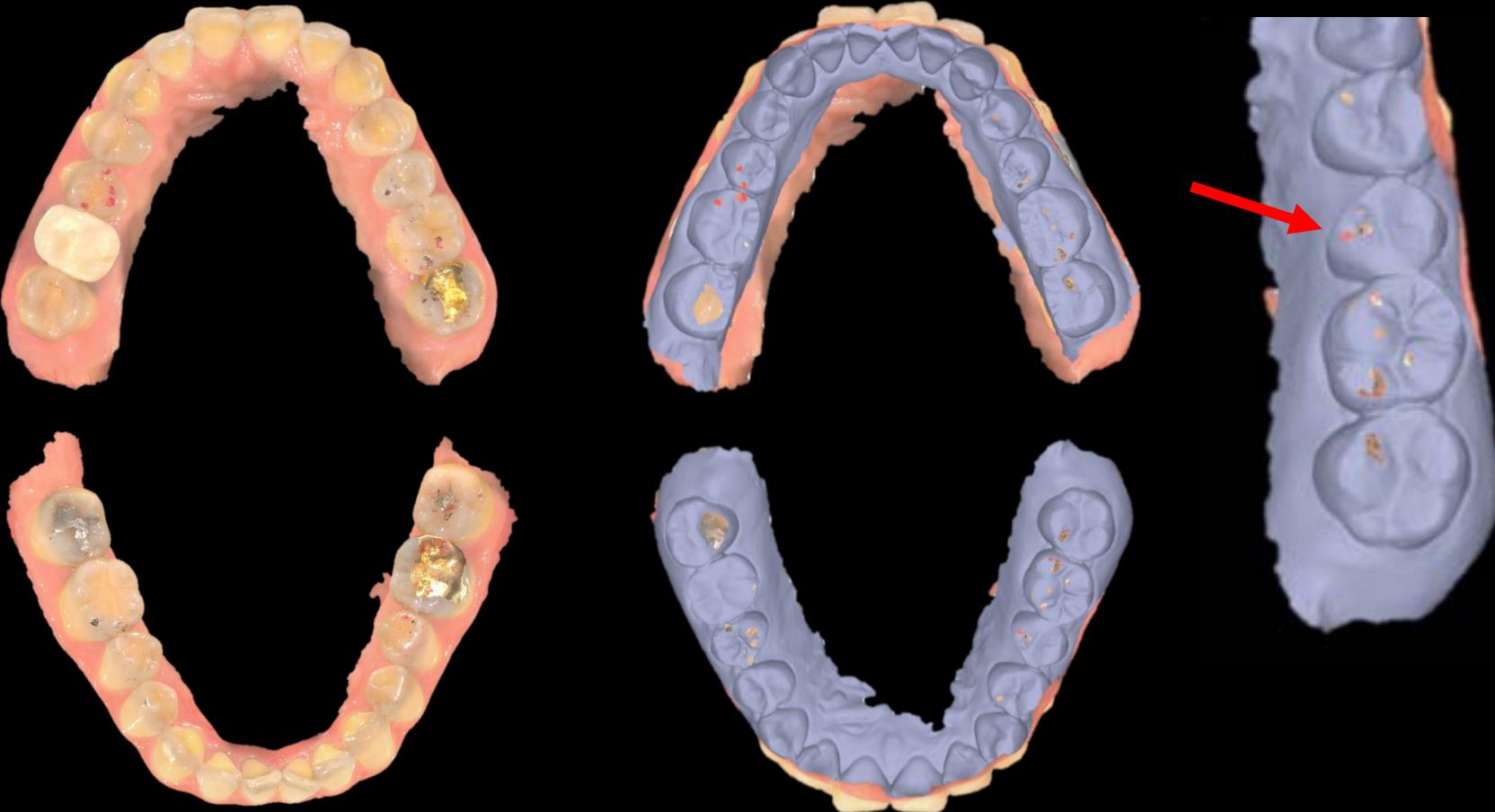
1. Bite Marking with Articulating Paper
2. Upper SCAN
3. Lower SCAN
4. **Bite SCAN** (w. Jaw Fixation)



# Dentium Dental Clinic **IOS** Process

## IOS Workflow (w. Shining 3D Aoralscan)

1. Bite Marking with Articulating Paper
2. Upper SCAN
3. Lower SCAN
4. Bite SCAN



# BOS

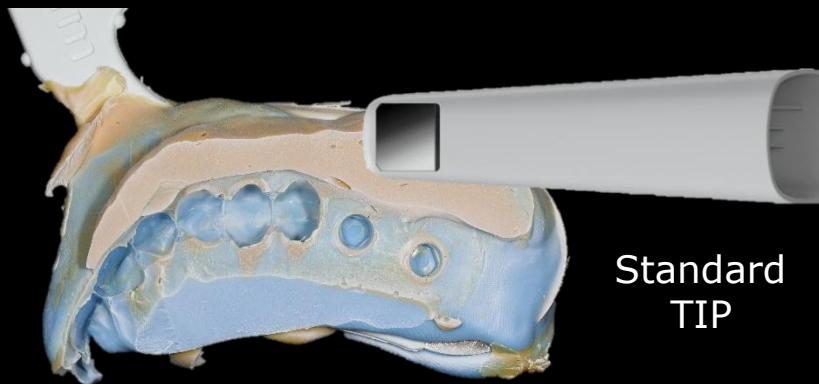
**Bite tray impression scanning With IOS**

BTS – bite tray impression and impression scanning  
With Model Scanner

BOS – bite tray impression scanning  
With IOS

# Dentium Dental Clinic **BOS** Process

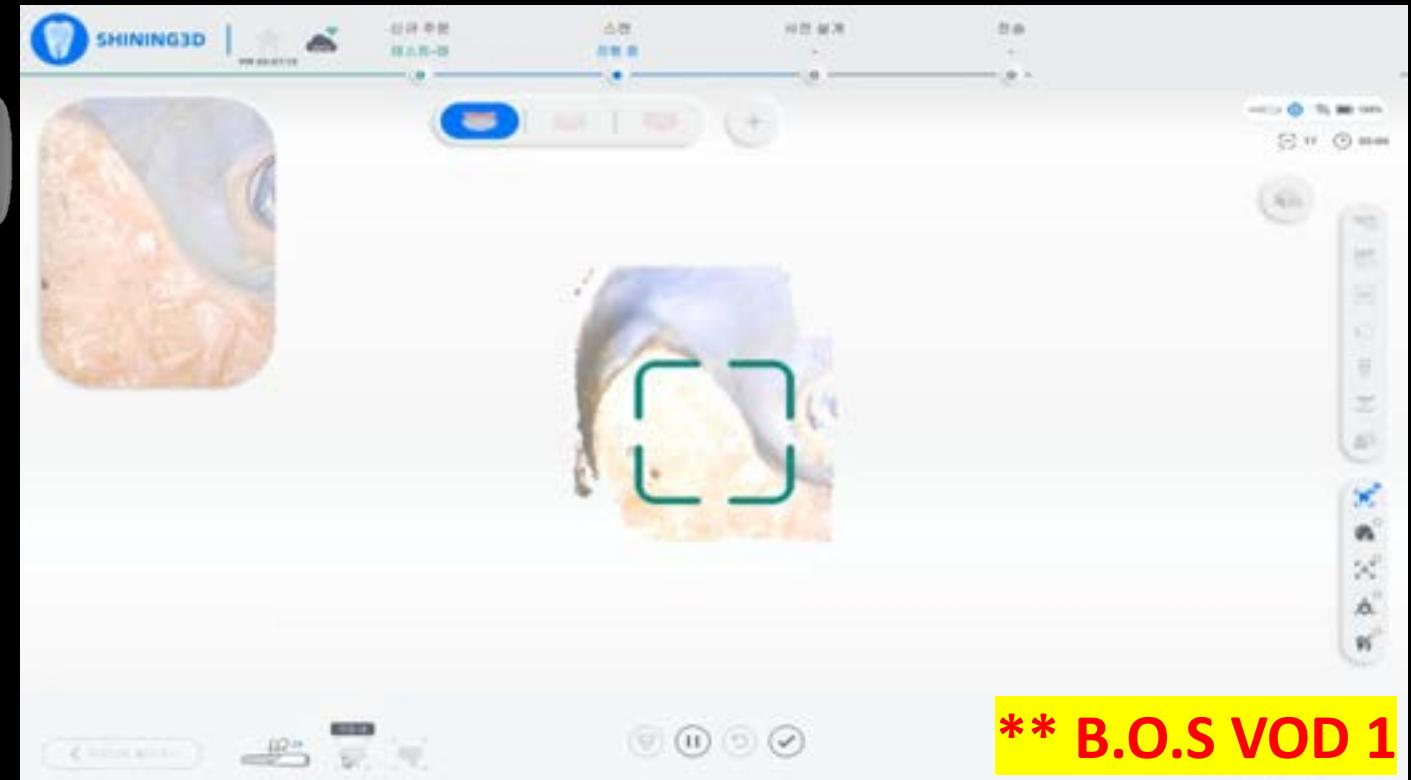
## **BOS** (Bite Tray impression scanning With IOS) steps



Bite Impression

→ Scan Spray coating

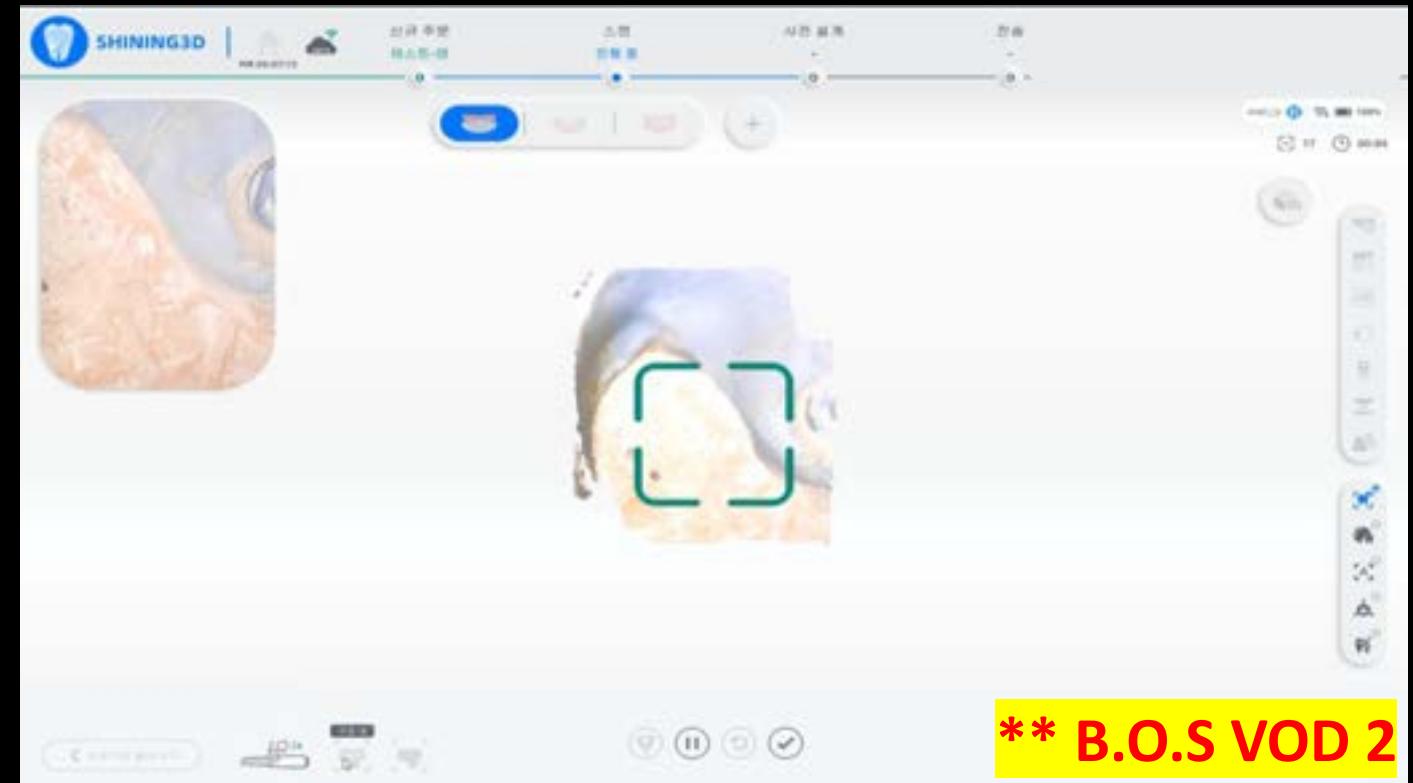
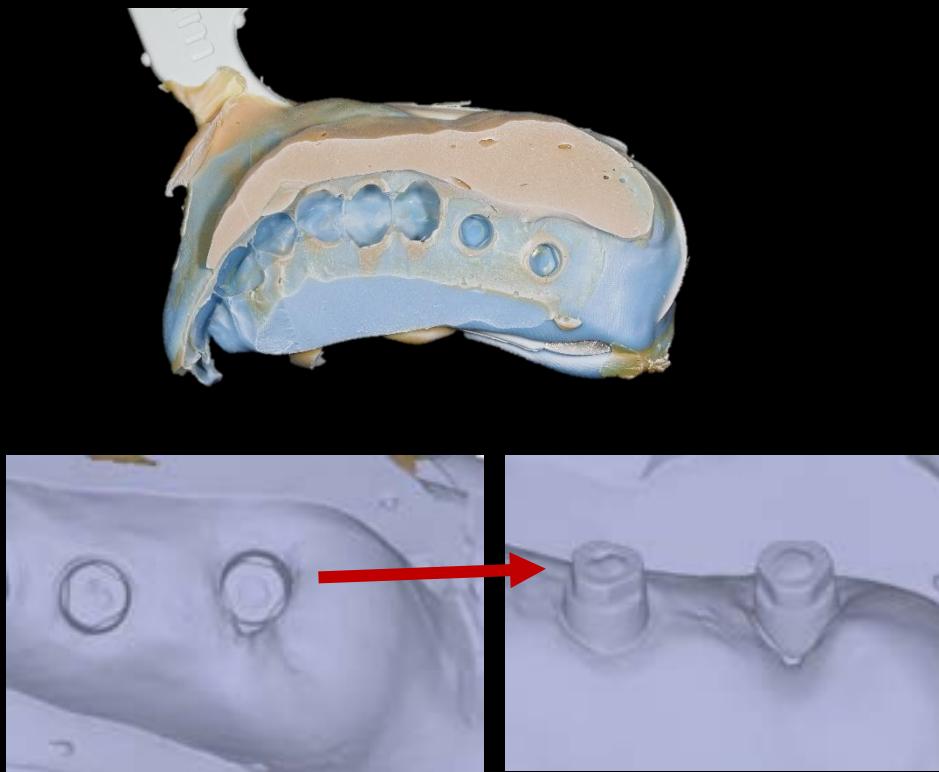
→ IOS (w. Aoralscan3 Wireless)



Maxilla Impression SACN

# Dentium Dental Clinic **BOS** Process

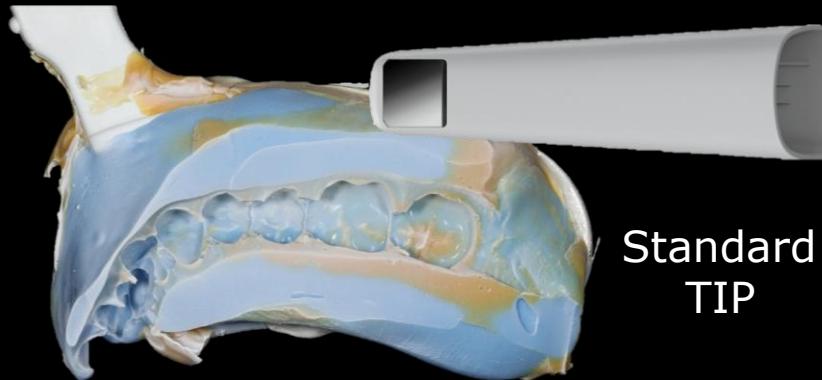
## **BOS** (Bite Tray impression scanning With IOS) steps



Maxilla Impression SACN

# Dentium Dental Clinic **BOS** Process

## **BOS** (Bite Tray impression scanning With IOS) steps



Bite Impression

→ Scan Spray coating

→ IOS (w. Aoralscan3 Wireless)

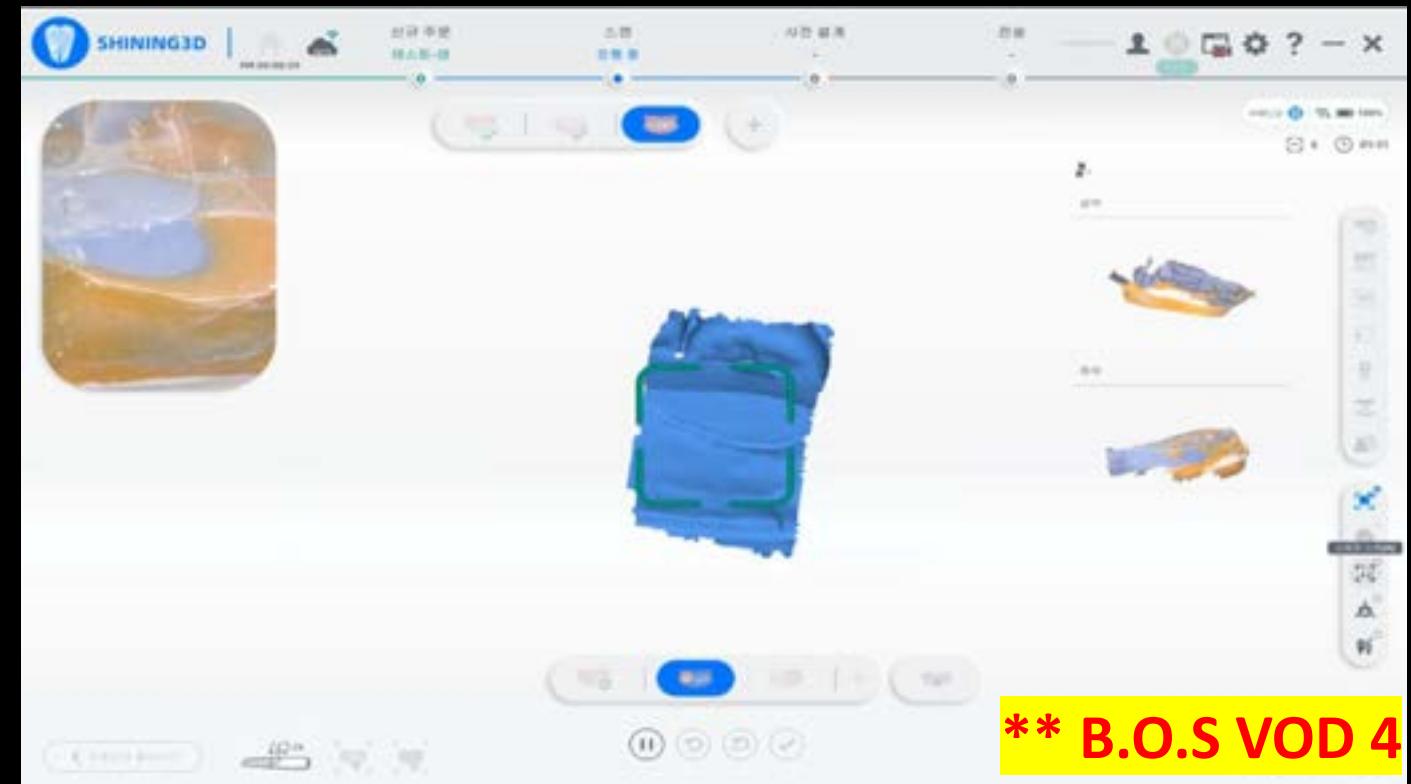


# Dentium Dental Clinic **BOS** Process

**BOS** (Bite Tray impression scanning With IOS) steps



Bite Acquisition



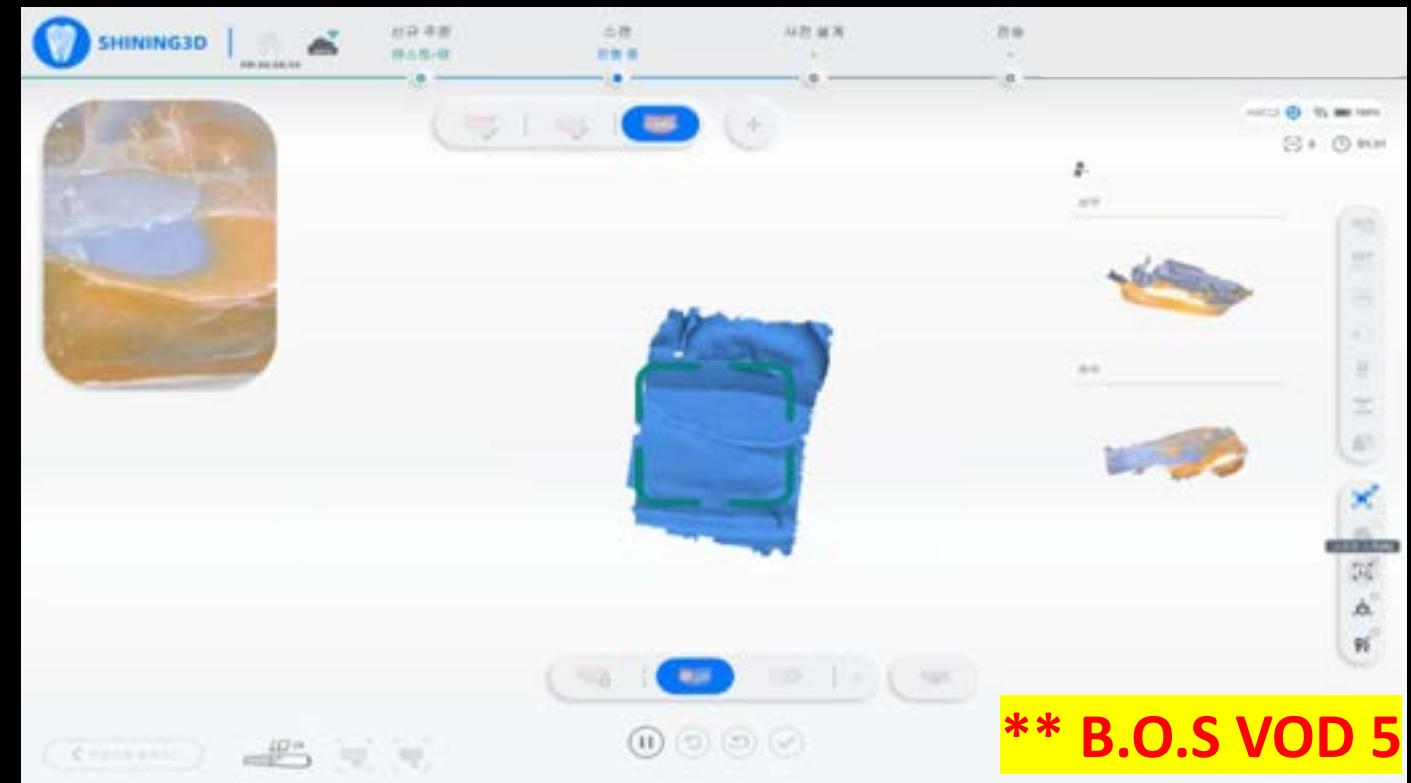
\*\* B.O.S VOD 4

# Dentium Dental Clinic **BOS** Process

**BOS** (Bite Tray impression scanning With IOS) steps



Bite Acquisition

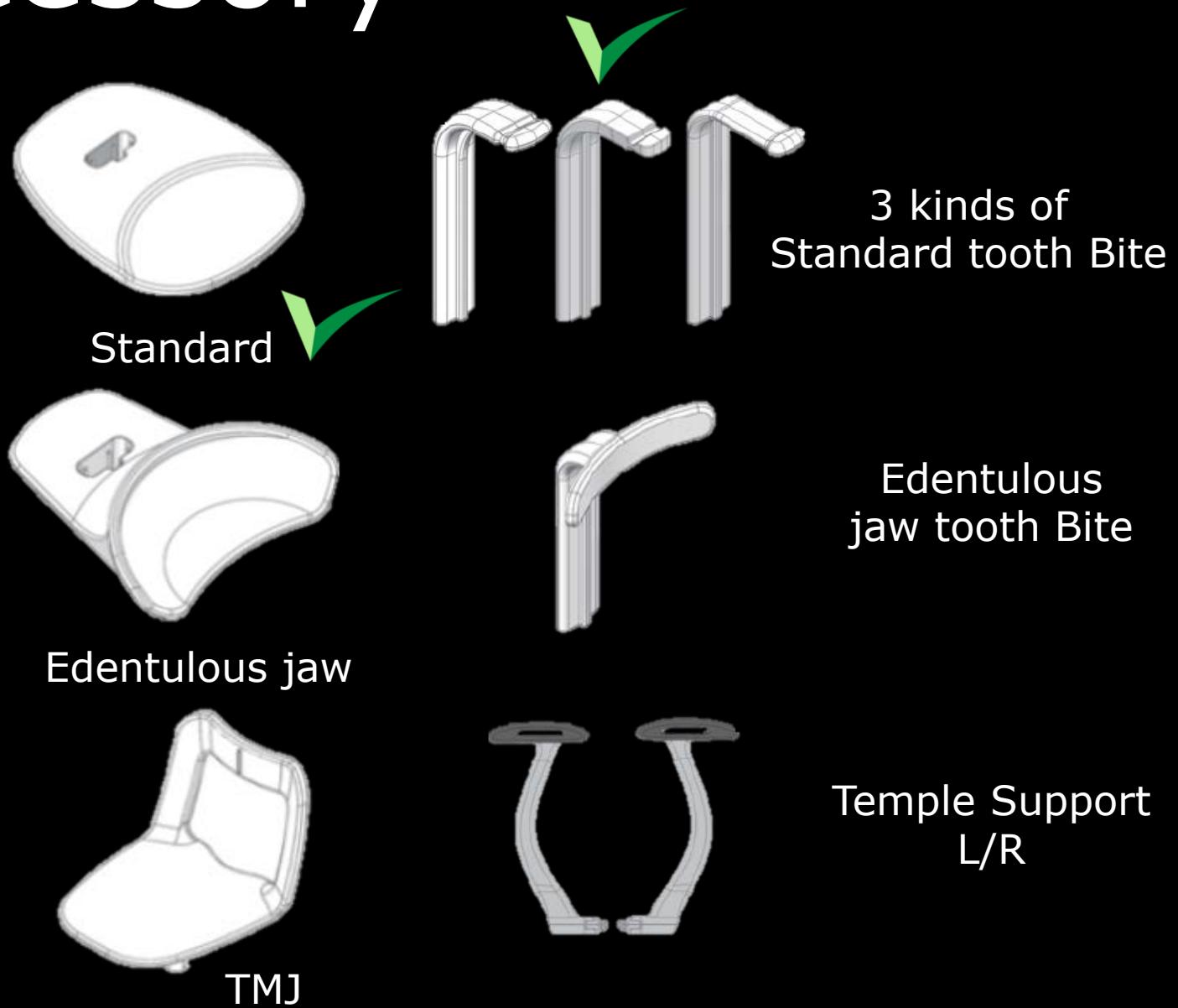


# Dentium Dental Clinic Process

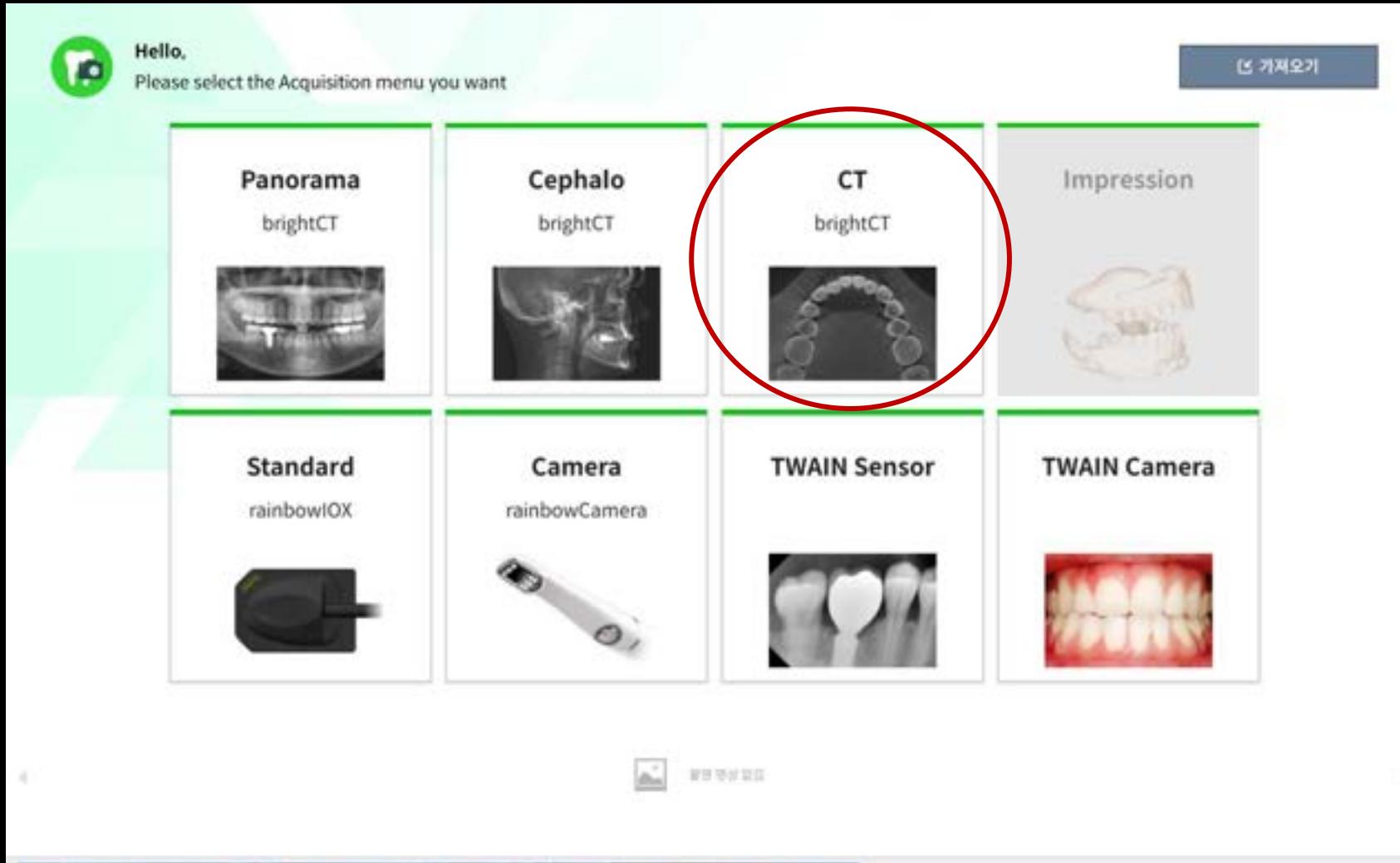
(w. Prosthesis Preparation Process and **TIP**)



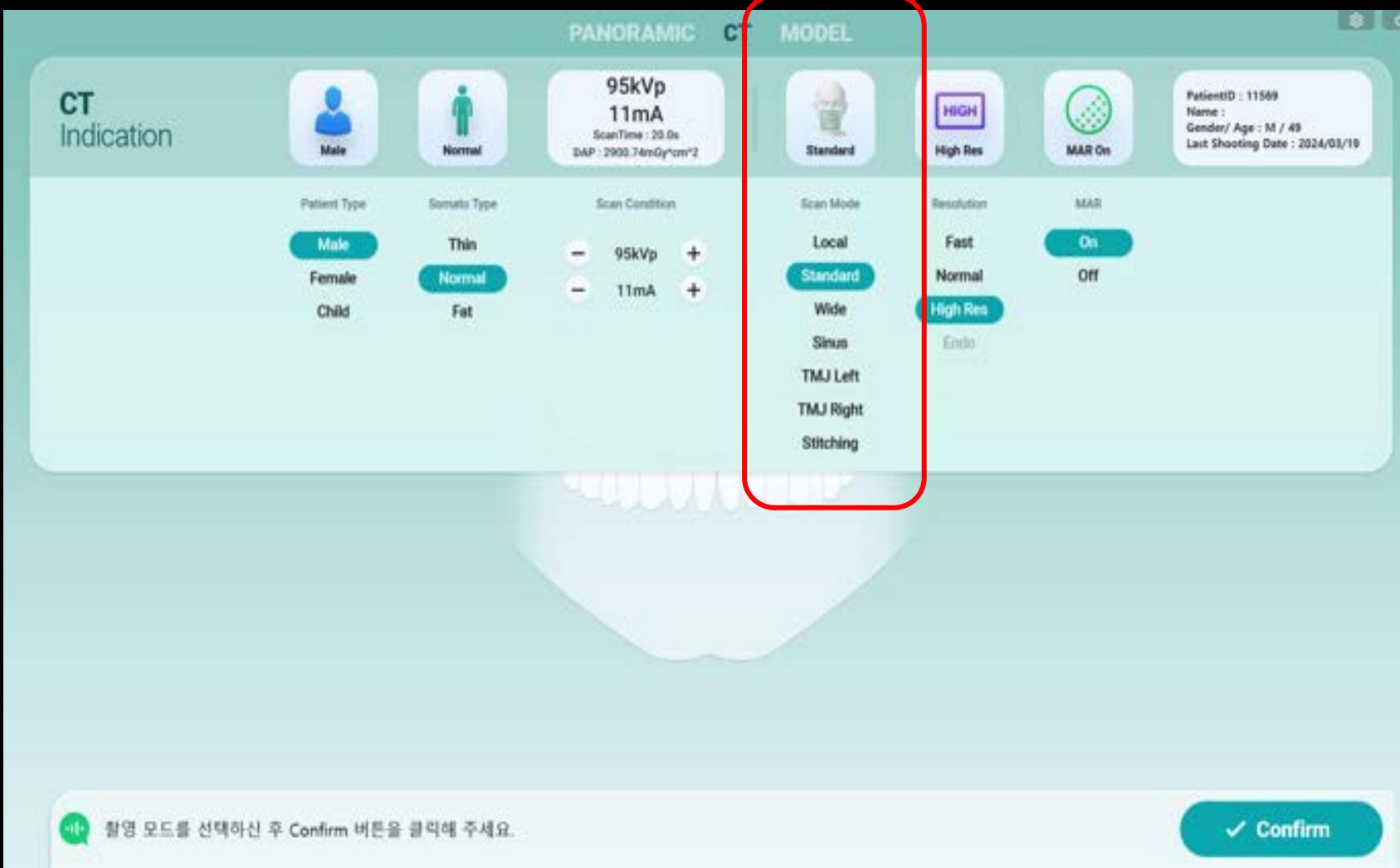
# bright CT - Accessory



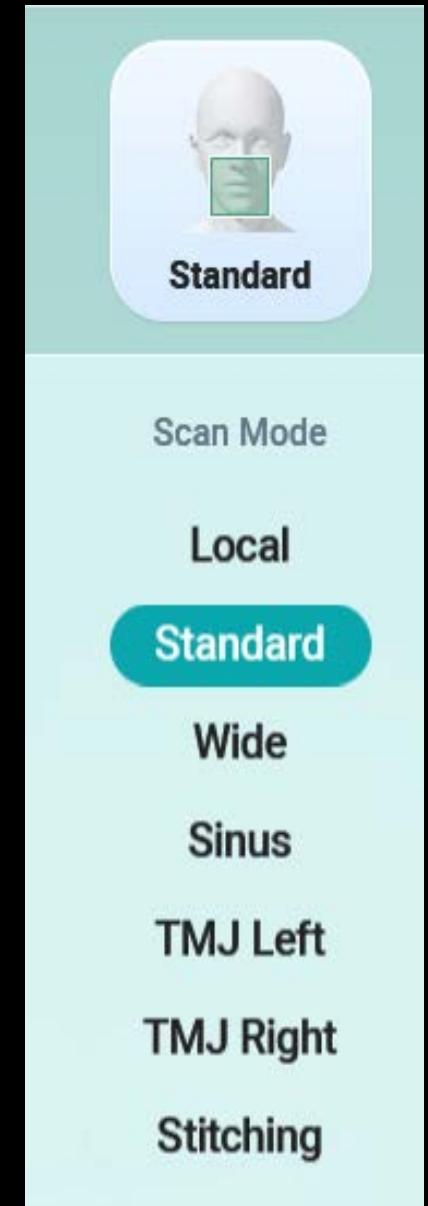
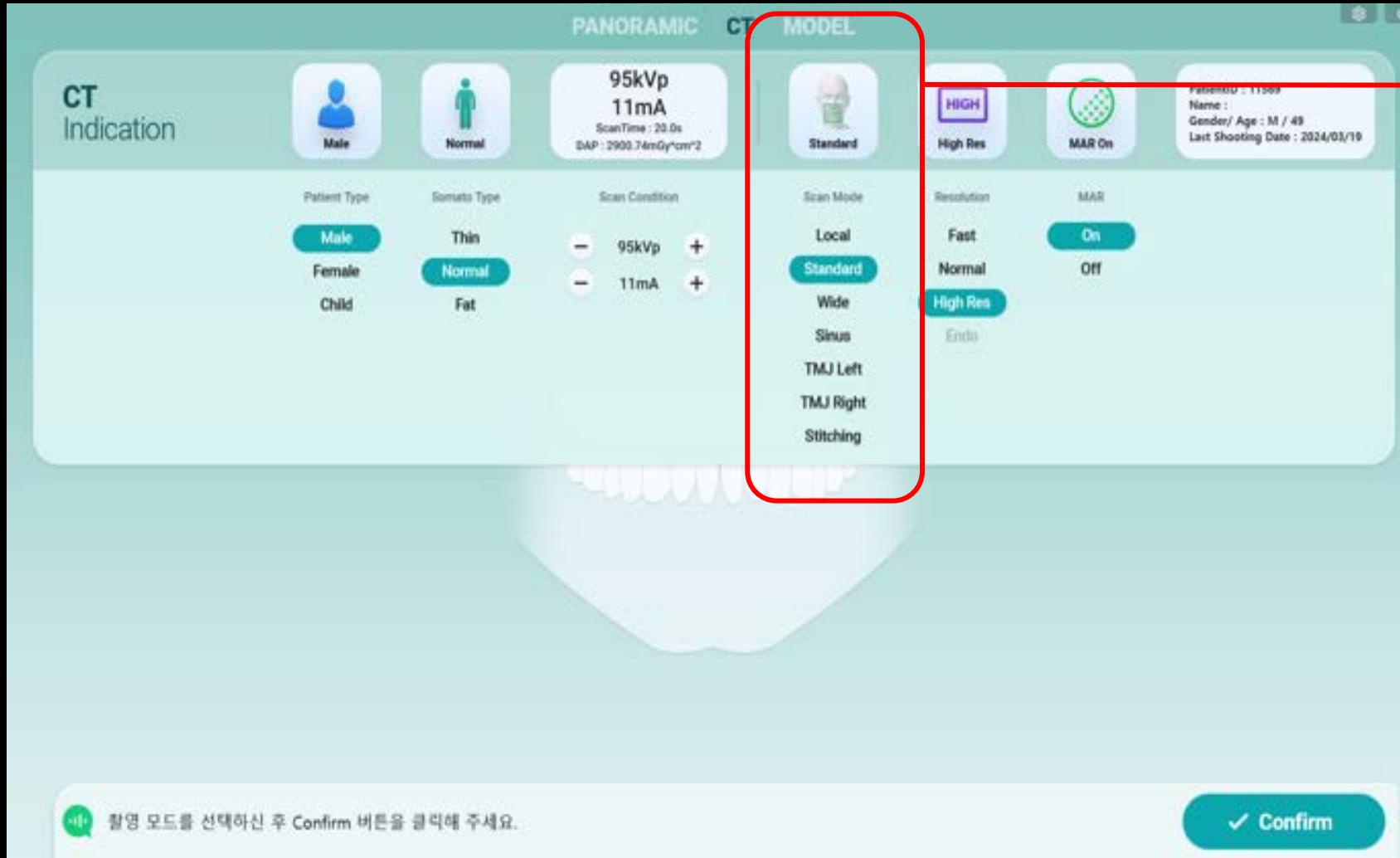
# bright CT Scan



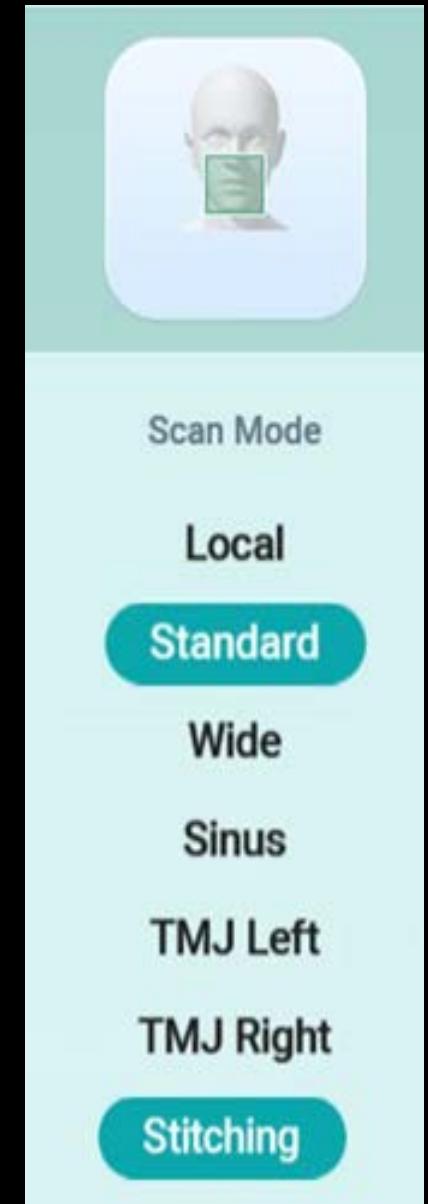
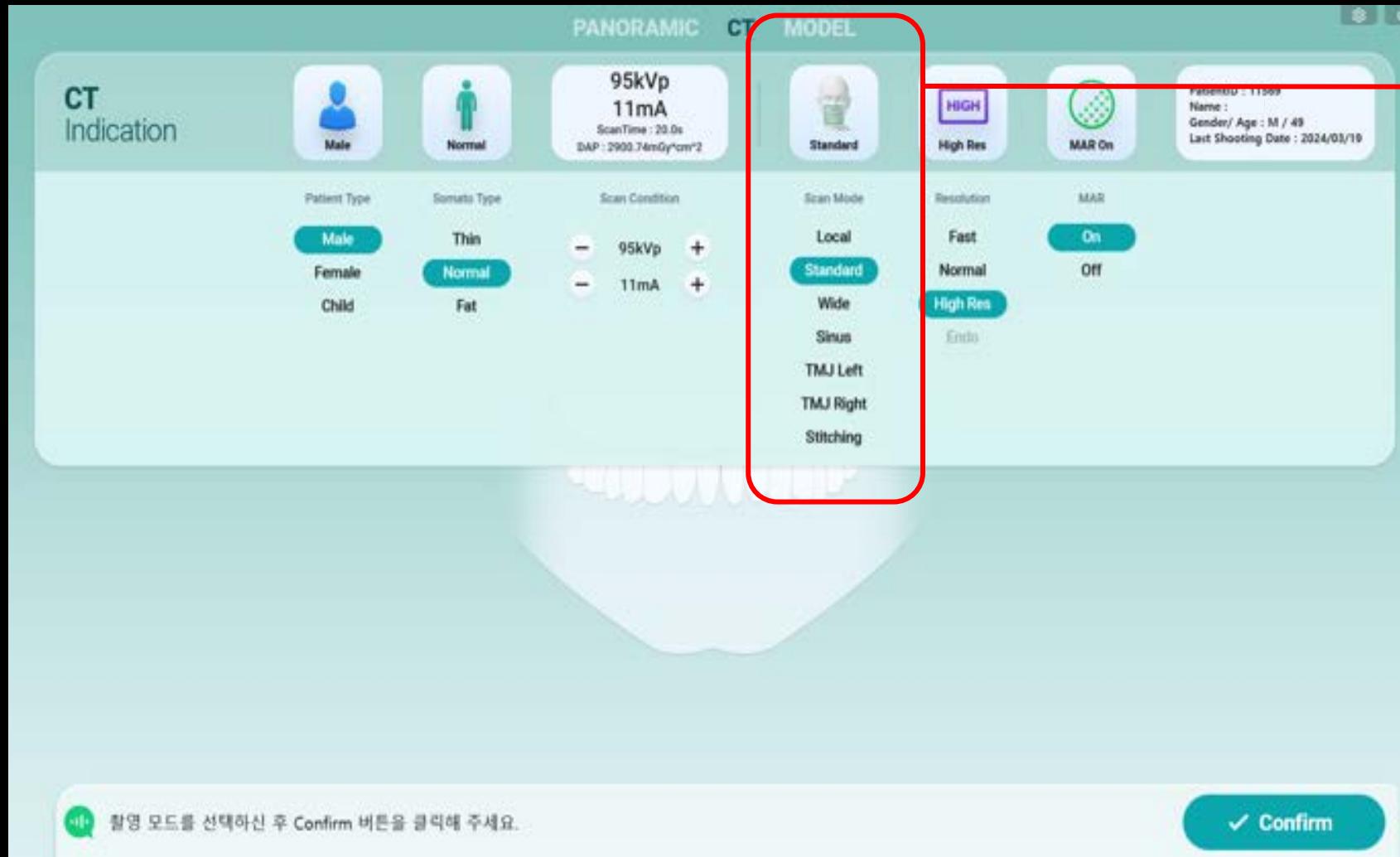
# bright CT Scan



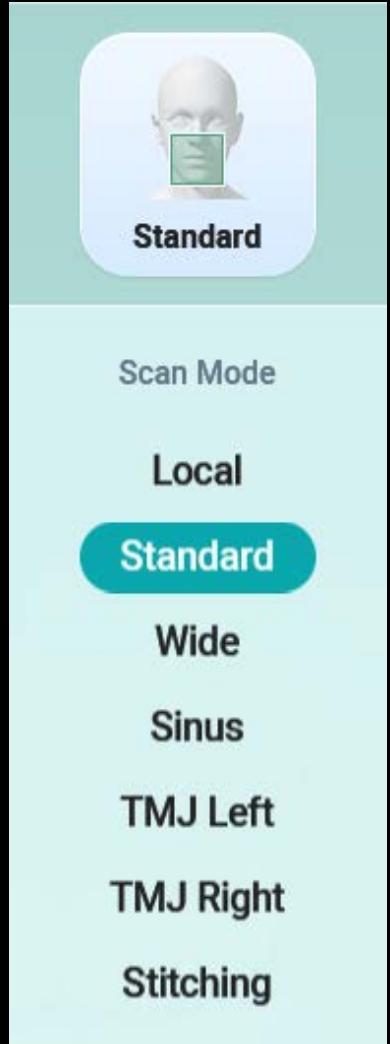
# bright CT Scan



# bright CT Scan

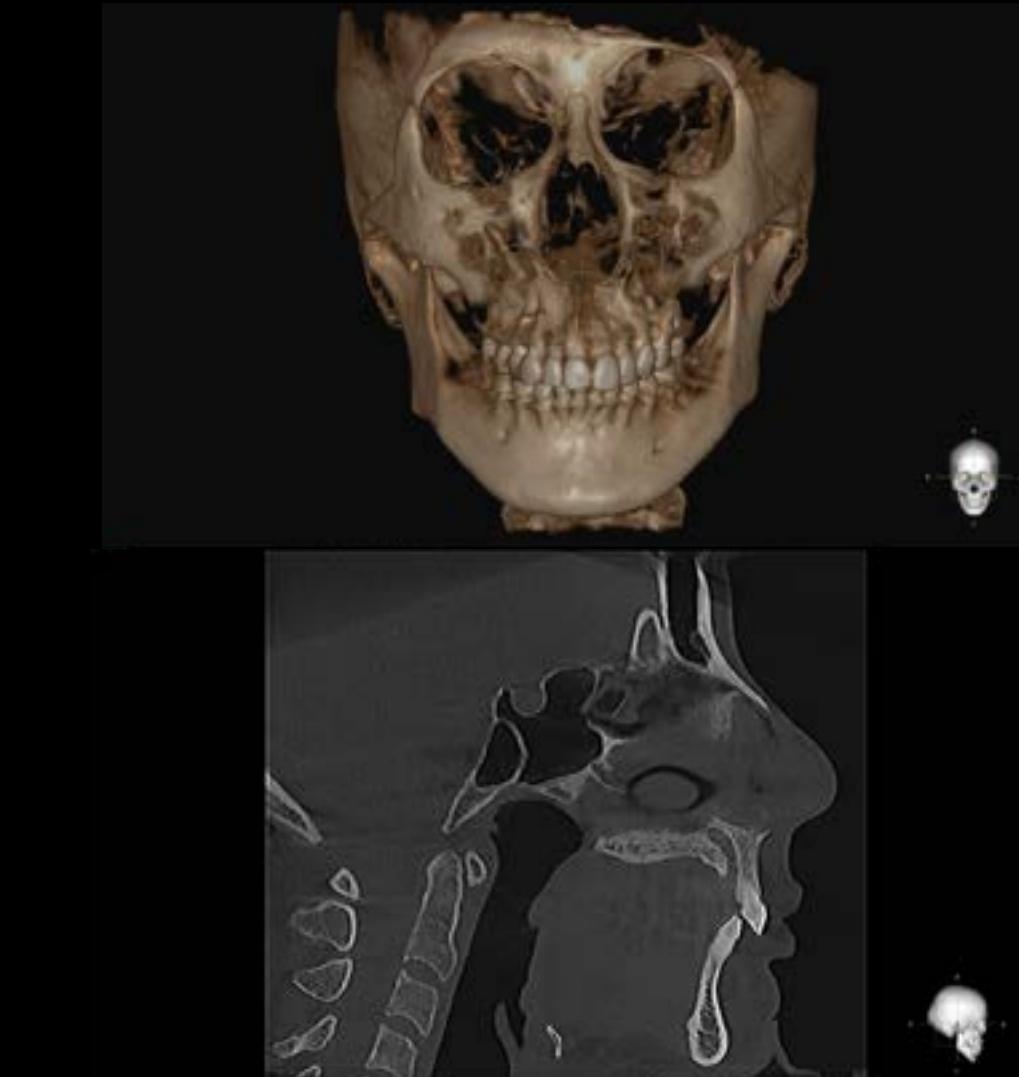
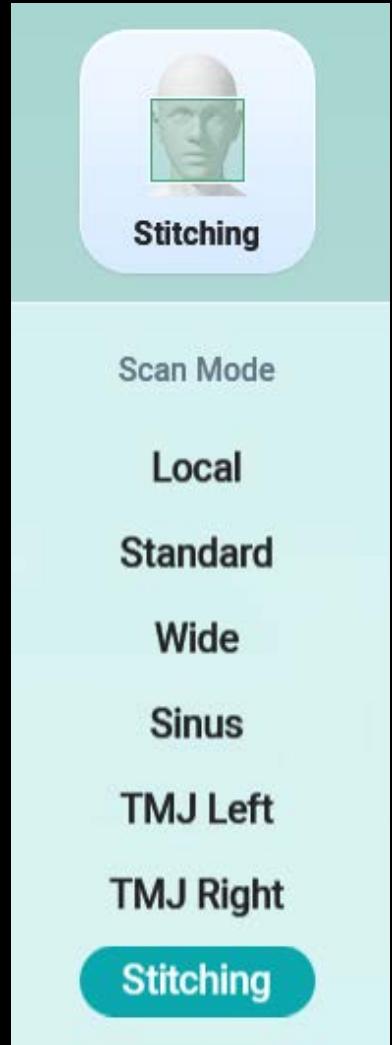


# bright CT - Standard Mode View



Standard rest  
& tooth Bite

# bright CT - Stitching Mode View

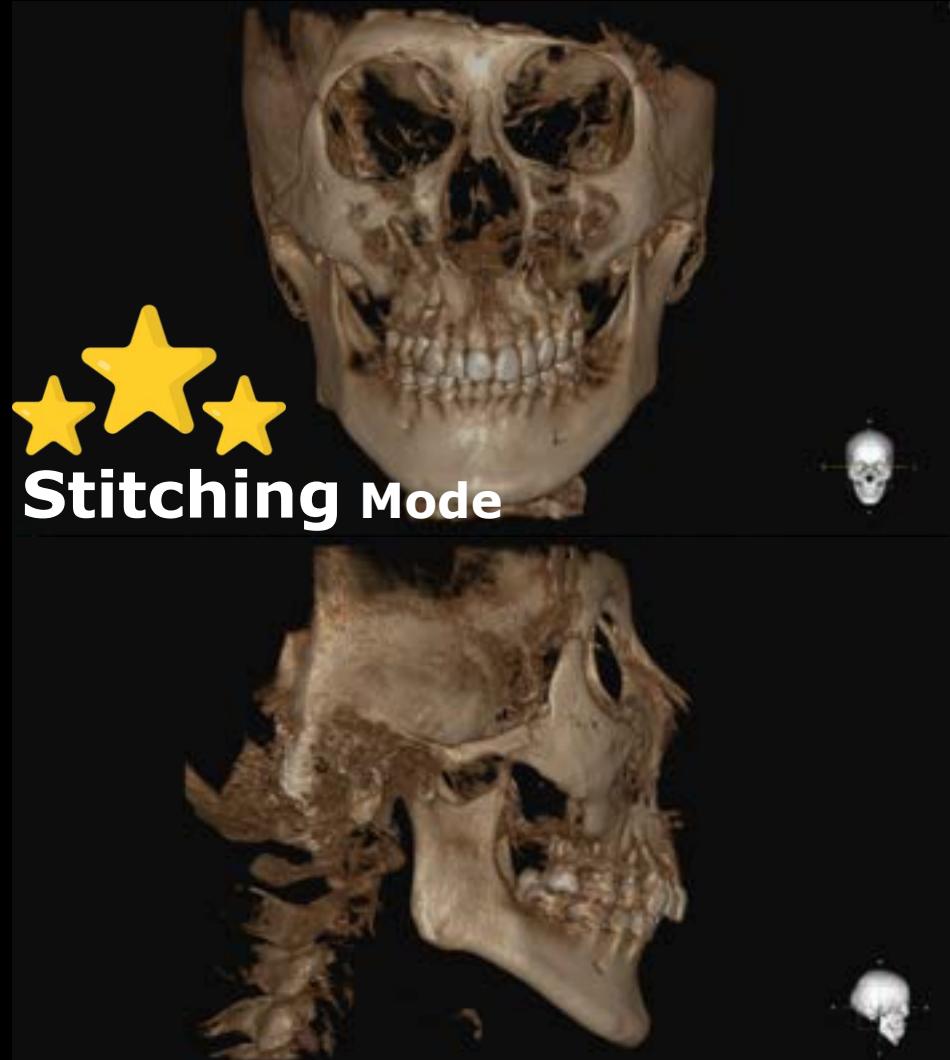


# bright CT - Stitching Mode Taking

## Stitching Mode Cautions!



# bright CT - Stitching & Standard View 비교



# Dentium Dental Clinic Process

## PANORAMA Taking

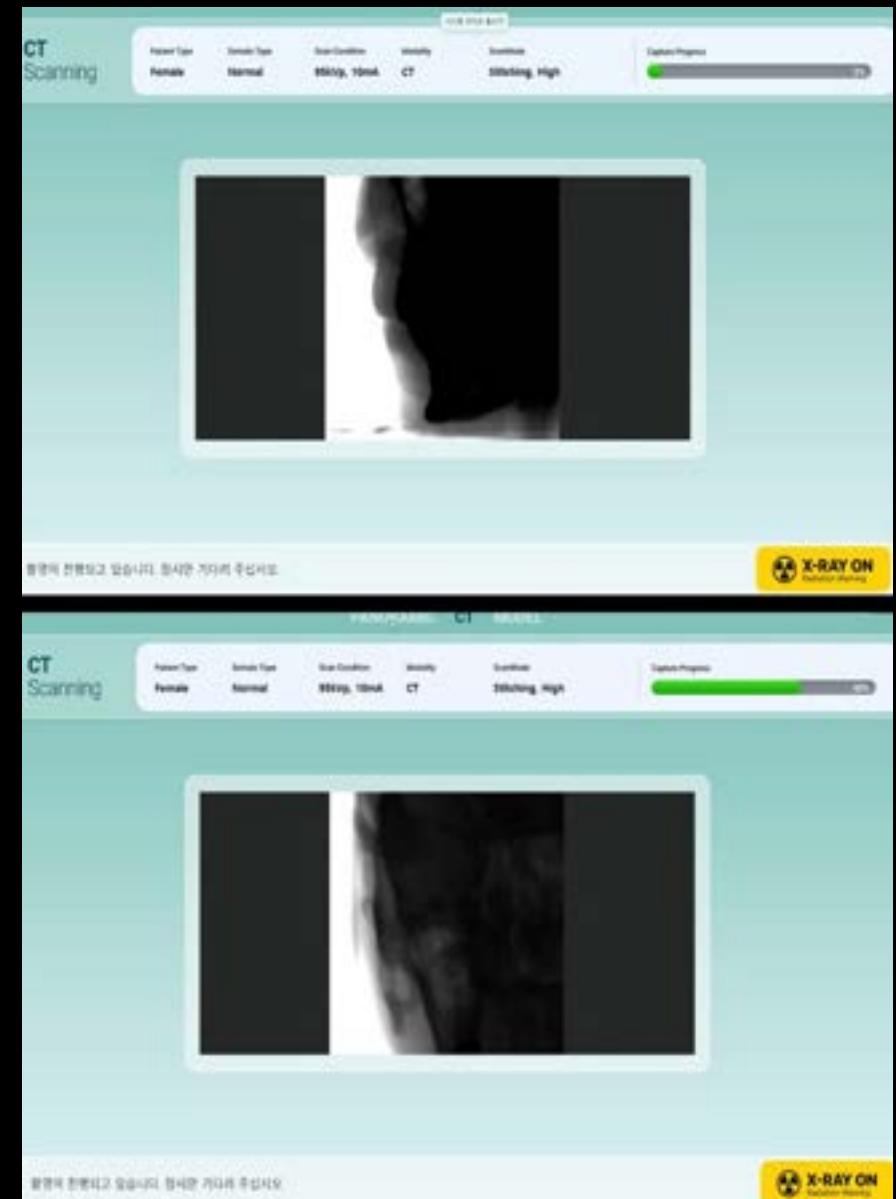
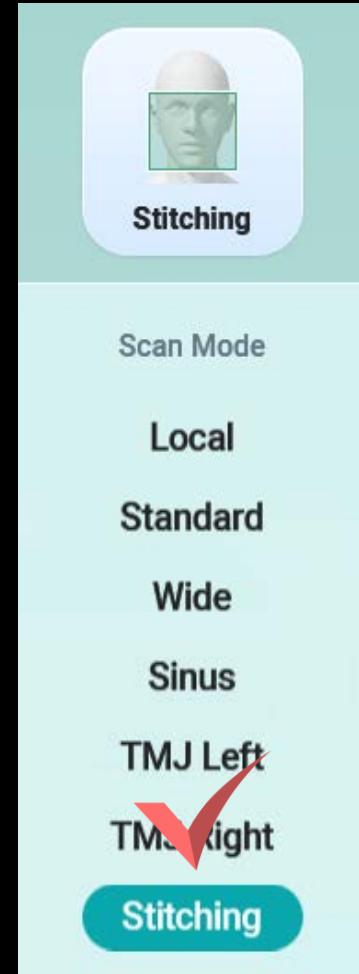


# Dentium Dental Clinic Process

PANORAMA Taking

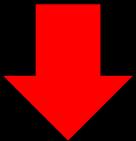


CT Taking  
(Stitching Mode)

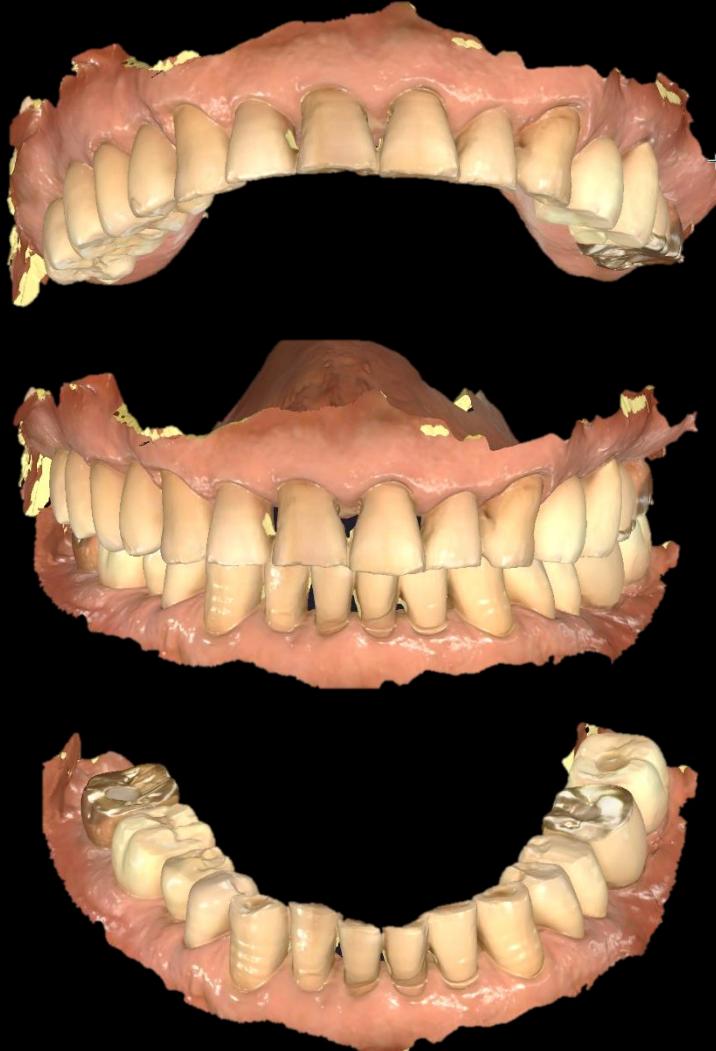


# Dentium Dental Clinic Process

PANORAMA Taking



CT Taking  
(Stitching Mode)  
&  
IOS



Aoralscan3 Wireless

# Dentium Dental Clinic Process

PANORAMA Taking



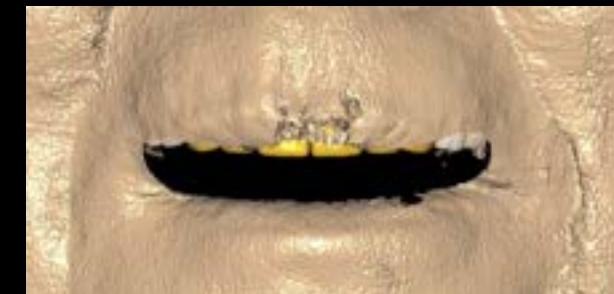
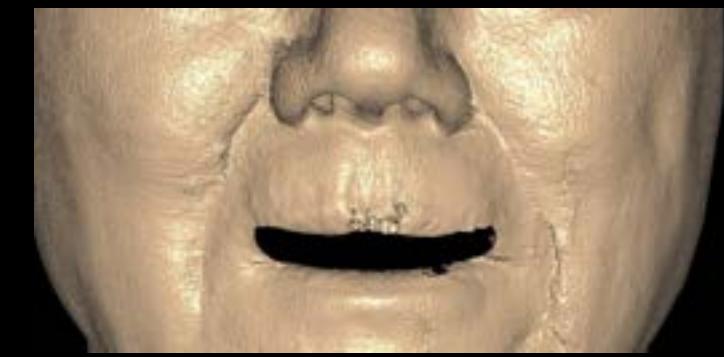
CT Taking  
(Stitching Mode)

&

IOS



Virtual Set-up  
&  
Consultation



# Dentium Dental Clinic Process

PANORAMA Taking



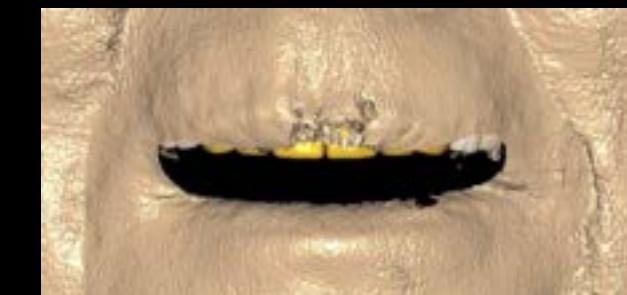
CT Taking  
(Stitching Mode)

&

IOS



Virtual Set-up  
&  
Consultation



# Dentium Dental Clinic Process

PANORAMA Taking



CT Taking  
(Stitching Mode)

&

IOS



Esthetic Prosthesis  
Treatment



# Dentium Dental Clinic

## Clinical Case

## &

## CT Applications Guide



# IOS Clinical Case

## Implant Surgery



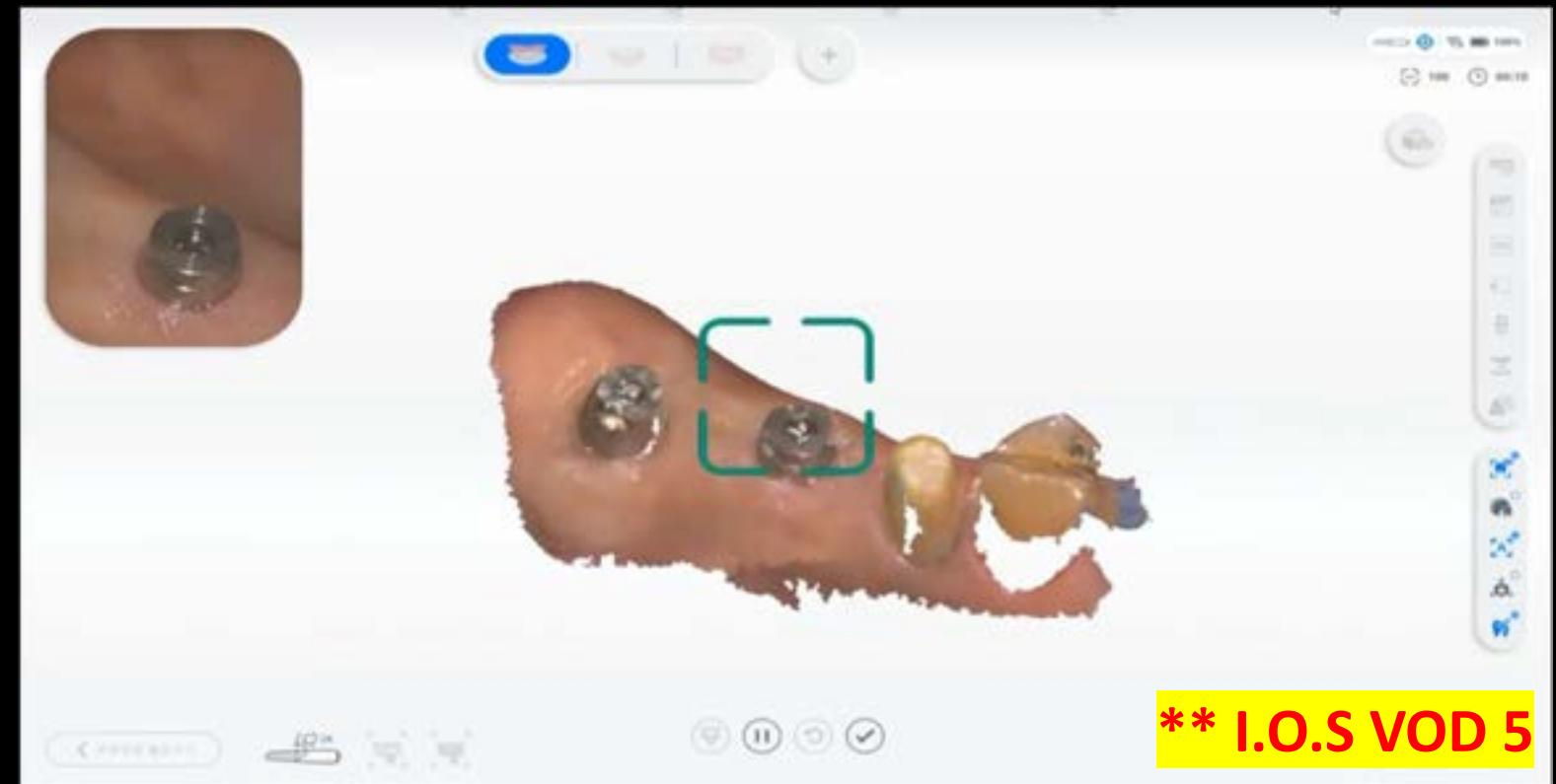
#26 bright Tissue Level ( $\varnothing 4.5 \times 7.0$ )  
#27 bright Tissue Level ( $\varnothing 3.5 \times 7.0$ )

# IOS Clinical Case

## Preparation & IOS



Preparation



**\*\* I.O.S VOD 5**

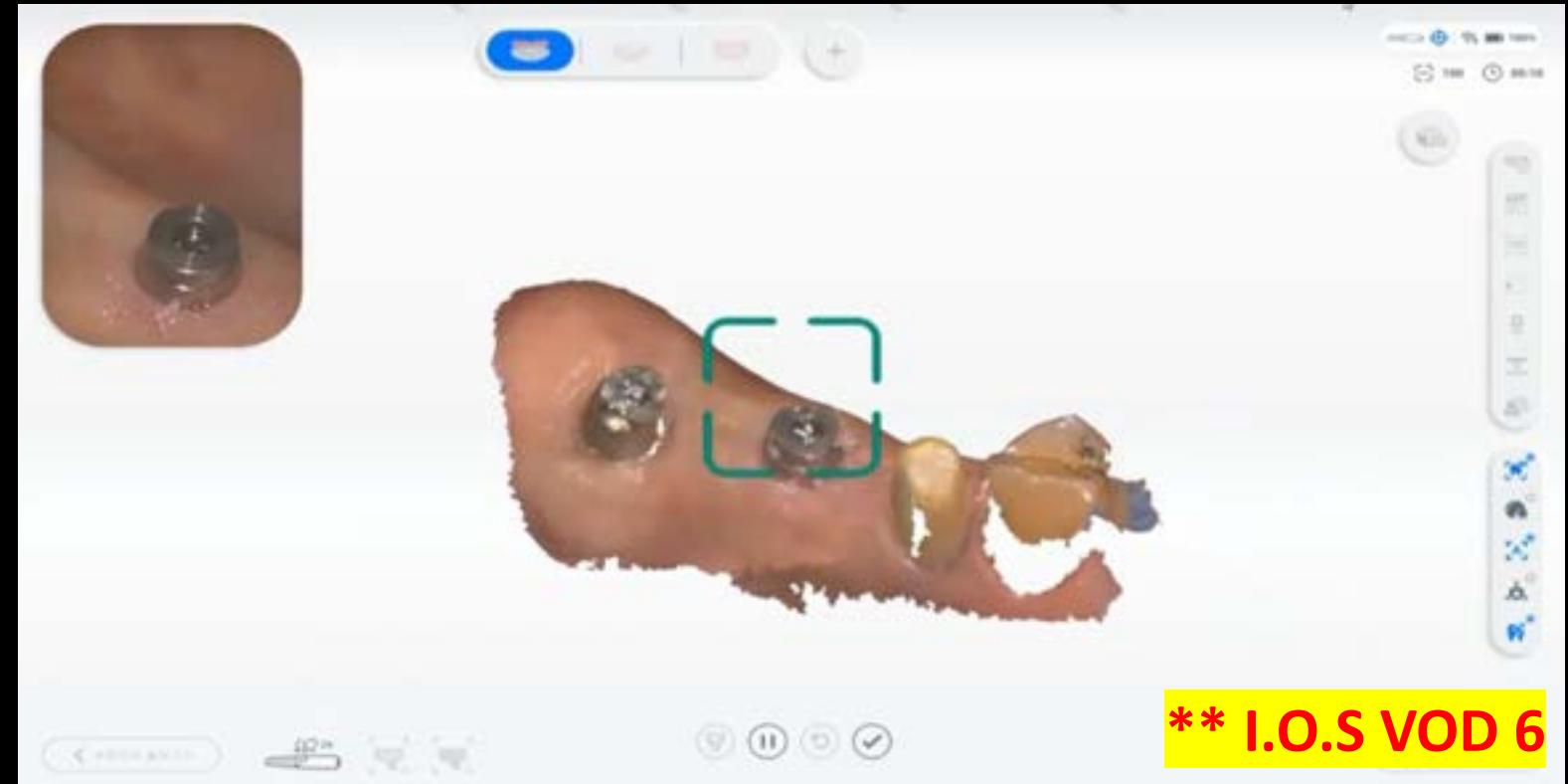
**SCAN** (w. Aoralscan3 Wireless)

# IOS Clinical Case

## Preparation & IOS



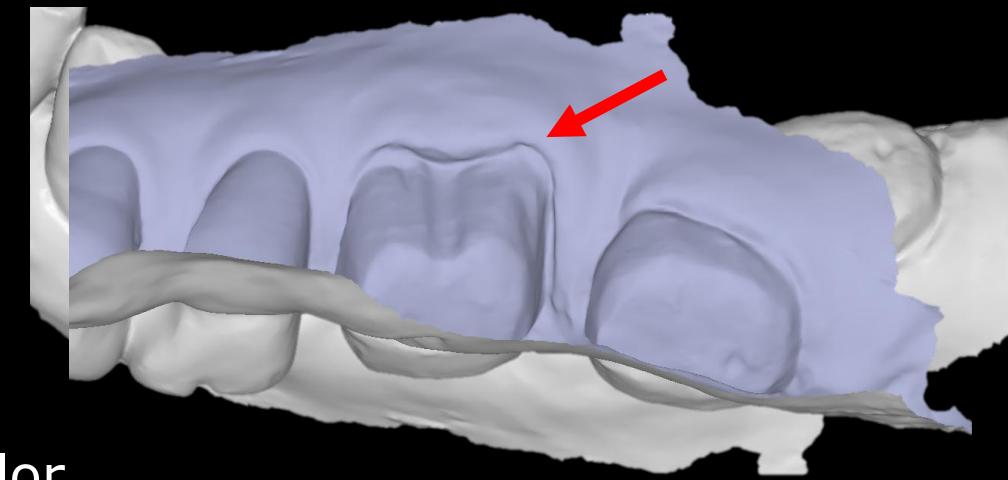
Preparation



**SCAN** (w. Aoralscan3 Wireless)

# IOS Clinical Case

## Preparation & IOS



Turn off data color

# IOS Clinical Case

## IOS for Abutment & Zirconia



Zirconia DEL

# IOS Clinical Case

## Panorama



# BOS Clinical Case w.BTS

Age: 70s / F  
CC : Maxillary Anterior Area

Implant Consultation and  
Treatment Planning

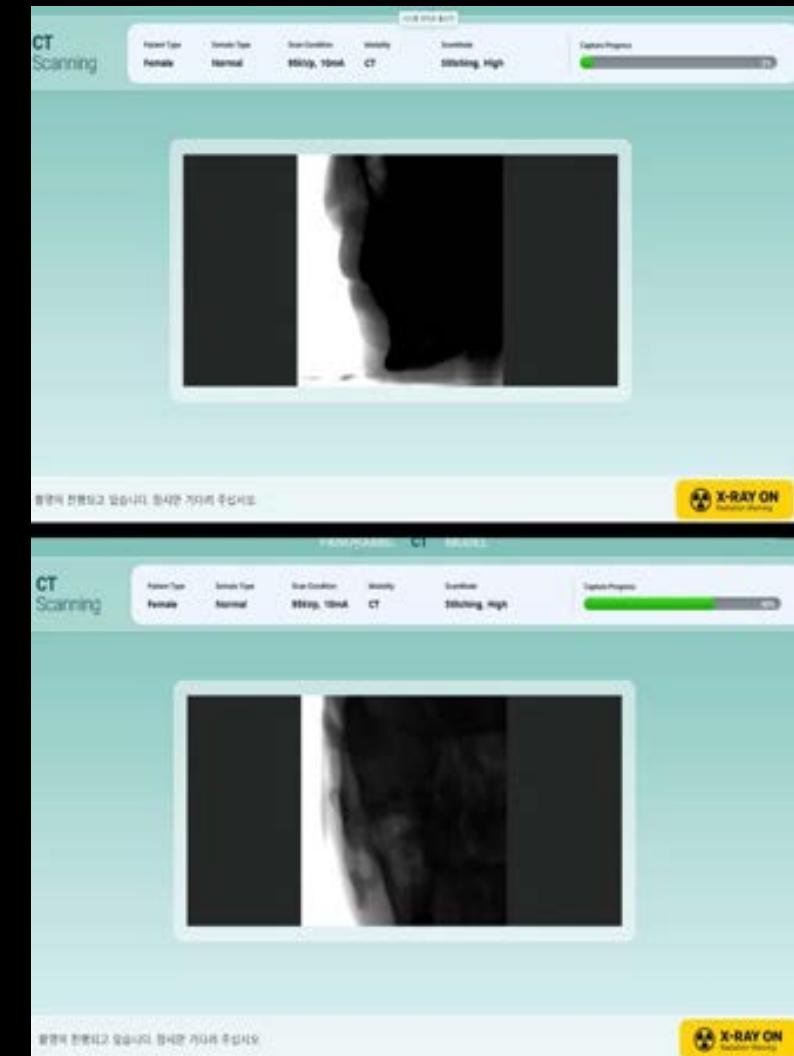
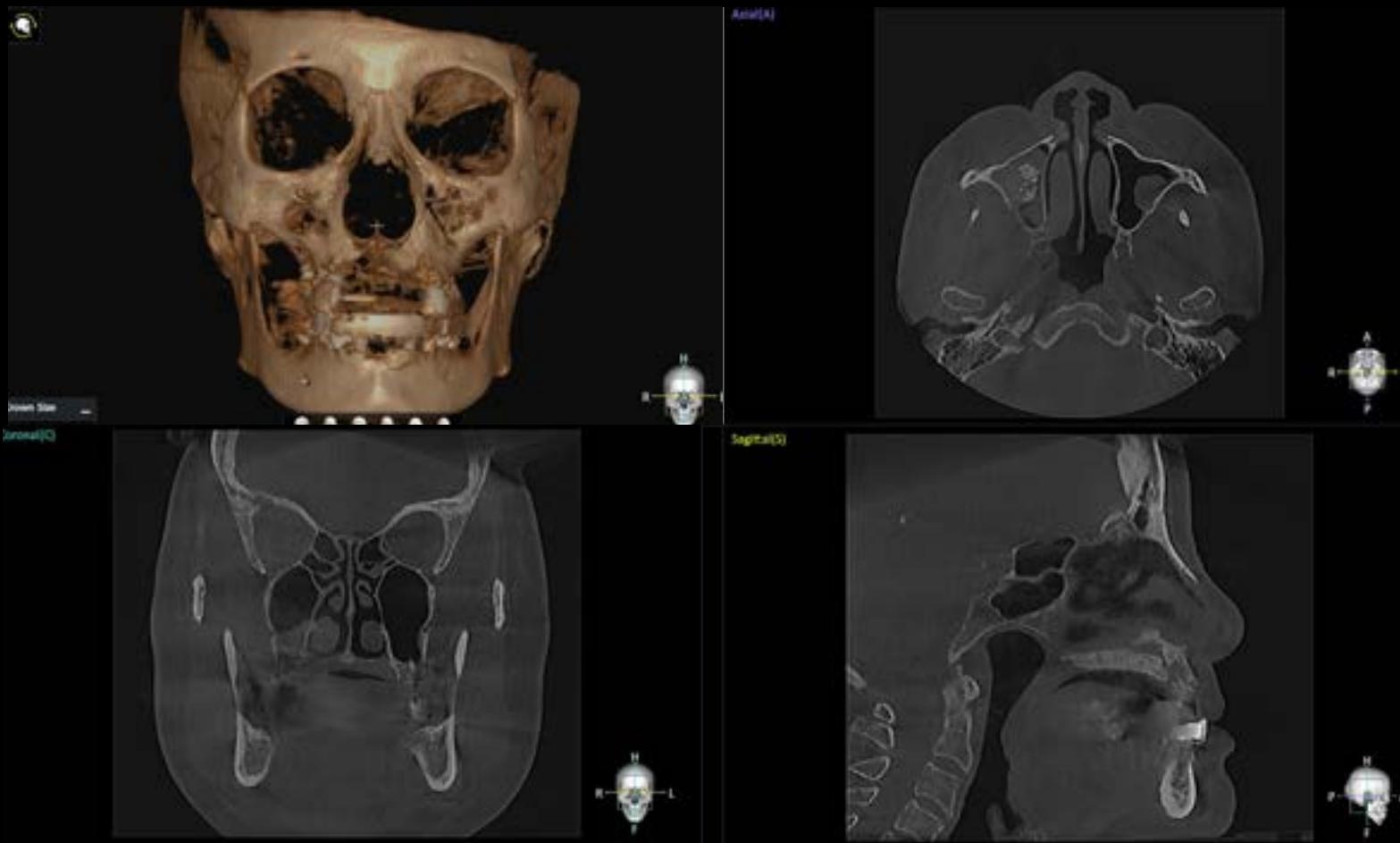
Plan) 2 1 | 3

Root Rest EXT & Implant Surgery



# BOS Clinical Case w.BTS

## CT Scan (Stitching Mode)



# BOS Clinical Case w.BTS

## Implant Surgery



Pre - OP



Grown Guide Adap

bright TL ( $\varnothing 2.5 \times 11.0$ )



**Tissue** Level



# BOS Clinical Case w.BTS

Implant Surgery



bright TL ( $\varnothing 2.5 \times 11.0$ )

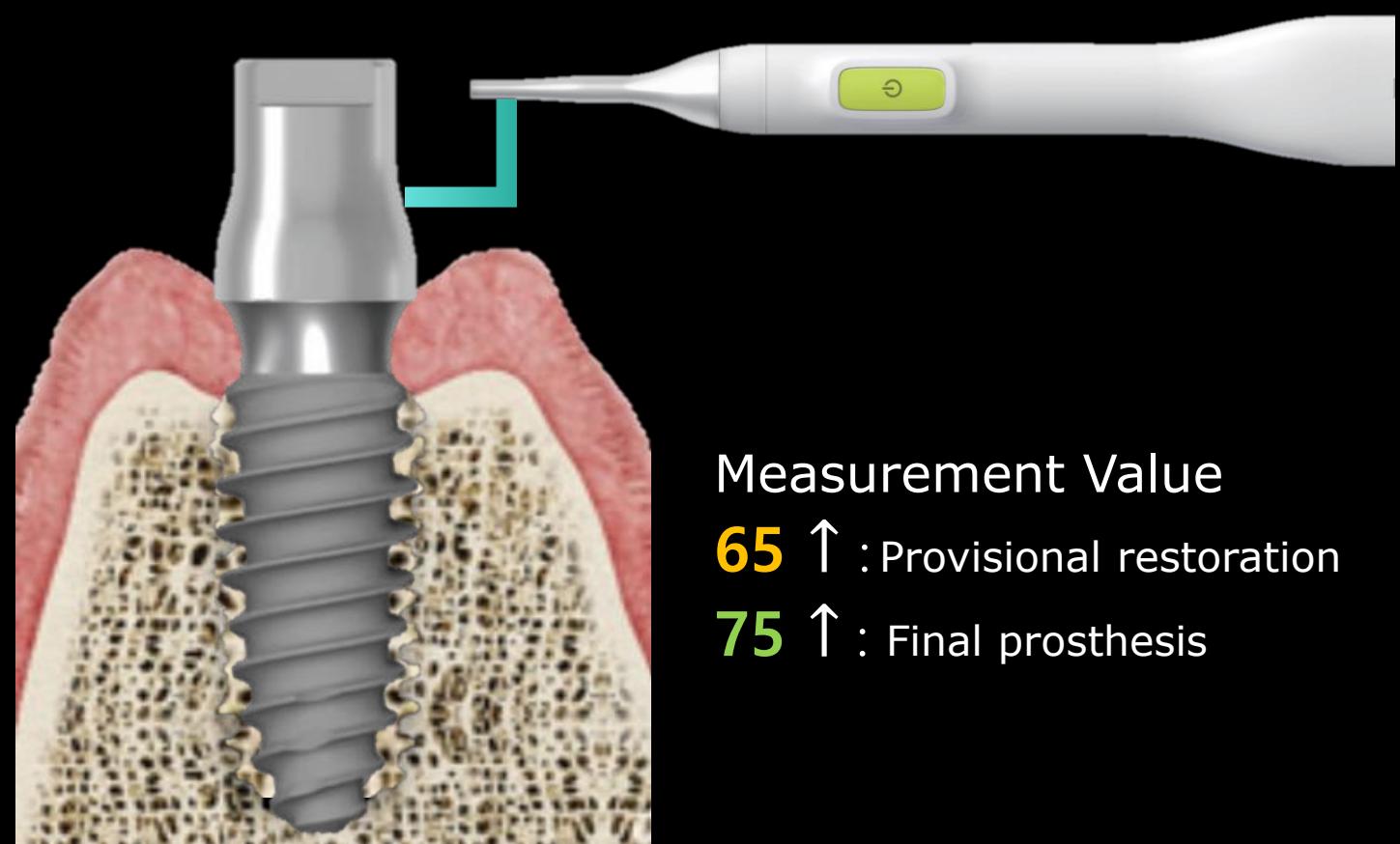


**Tissue** Level



# BOS Clinical Case w.BTS

## The Trust (ISV) Measurement



Measurement Value

**65 ↑** : Provisional restoration

**75 ↑** : Final prosthesis

Healing Photo after 20 days

# ISV (Implant Stability Value)?

Instrument for assessing implant stability and osseointegration

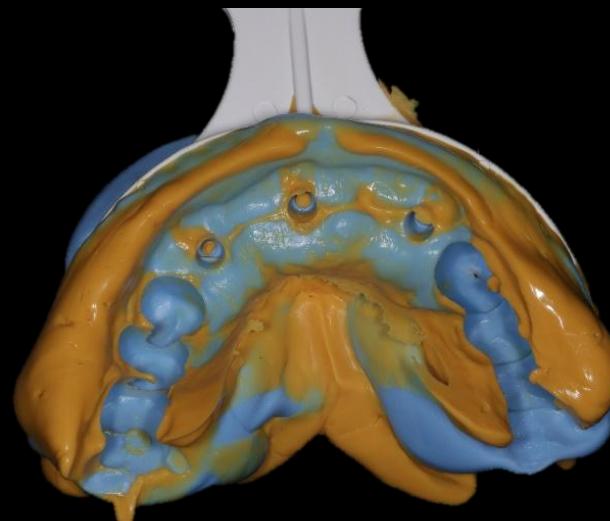
## the Trust

A method of measuring ISV (Implant Stability Value)  
by directly tapping the healing abutment without any additional attachments.



# BOS Clinical Case w.BTS

**BTS** for Abutment + Temporary



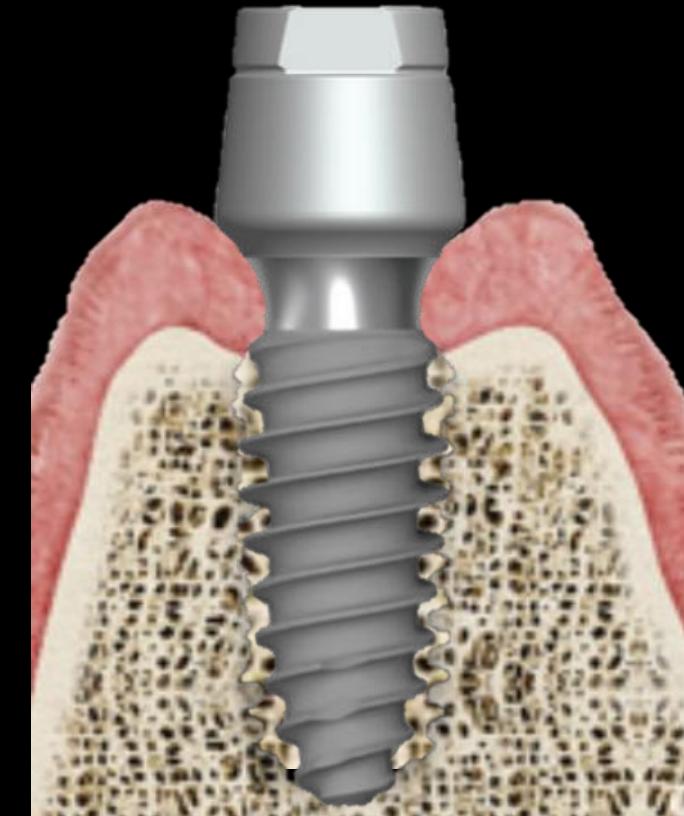
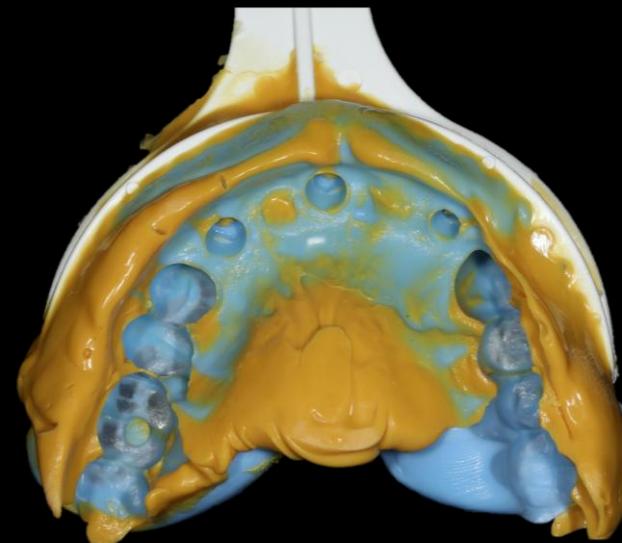
Bite Tray Impression



Healing Photo after 20 days

# BOS Clinical Case w.BTS

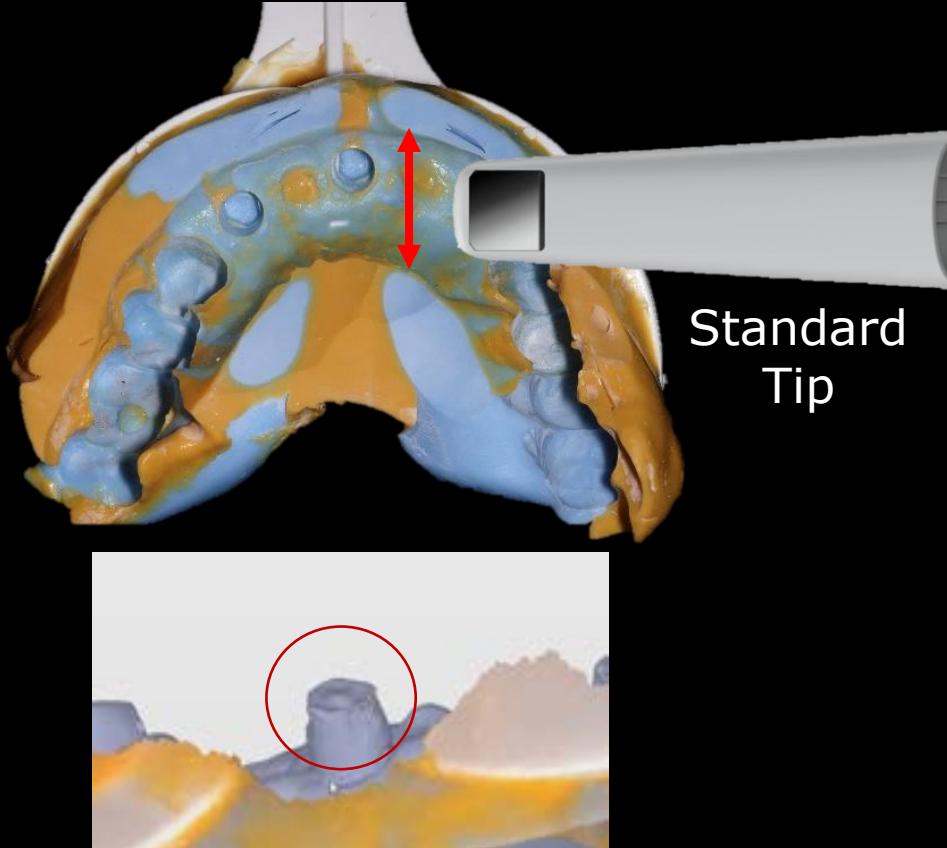
**BTS** for Digital Abutment + Zirconia DEL



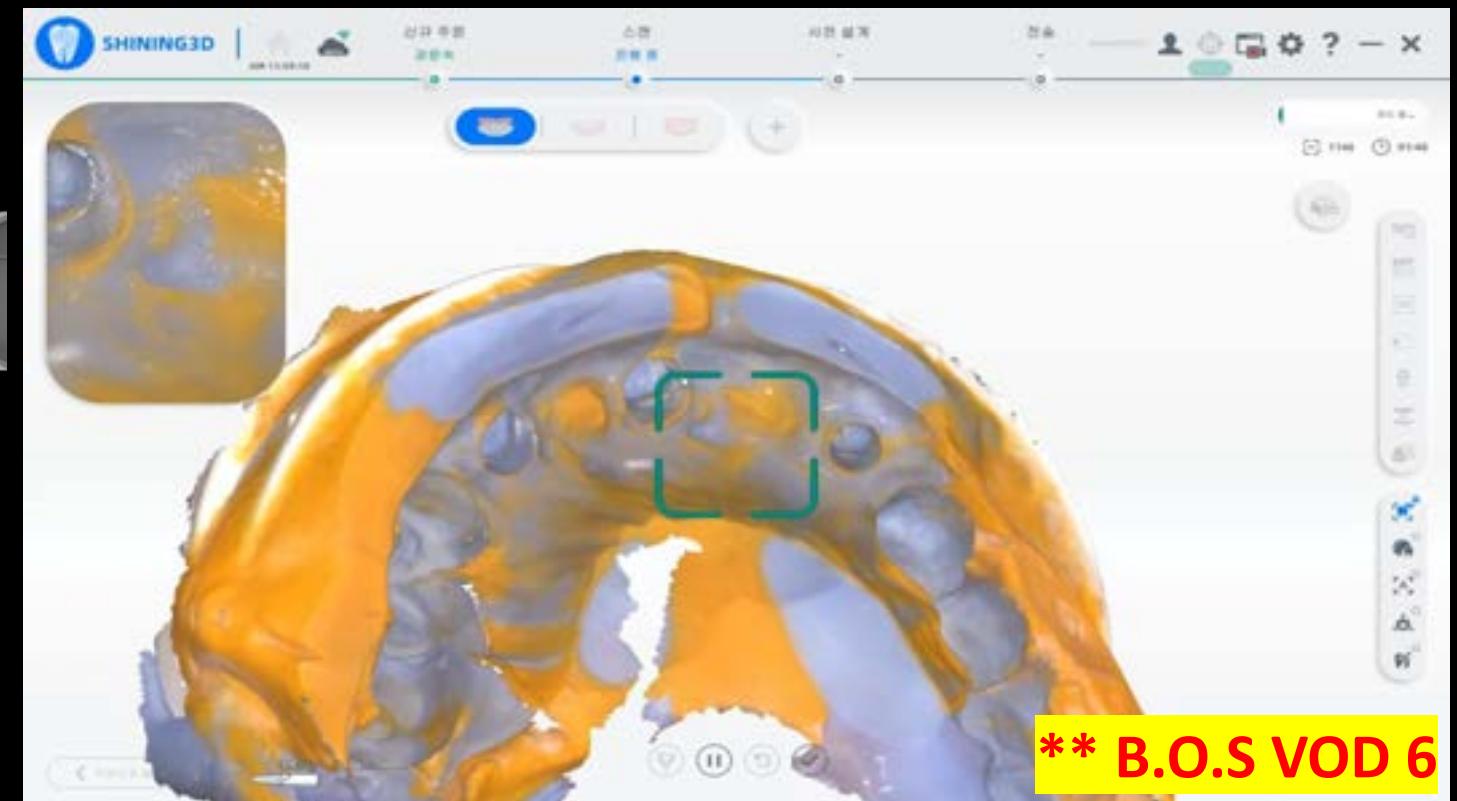
Digital Abutment & Final Impression

# BOS Clinical Case w.BTS

BOS (Bite Tray impression scanning With IOS)

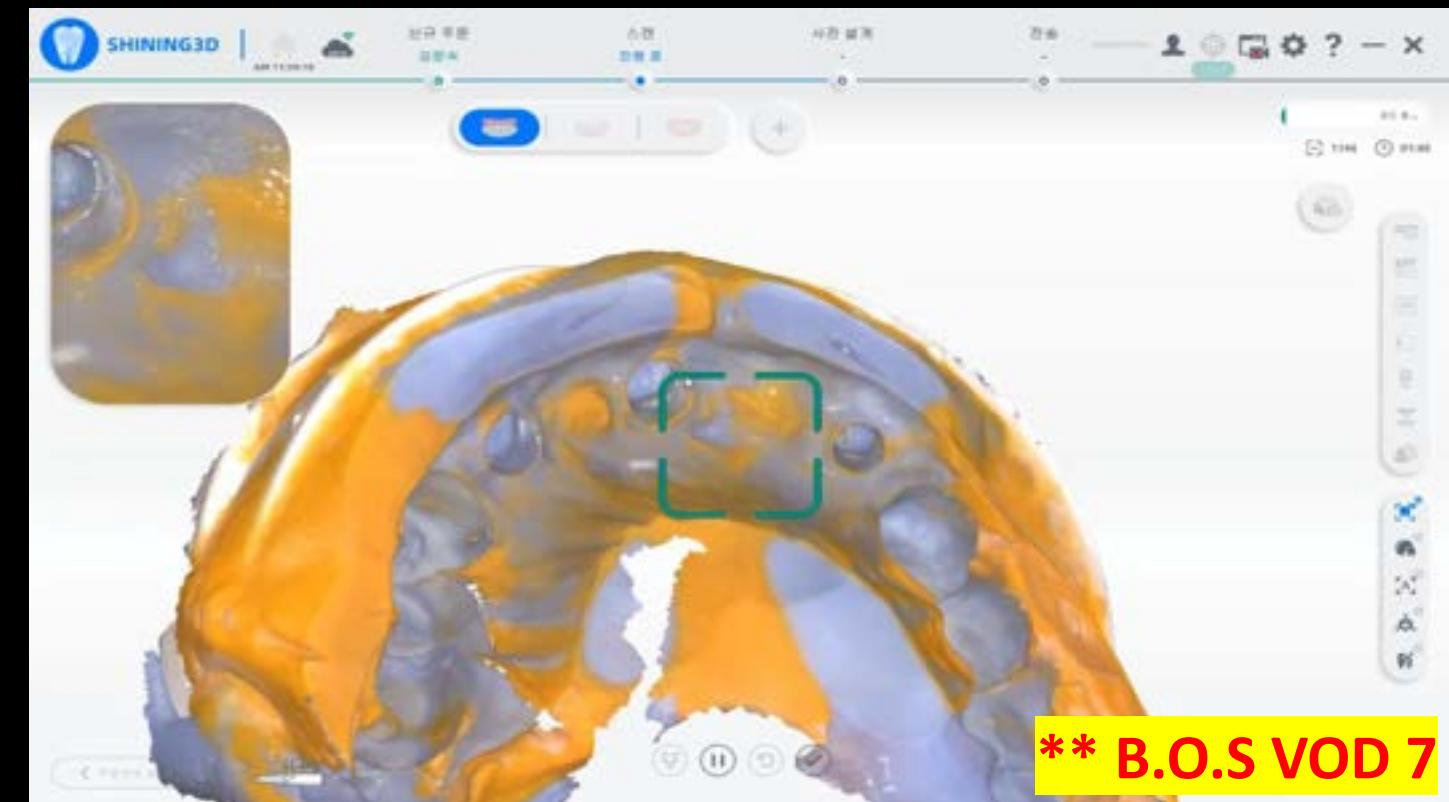
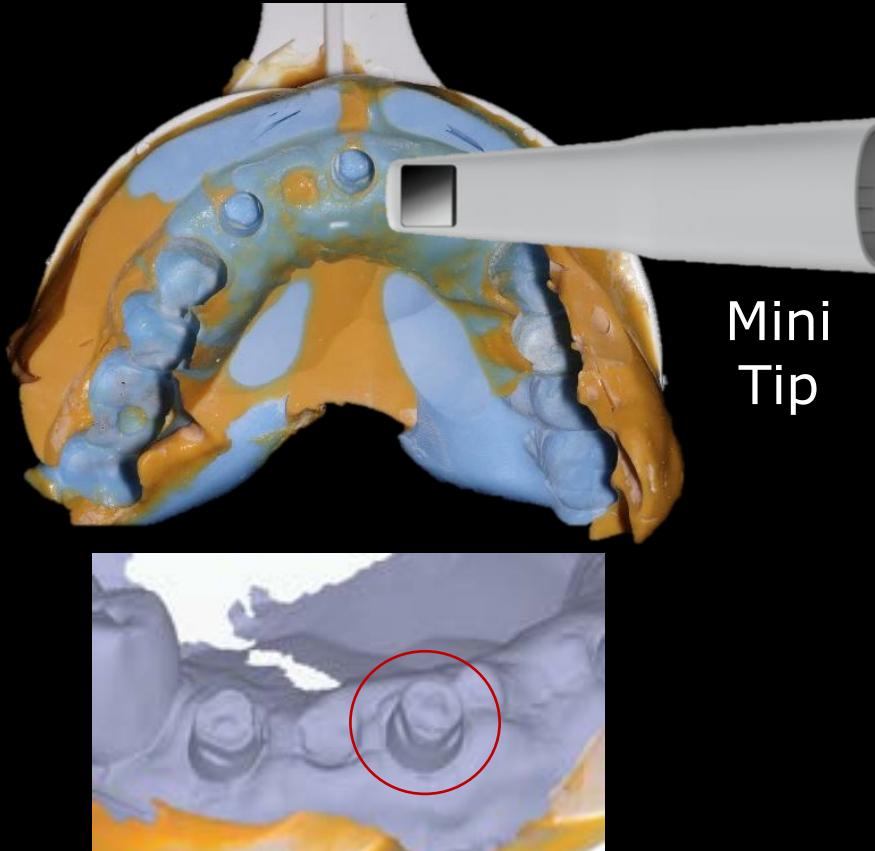


Standard  
Tip



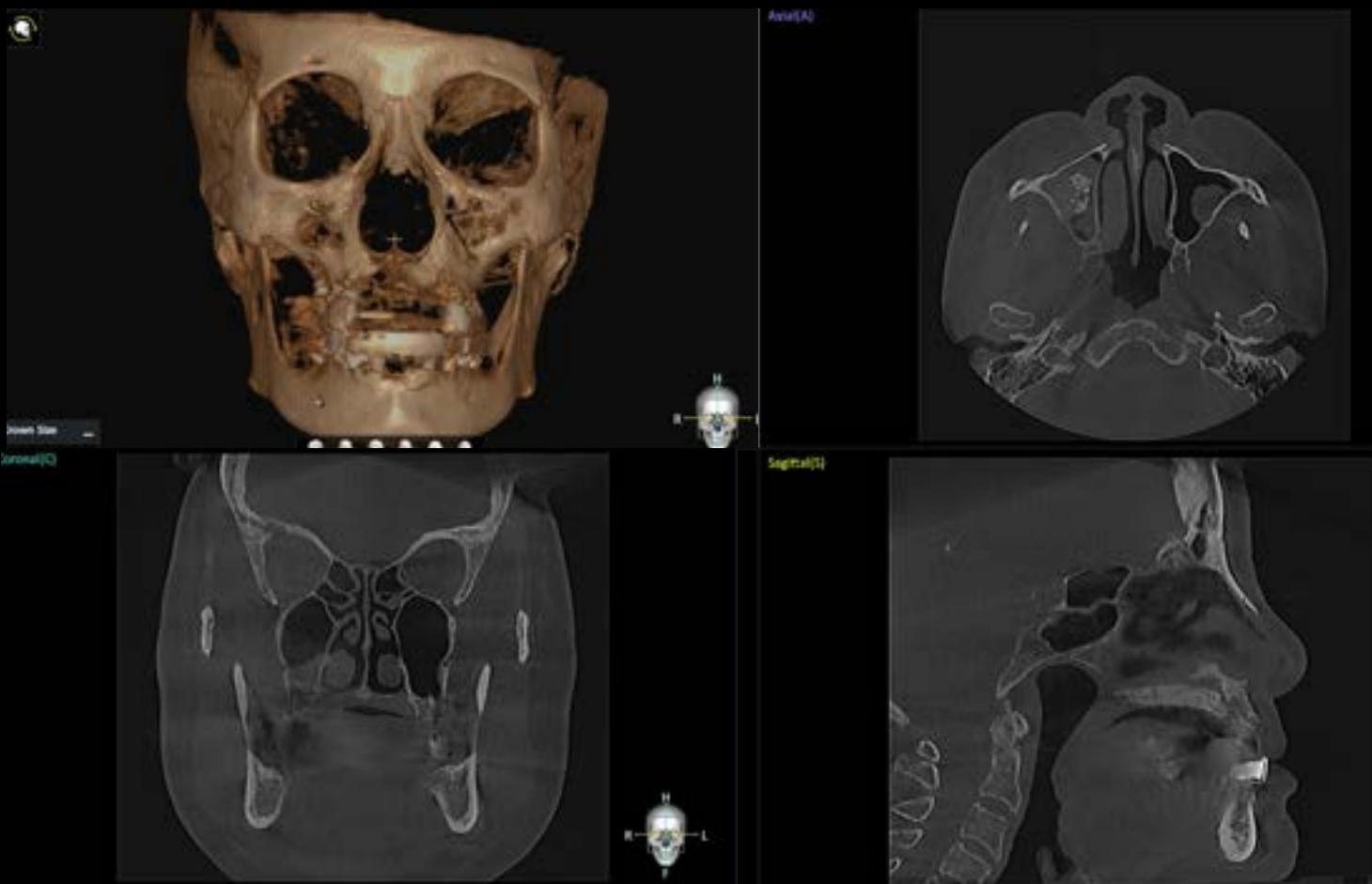
# BOS Clinical Case w.BTS

BOS (Bite Tray impression scanning With IOS)



# BOS Clinical Case w.BTS

CT Data



# BOS Clinical Case w.BTS

Panorama



# Full Mouth Clinical Case

Age: 70s / F

CC : Implant Consultation Requested

Plan)

7	5	4		6	Implant Surgery		
7	5	4	3	3	4	5	7

Natural teeth & ALL Crown (VD Up)



PANORAMA

# Full Mouth Clinical Case

## 1 Preparation before Surgery

- Stent Fabrication using Existing Denture (w. Intra Oral Scan and CT Scan)



SCAN (PrimeScan)



Using Mandibular Denture for **IMP**  
→ Ensure Retention of FULL Mandibular Denture  
→ Marking for CT Scan

# Full Mouth Clinical Case

1 Preparation before Surgery

- CT Taking with Marked Denture



Existing Maxillary RPD  
Replication & Hole Formation  
→ Position CK using Stopper



Mandibular Surgical Stent  
#43 #33

# Full Mouth Clinical Case

## 1 Preparation before Surgery

- CT Taking with Marked Denture



Existing Maxillary RPD  
Replication & Hole Formation  
→ Position CK using Stopper



CT Taking



# 17



# 15



# 14



# 26

# Full Mouth Clinical Case

2 Maxillary Implant Surgery



Pre -OP



Adaptation of Replicated Denture



bright Tissue Level



#14  $\varnothing 3.5 \times 11.0$   
#15  $\varnothing 4.0 \times 11.0$   
#17  $\varnothing 5.0 \times 11.0$

Post – OP

# Full Mouth Clinical Case

2 Maxillary Implant Surgery



Pre -OP



Adaptation of Replicated Denture



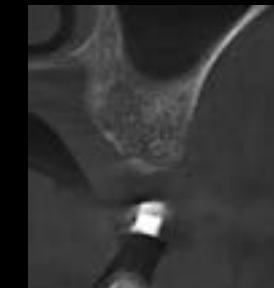
# 17



# 15



# 14



# 26

Pre -OP



bright Tissue Level



# 17



# 15



# 14



# 26

Post - OP

# Full Mouth Clinical Case

## 3 1<sup>st</sup> Maxillary Implant Surgery

- Implant Placement at #43 #33, with Existing FD Ball Abutment



Pre -OP



bright Tissue Level

#43 Ø **3.5 × 11.0**   #33 Ø **4.0 × 11.0**



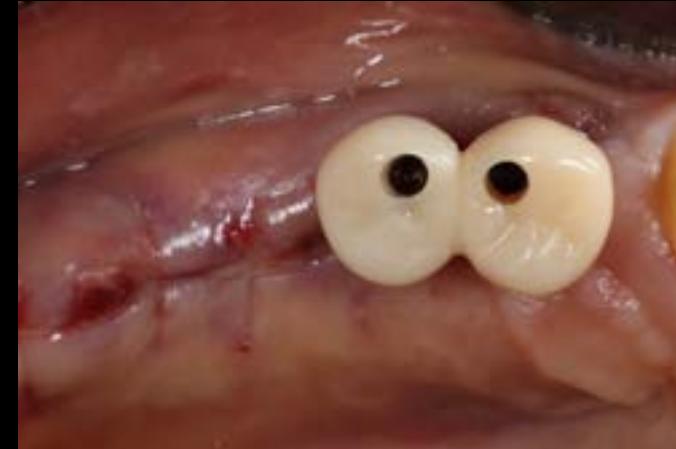
PANORAMA

# Full Mouth Clinical Case

4 Intra Oral Scan & Provisional Restoration



SCAN (w. Prime Scan)



Abutment + Temporary DEL



# Full Mouth Clinical Case

5 2<sup>nd</sup> Mandibular Implant Surgery



Pre - OP



bright Tissue Level  
#40s Bone Graft  
+Osteon 3 Collagen  
+Collagen Graft x1D  
+PDRN



Post - OP

#44 Ø **3.5 × 9.0** #34 Ø **3.5 × 9.0**  
#45 Ø **3.5 × 9.0** #35 Ø **4.0 × 9.0**  
#47 Ø **4.5 × 7.0** #37 Ø **4.5 × 7.0**

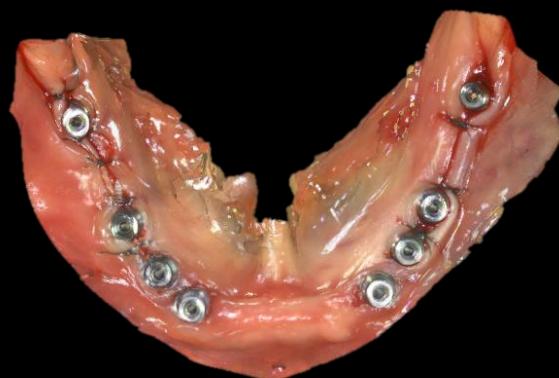
# Full Mouth Clinical Case

CT & PANORAMA



# Full Mouth Clinical Case

6 Intra Oral Scan & Provisional Restoration



SCAN



After 1 week : Abutment + Provisional Crown DEL  
(Temporary Crown Fabrication with Existing Denture Bite)

# Full Mouth Clinical Case

7 VD UP Temporary Crown Preparation (w. Putty Index)



All Scan Comfort CAP



Putty Index



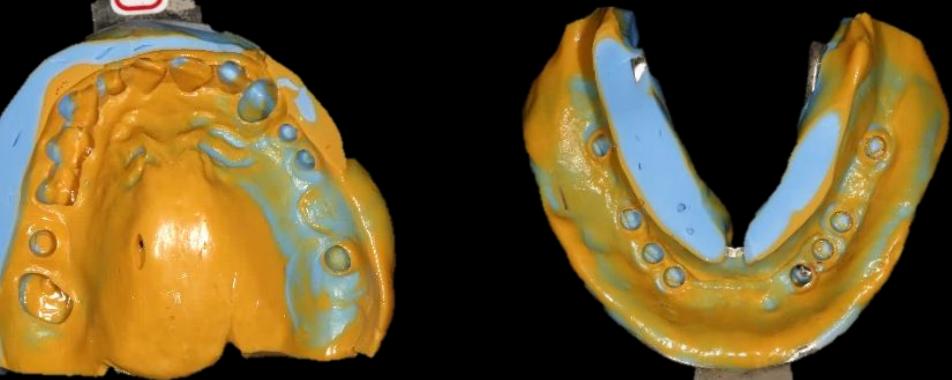
CT Taking (Stitching Mode)  
\*\*CT Scan without Bite Stick\*\*

# Full Mouth Clinical Case

7 VD UP Temporary Crown Preparation (w. Putty Index)



Putty Index



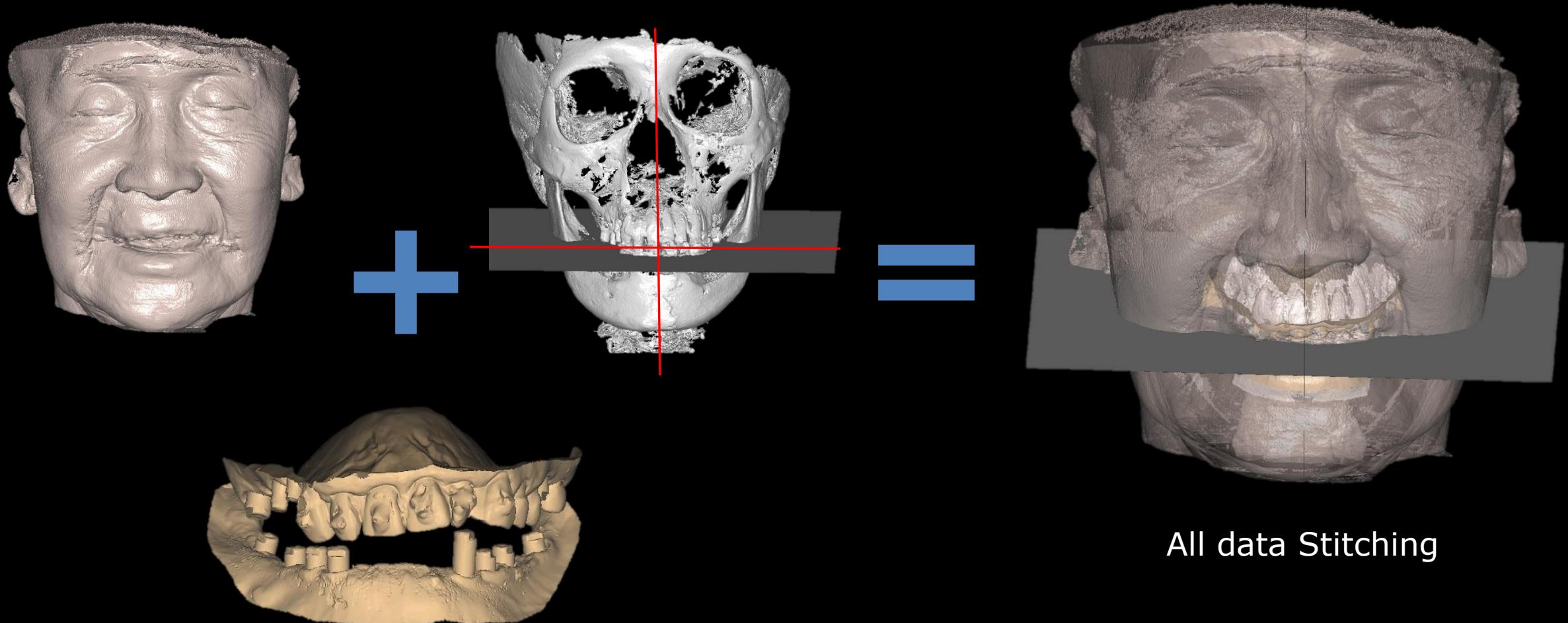
**Partial Impression**

→ Sent to the Lab Without a Separate  
Bite Registration

All Scan Comfort CAP

# Full Mouth Clinical Case

CT STL export



All data Stitching

# Full Mouth Clinical Case

8 VD UP(1.5mm) Provisional Restoration



## Temporary Crown Delivery

- Anterior Open Bite Due to VD Increase, Cheek and Tongue Biting Symptoms
- Temporary Crown Planned After Orthodontic Finishing,
- Satisfied with Tongue Space and Facial Changes

# Full Mouth Clinical Case

9 Natural Tooth Preparation



Pre - op



Tooth Preparation



Aoralscan3 Wireless

# Full Mouth Clinical Case

9 Temporary Crown DEL on Natural Teeth  
→ VD Increased by 1.5mm



#43 #33  
Ti-base  
Hole Directed Lingually

# Full Mouth Clinical Case

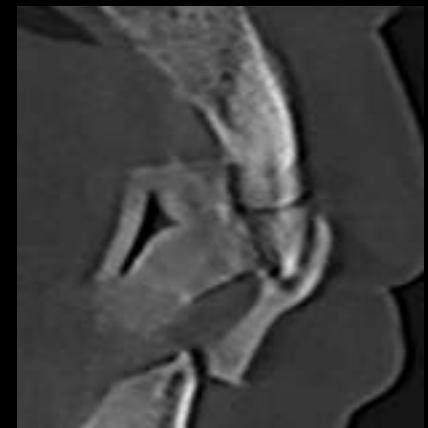
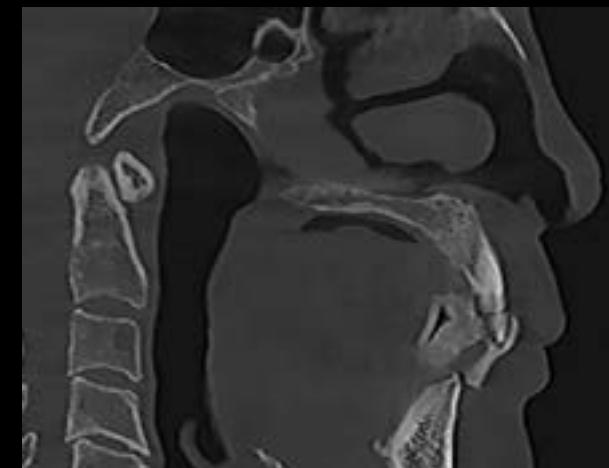
10 Final Impression & Delivery after 6 months



Shining 3D AoralScan3 Wireless



CT Taking (Stitching Mode)  
- Putty Index CK



# Full Mouth Clinical Case

10 Final Impression & Delivery  
after 6 months  
→ VD Increased by 1.5mm



# Full Mouth Clinical Case

\* VD Changes \*

Existing Denture Bite



1<sup>st</sup> VD UP (1.5mm)  
Provisional Crown



3<sup>rd</sup> VD UP (1.5mm)  
Permanent Crown



\* Total 4.5mm VD UP!! \*

# Full Mouth Clinical Case



PANORAMA

Thank you.



Dentium Clinic DH. SH Park