# MEDIT Scan for Clinics



ME-UG-702J

Revision 27.2 (2026.10)
SW version 1.14.5

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# Introduction

## Medit Scan for Clinics

Medit Scan for Clinics is a software program that offers a user-friendly interface to digitally record the topographical characteristics of teeth and the surrounding tissues using the scanner.

## Intended Use

The system is an intraoral 3D scanner intended to digitally record the topographical characteristics of teeth and surrounding tissues. The system produces 3D scans for use in computer-assisted design and manufacturing of dental restorations.

## Contraindications

This scanner is not designed to acquire images of the internal structure of teeth or supporting skeletal structures.

## Qualifications of Operating User

This scanner should be used by trained dental professionals and dental laboratory technicians. The user of this scanner is solely responsible for determining whether or not this scanner is suitable for a particular patient case. The user is solely responsible for the accuracy, completeness, and adequacy of any data obtained by the scanner and the accompanying software. The user must verify the accuracy and adequacy of results for appropriate treatment. The system must be used in accordance with the user guide and the cautions. Additionally, the user should not modify or change the system. Improper use or handling of the system will void any warranty. For more information on how to use the system properly, please contact your local distributor.

# System Requirements

## Recommended System Requirements

<table>
<tr><th></th><th colspan="2">Windows</th><th>macOS</th></tr>
<tr><th></th><th>Laptop</th><th>Desktop</th><th>Laptop/Desktop</th></tr>
<tr><td rowspan="2">Processor</td><td>Intel Core i7 - 14700HX<br>Intel Core i7 - 13700H<br>Intel Core Ultra 7 155H<br>or higher</td><td>Intel Core i7 - 14700K<br>Intel Core i7 - 13700K<br>or higher</td><td rowspan="2">M1 Pro (10-Core CPU, 16-core GPU)<br>M2 (8-Core CPU, 10-core GPU)<br>M2 Pro (10-Core CPU, 16-core GPU)<br>M3 (8-Core CPU, 10-core GPU)<br>M3 Pro (10-Core CPU, 16-core GPU)<br>or higher</td></tr>
<tr><td>AMD Ryzen 7 8745H<br>AMD Ryzen 7 7735H<br>or higher</td><td>AMD Ryzen 7 8700F<br>AMD Ryzen 7 7700X<br>or higher</td></tr>
<tr><td>RAM</td><td colspan="2">32 GB or higher</td><td>24 GB or higher</td></tr>
<tr><td>Graphics</td><td colspan="2">NVIDIA GeForce RTX 5060 (VRAM 8 GB or higher)<br>* only compatible with Medit Scan for Clinics v1.13.3 and above<br><br>NVIDIA GeForce RTX 4060 (VRAM 8 GB or higher)<br>NVIDIA GeForce RTX 3070 (VRAM 8 GB or higher)<br>NVIDIA RTX A3000 (VRAM 8 GB or higher)<br>or higher<br><br>* AMD Radeon is not supported</td><td>-</td></tr>
<tr><td>OS</td><td colspan="2">Windows 10 64-bit<br>Windows 11 (recommended for 12th Gen or later Intel Core processors)<br>or later</td><td>Sonoma 14<br>Sequoia 15<br>or later</td></tr>
</table>

## Minimum System Requirements

<table>
<tr><th></th><th colspan="2">Windows</th><th>macOS</th></tr>
<tr><th></th><th>Laptop</th><th>Desktop</th><th>Laptop/Desktop</th></tr>
<tr><td rowspan="2">Processor</td><td>Intel Core i5-14500HX<br>Intel Core i5-13500H<br>Intel Core Ultra 5-125H<br>or higher</td><td>Intel Core i5-14400<br>Intel Core i5-13400<br>or higher</td><td rowspan="2">M3 (8-core CPU, 8-core GPU)<br>or higher</td></tr>
<tr><td>AMD Ryzen 5 8640H<br>AMD Ryzen 5 7640H<br>or higher</td><td>AMD Ryzen 5 8600G<br>AMD Ryzen 5 7600<br>or higher</td></tr>
<tr><td>RAM</td><td colspan="2">16 GB or higher</td><td>16 GB or higher</td></tr>
<tr><td>Graphics</td><td colspan="2">NVIDIA GeForce RTX 4050 (VRAM 6 GB or higher)<br>NVIDIA GeForce RTX 3060 (VRAM 6 GB or higher)<br>NVIDIA RTX A2000 (VRAM 6 GB or higher)<br>or higher<br><br>* AMD Radeon is not supported</td><td>-</td></tr>
<tr><td>OS</td><td colspan="2">Windows 10 64-bit<br>Windows 11 (recommended for 12th Gen or later Intel Core processors)<br>or later</td><td>Sonoma 14<br>Sequoia 15<br>or later</td></tr>
</table>

🔎**Note**

Medit i500 is not supported on macOS.

# Installation of Medit Scan for Clinics

## Installation

Medit Scan for Clinics is installed as a package with Medit Scan for Labs when you install Medit Link.

Please refer to Medit Link > Installation > Installation on Windows or Installation on macOS for installation instructions.

> ⚠️**Caution**
>
> The scanner may not function properly if you do not restart your PC after installation.

# Updates

## Software Update

When you run Medit Link, the program checks for updates. The latest version is automatically updated if you have an internet connection.

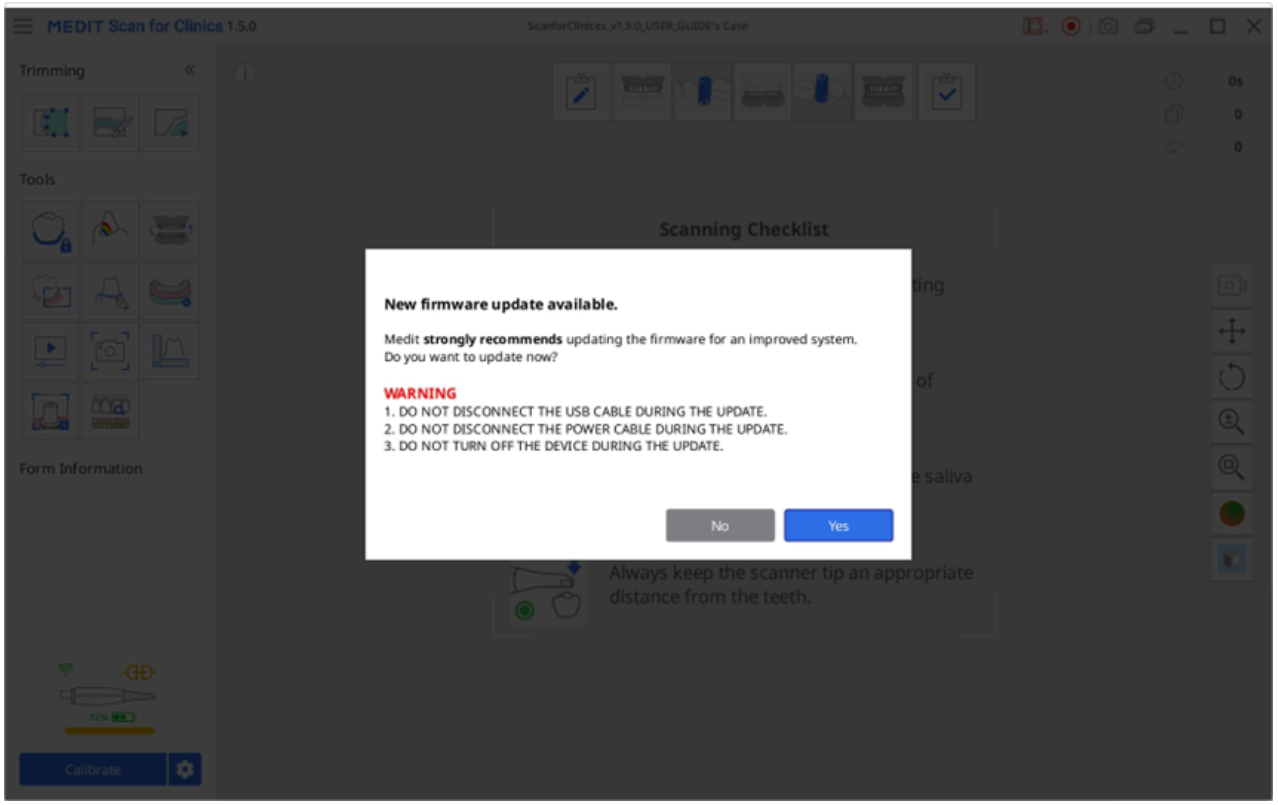
Medit Scan for Clinics and Medit Scan for Labs are updated to the latest version when a new Medit Link is installed.

## Firmware Update

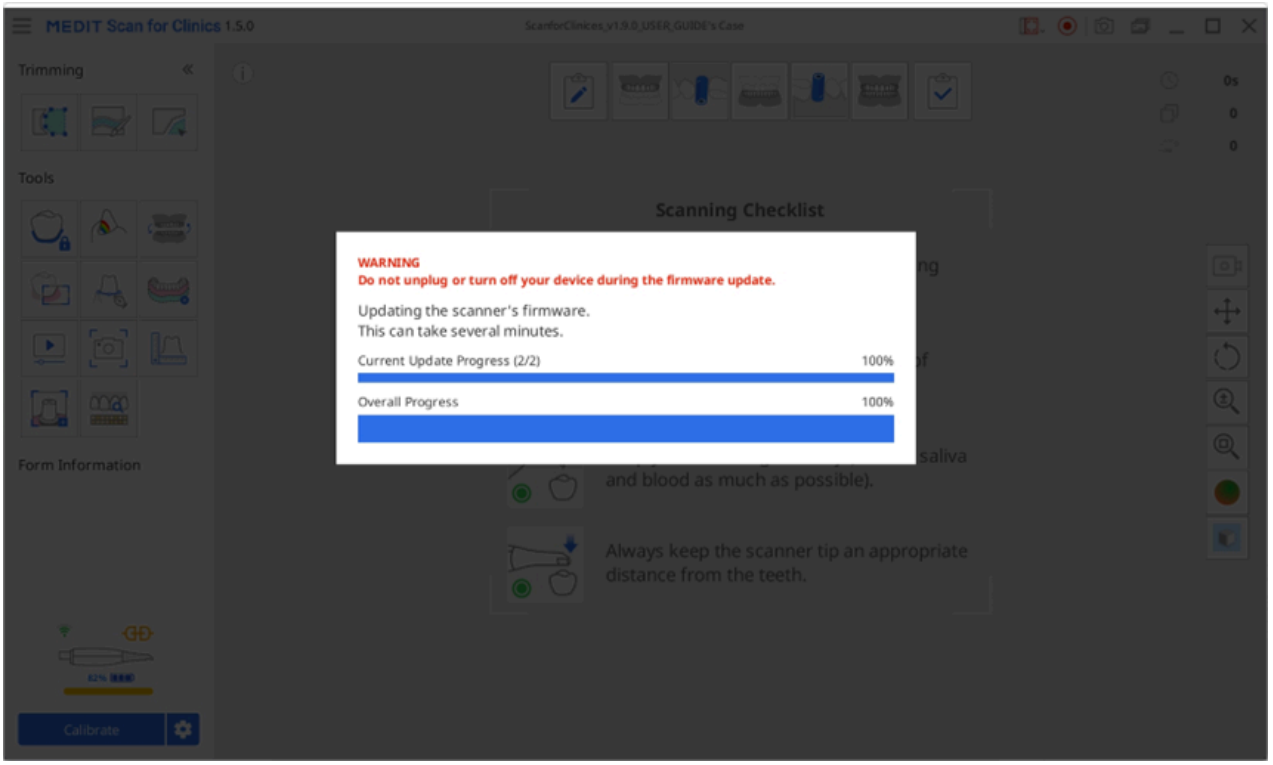
We recommend you keep the firmware version of your wireless hub up to date to utilize new features and improvements. You can still use the existing functions even if you do not immediately proceed with the firmware update.

The program automatically installs the latest firmware when a new update is available as follows:

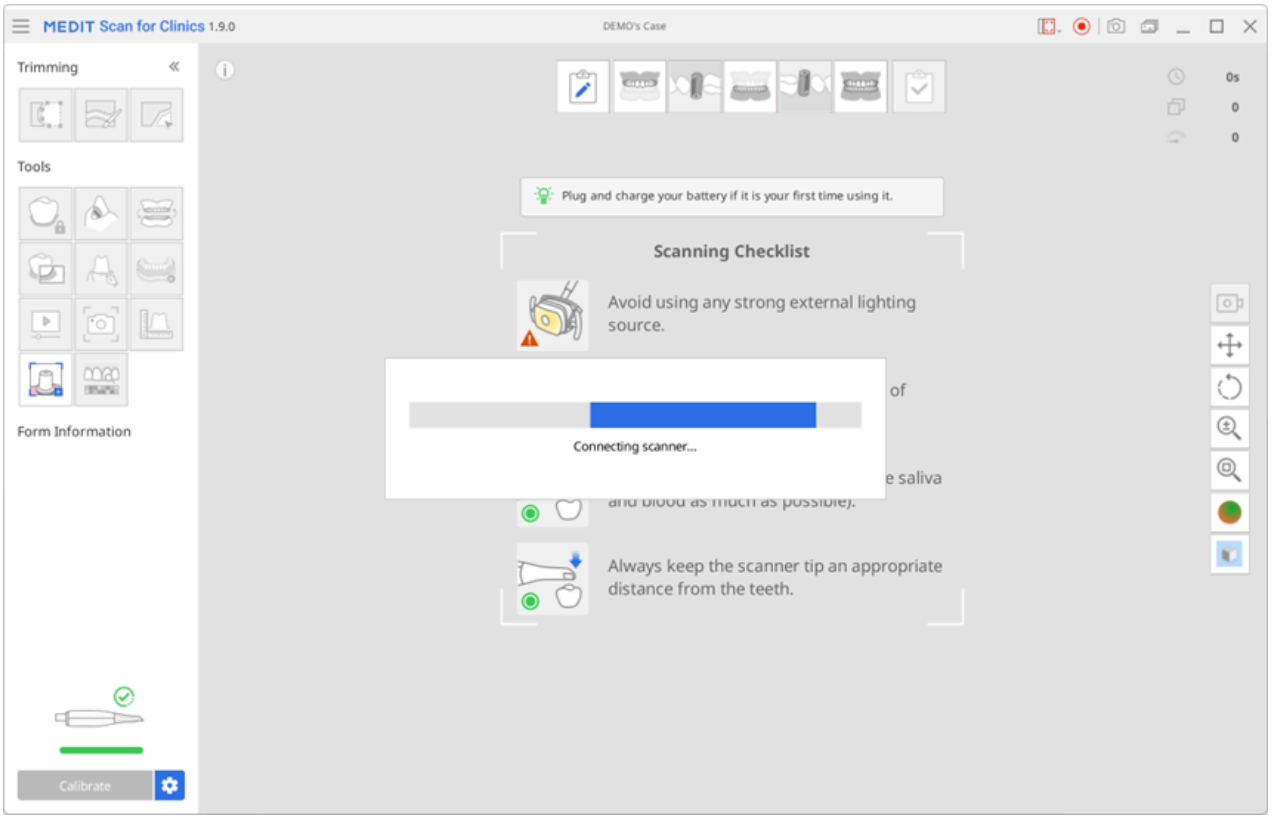
1. If you are using a wireless scanner, connect the wireless hub and the PC with a cable and check if your scanner is connected to the wireless hub.
2. Run Medit Scan for Clinics.
3. The following dialog appears when new firmware is available.




4. Click "Yes" to continue firmware updating.




5. When the firmware is updated, the program will try to connect the scanner again.



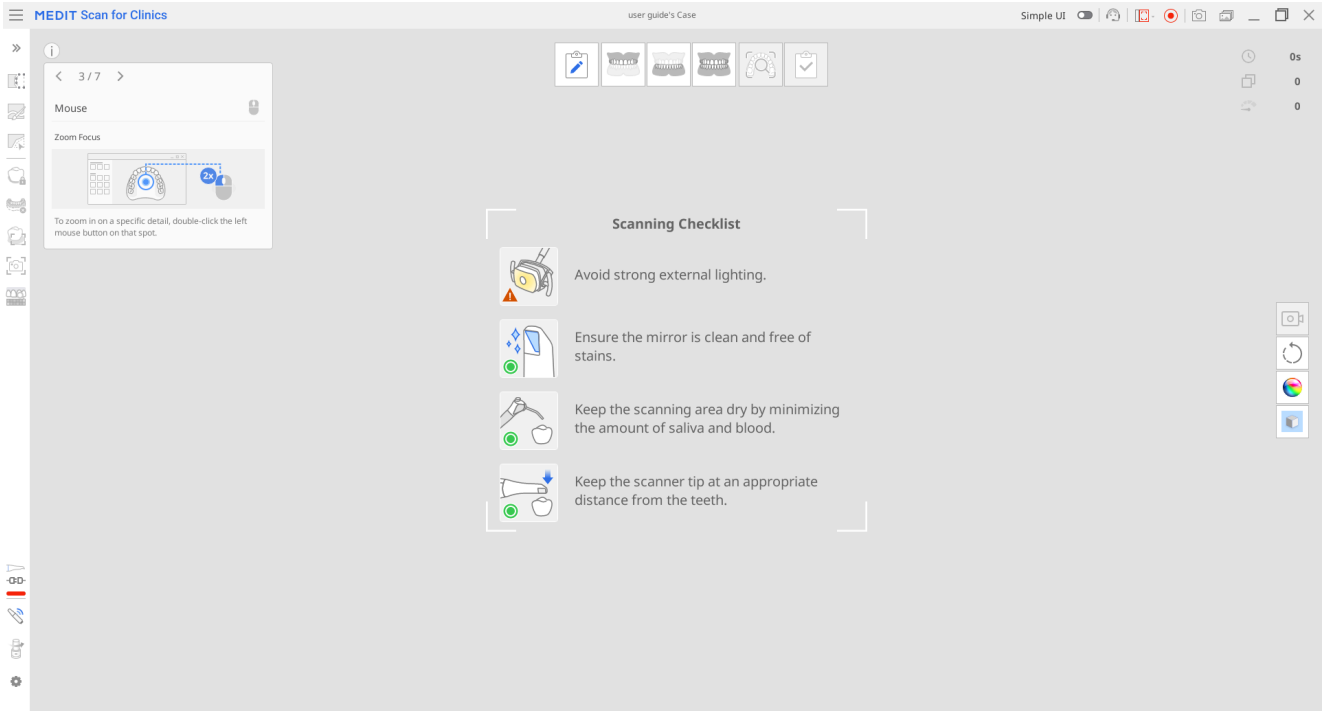

6. You can check your current firmware version on Menu > About > Firmware Version.

> 🔎**Note**
>
> - For wireless scanners, the update can be stopped if the hub is disconnected from the local PC or the scanner has a low battery. In this case, you can update firmware by reconnecting the hub to the PC and rerunning the program.

- For wired scanners, you might encounter an error message if your scanner fails to reboot despite the firmware update completing successfully. In this case, we suggest rebooting the scanner by unplugging and replugging the cable and then checking the scanner status.

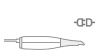
# Scanner Connection

When you run Medit Scan for Clinics, you can check your scanner status and, if you use a wireless scanner, wireless hub status at the bottom left corner of the screen.




# Scanner Status

The following are indications of the scanner status:

| Model/ Status | Not Connected | No Tip | Connecting | Rebooting | Calibration Required | Ready | Scanning | Sleep | Overheating |
|---|---|---|---|---|---|---|---|---|---|
| i500 |  | N/A |  |  |  |  |  |  |  |
| i600 |  |  |  |  |  |  |  | N/A |  |
| i700 |  |  |  |  |  |  |  | N/A |  |
| i700 wireless |  |  |  |  |  |  |  |  |  |
| i900 |  |  |  |  |  |  |  |  |  |

| Model/ Status | Not Connected | No Tip | Connecting | Rebooting | Calibration Required | Ready | Scanning | Sleep | Overheating |
|---|---|---|---|---|---|---|---|---|---|
| i900 classic |  |  |  |  |  |  |  |  |  |
| i900 Mobility |  |  |  |  |  |  |  |  |  |

| Model/ Status | Not Connected | No Tip | Connecting | Rebooting | Calibration Required | Ready | Scanning | Sleep | Overheating |
|---|---|---|---|---|---|---|---|---|---|
| iE* |  |  |  |  |  |  |  |  |  |

*iE scanner does not support the small tip.

# Hub Status

When you use a wireless scanner, the status of the wireless hub is displayed as shown below:

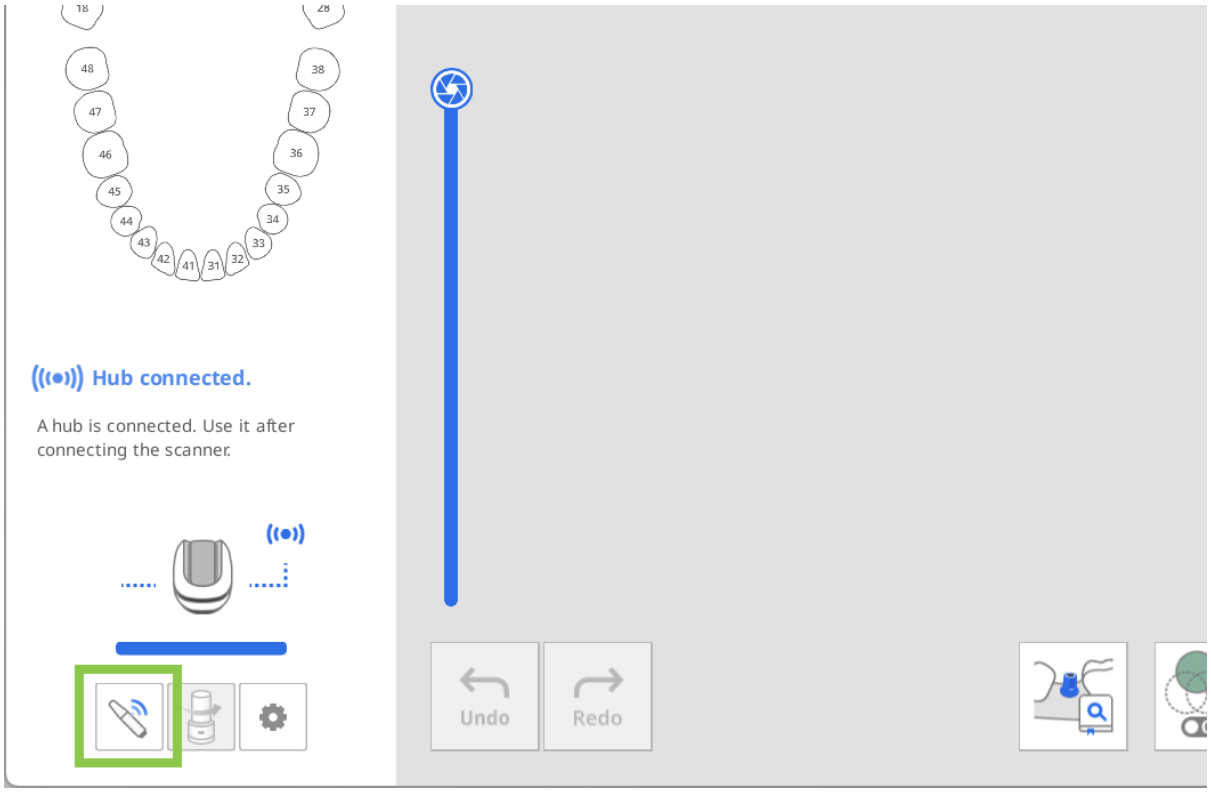
| Status Descriptions | i700 wireless | i900 Mobility |
|---|---|---|
| **Hub Connected:** The hub is connected to a scanner. |  |  |
| **Connecting:** The hub is connecting to the PC. |  |  |
| **Disconnected:** The hub is disconnected from a scanner. |  |  |

# Pairing Manager (i700 wireless, i900 Mobility)

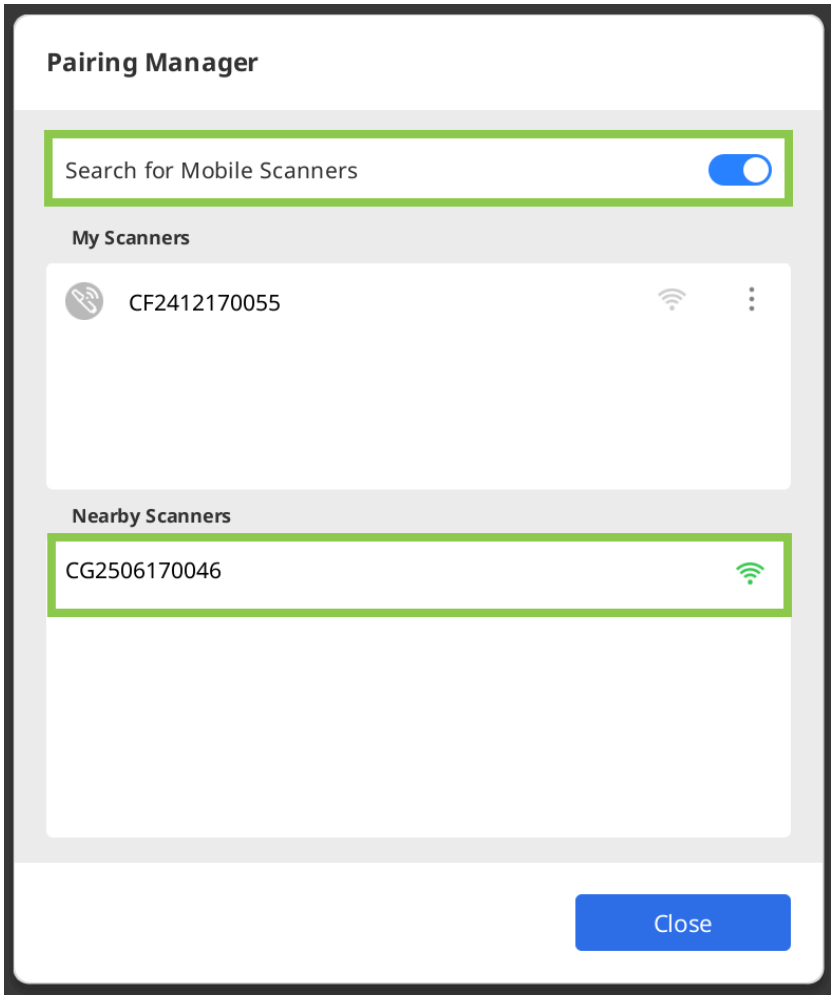
**Pairing i900 Mobility**

> 🔎**Note**
>
> To ensure smooth pairing process, check that the “Mobile Scanner Connection“ option in the scanner settings is enabled.

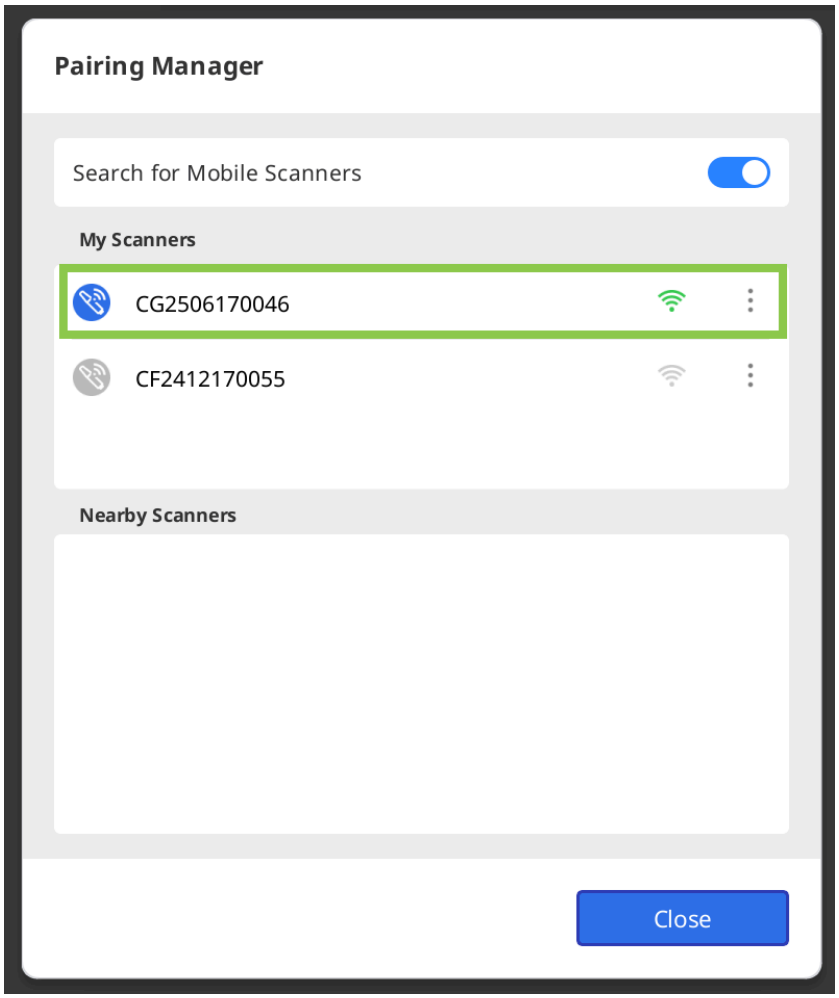
1. Connect the hub to your computer; once connected, the “Pairing Manager” icon will appear in the bottom-left corner of the screen as shown in the image below.



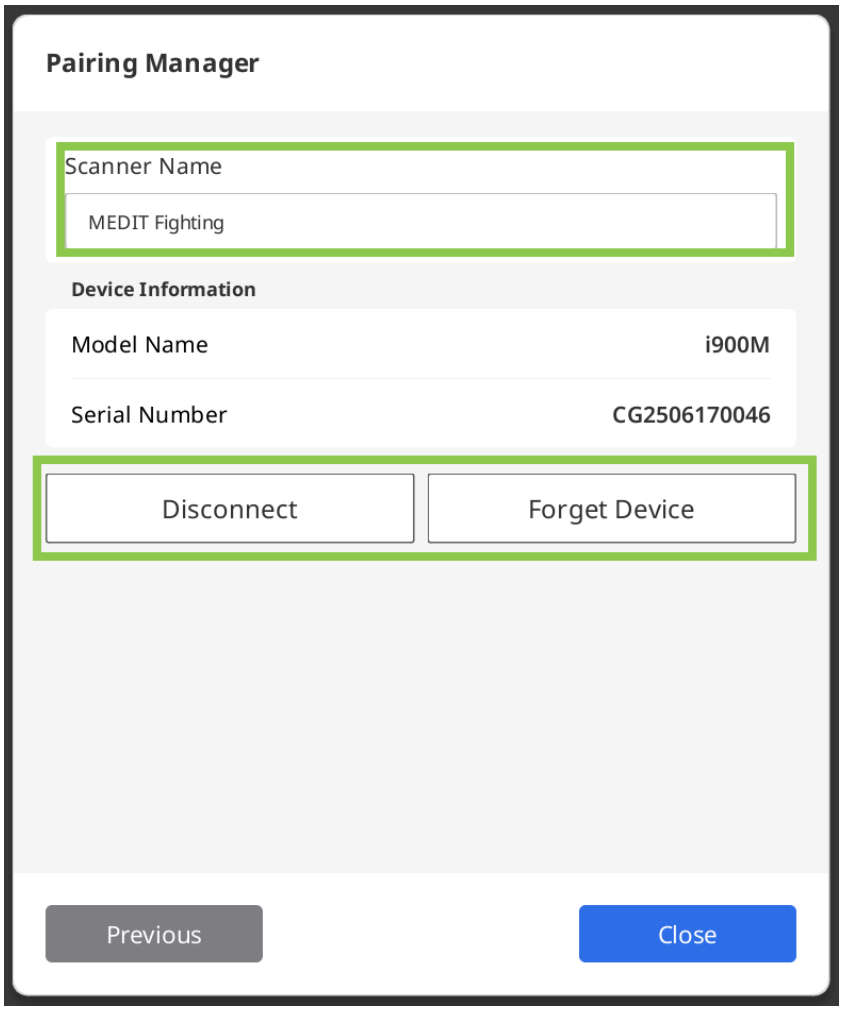

2. Open “Pairing Manager” and enable the “Search for Mobile Scanners” toggle. Next, turn on your scanner — it will appear under the nearby scanners section.
   The program will automatically detect all nearby i900 Mobility devices. Identify the scanner you want to connect to by its serial number, then click it to pair.




3. Once the scanner is paired, it will be remembered and automatically reconnect the next time it is turned on.

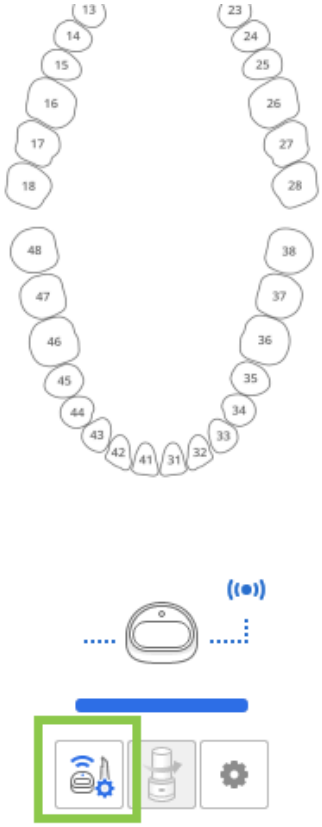


4. When using multiple scanners, you can manage each one using the menu button next to its name. Click the button to rename the scanner (e.g., from its serial number to a custom name), disconnect it, or forget the device.



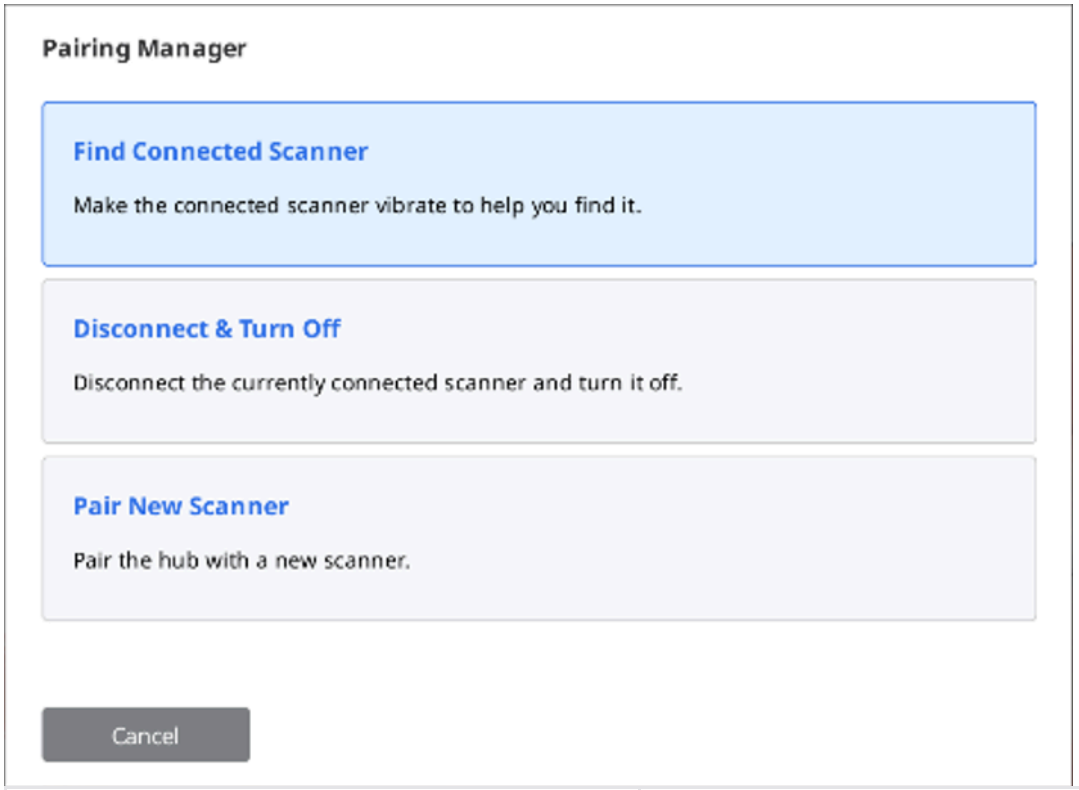

**Pairing i700 wireless**

1. Connect the hub to your computer; once connected, the “Pairing Manager” icon will appear in the bottom-left corner of the screen as shown in the image below. If a previously paired scanner is nearby, it will connect automatically, allowing you to begin scanning immediately.






2. Open the "Pairing Manager" to control connection with already paired scanner or to pair a new scanner.

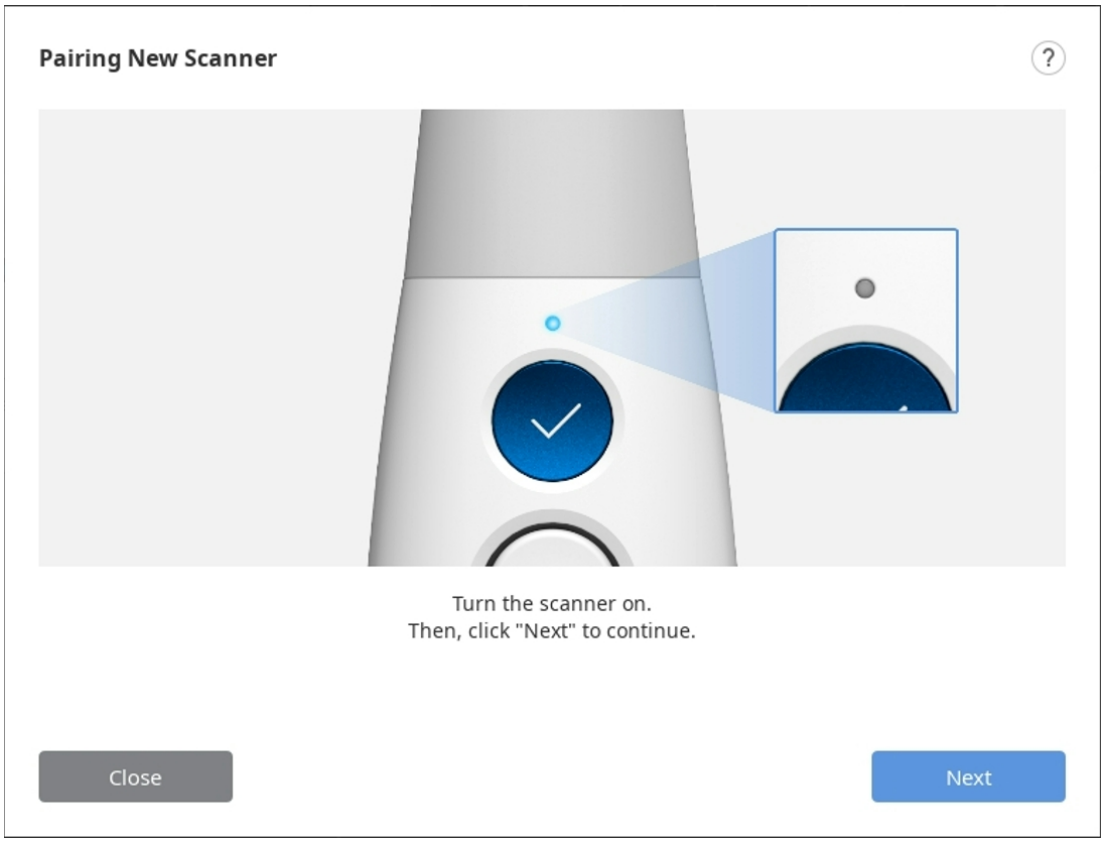



| | |
|---|---|
| Find Connected Scanner | Make the paired scanner vibrate to help you find it. |
| Disconnect & Turn Off | Disconnect the currently paired scanner and turn it off. |
| Pair New Scanner | Pair the wireless hub with a new scanner. |

3. To manually connect a new scanner, choose "Pair New Scanner" option and follow the detailed instructions on the screen.

⚠️**Caution**

To avoid pairing issues, do not interrupt communication between the scanner and the hub—keep the battery in, the hub connected, and don't cover the end of the handpiece with your hand.




4. Once the scanner is paired, you can check the scanner connection status in the bottom left corner.

# Switch & Scan (i700 wireless only)

Switch & Scan is to register a single scanner to two or more wireless hubs and switch connections between hubs. This feature allows you to carry a scanner from room to room and connect to any wireless hub in your clinic.

First, you need to register the device information of your scanner and wireless hub by manual pairing. Unregistered scanners and wireless hubs cannot connect with each other, no matter how strong the connection signal is.

1. Make sure your firmware is up to date before using the Switch & Scan feature.
2. If you connect with a new hub that has never connected to your scanner, manual pairing is required to register the scanner to the new hub.
3. Make sure both your scanner and the hub to connect with are turned on. You can connect the scanner and the wireless hub without running the Medit Scan for Clinics.
4. Press the center of the Control button for more than two seconds.

5. The scanner will vibrate briefly three times. That means you are ready to use Switch & Scan.
6. The scanner generates a short vibration when successfully connected to a wireless hub.
7. Run the program and start scanning.

> ⚠️**Caution**
>
> - If you have multiple wireless hubs in an unclosed workspace, the scanner may be connected to a hub other than the one you want to connect to.
> - If you try to connect between two wireless hubs, the scanner may be connected to a hub other than the one you want to connect to.
> - If the scanner fails to connect, get closer to the wireless hub you want to connect to and try again to connect by pressing the center of the Control button for more than two seconds.

# Scanner Calibration

## Intraoral Scanner Calibration

> 🔎**Note**
>
> It is recommended to calibrate the device periodically.
>
> Go to Menu > Settings > Scanner and configure the calibration period in the Calibration Period (Days) option.

Calibration is recommended for proper scanning and performance of the device.

Please calibrate the scanner when:

- The quality of scan data has decreased as compared to the previous scans.
- The external conditions, such as device temperature, changed during use.
- It is already past the configured calibration period.

> ⚠️**Caution**
>
> The calibration panel is a delicate component. Please do not touch it.
>
> If the calibration fails, inspect the panel and contact the service provider if it is contaminated.

Please note that the accuracy of scan data increases if the temperature of the scanner during calibration is similar to the temperature while scanning.

Let your scanner warm up before calibration to reach the same temperature as it will be during scanning.

## How to Calibrate (i500, i600, i700, i700 wireless)

The following describes how to calibrate based on the i700. Other scanner models, like the i500/i600/i700 wireless, can be calibrated in the same way. For the i900/i900 classic/iE calibration, please refer to the corresponding section following below.

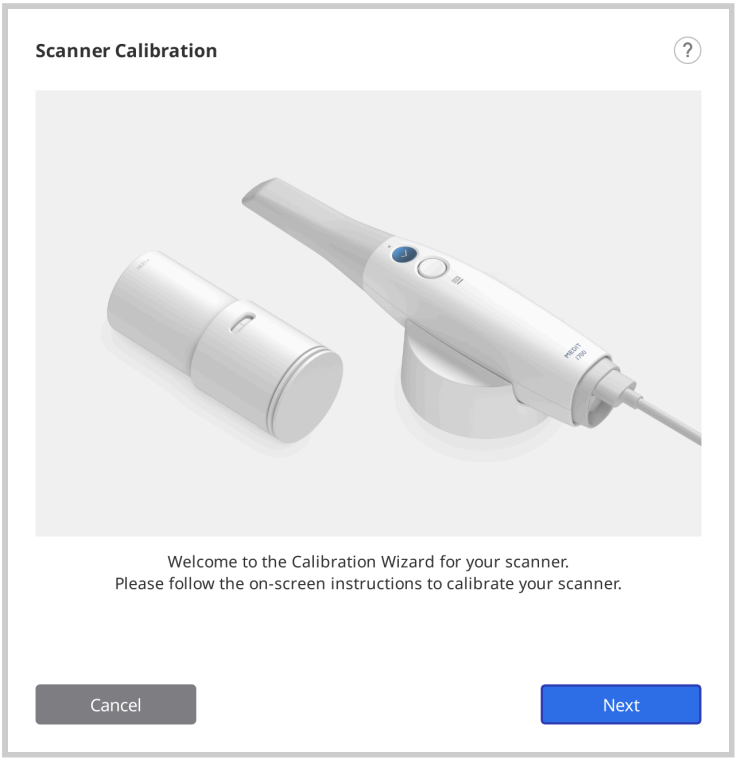
> 🔎**Note**
>
> The user can select "Next" or "Complete" by pressing the Scan button on the scanner.

1. Turn on the scanner and connect the scanner to the software.
2. Click the "Calibrate" icon at the bottom left corner of the program.

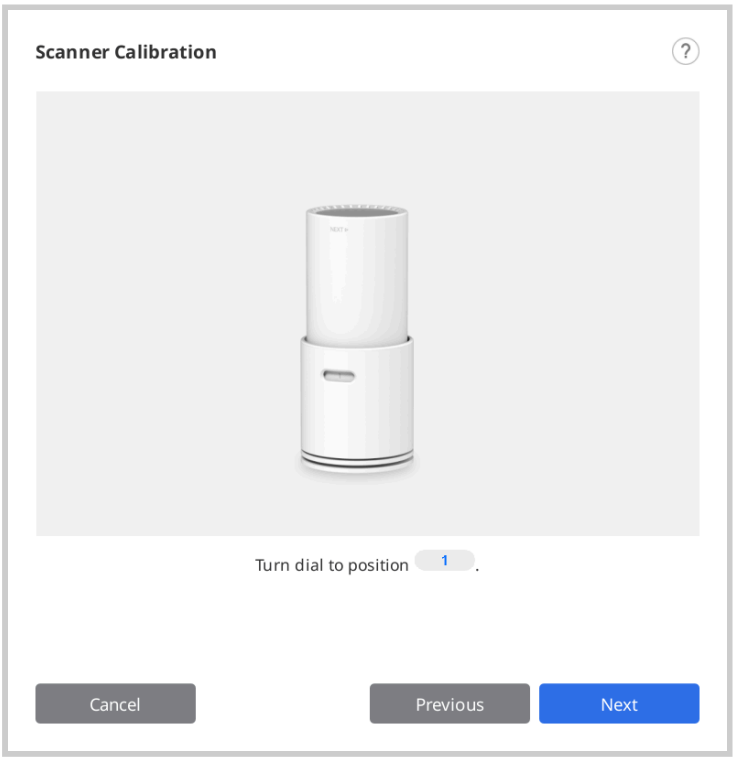
> You can just insert the scanner into the calibration tool to start calibration. (unavailable with i500)



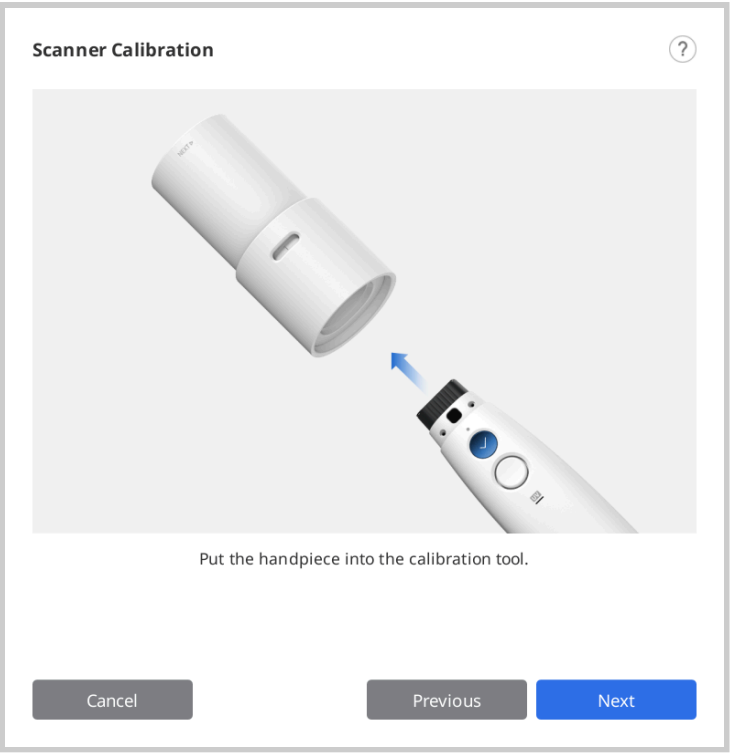
3. Prepare the calibration tool and click "Next" to start the calibration process.



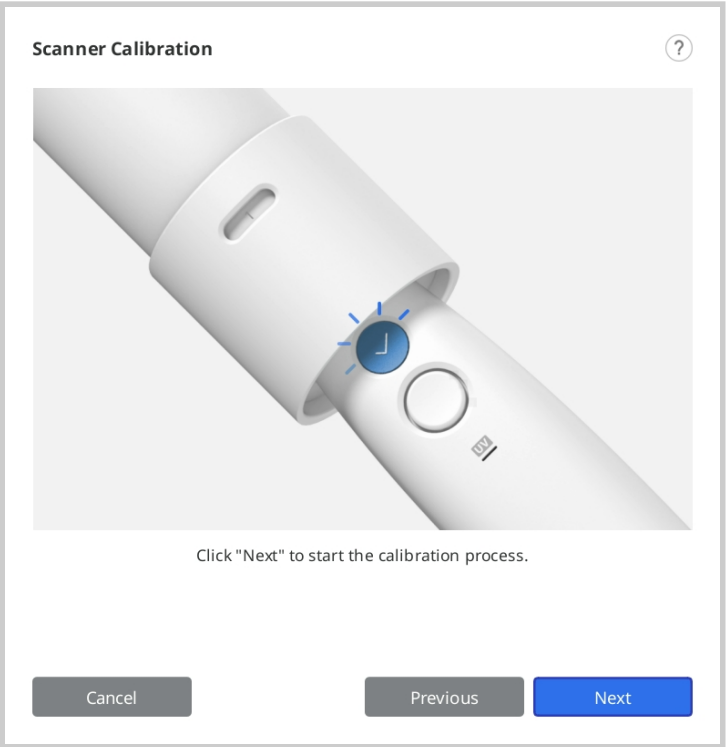

4. Set the dial of the calibration tool to position 1.



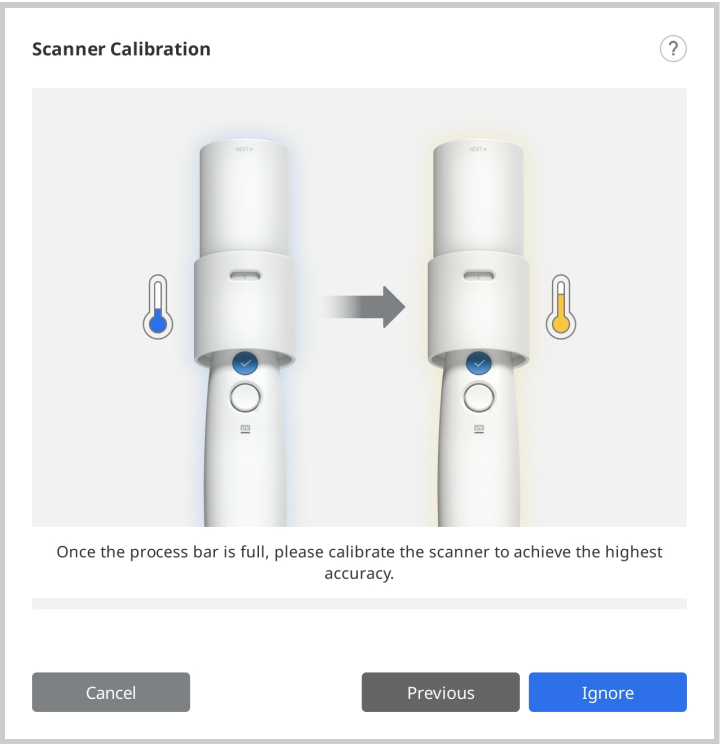

5. Insert the handpiece into the calibration tool.



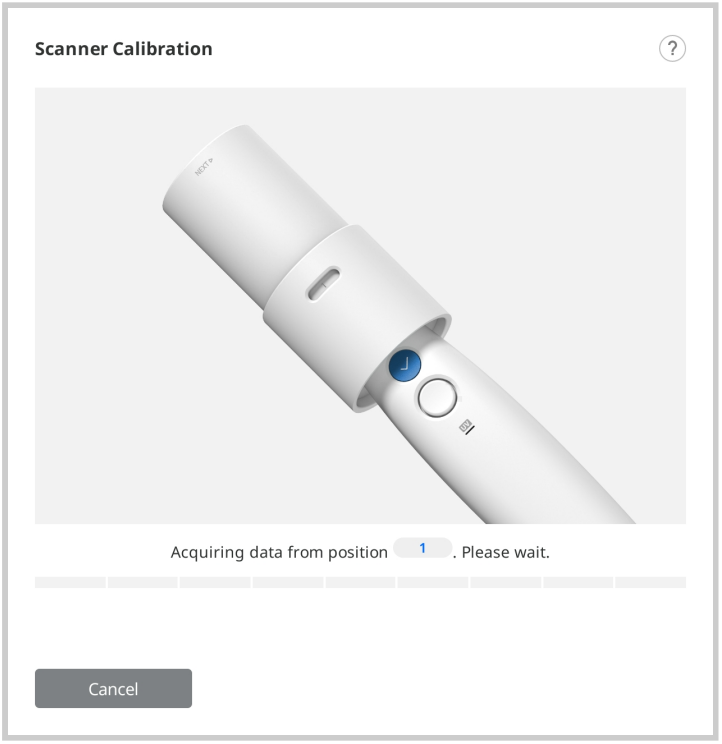

6. Click "Next" to start the calibration.



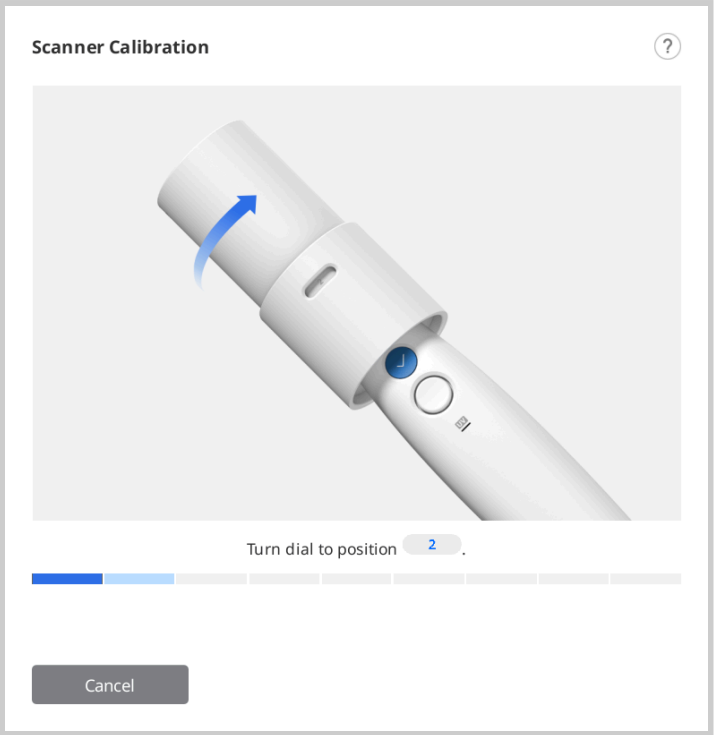

7. If the scanner's temperature is too low, pre-heating will be required to provide the best performance.



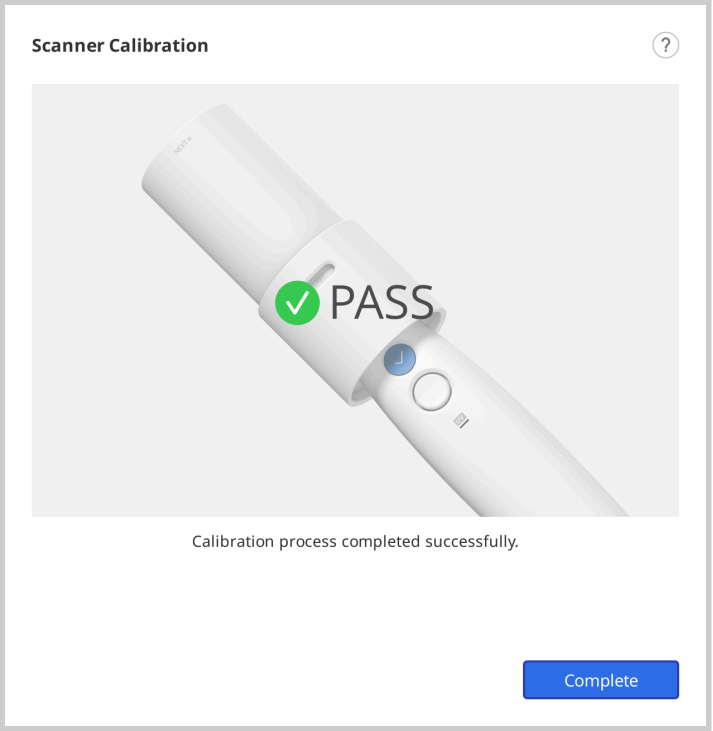

8. If the handpiece is mounted correctly, the system will automatically acquire the data at position 1.




9. After completing data acquisition at position 1, turn the dial to the next position according to on-screen instructions.




10. Repeat the above process for positions 2 to 8 and the LAST.
11. After data acquisition at the LAST position is completed, the calibration result will be displayed.




# How to Calibrate (i900, i900 classic, i900 Mobility, iE)

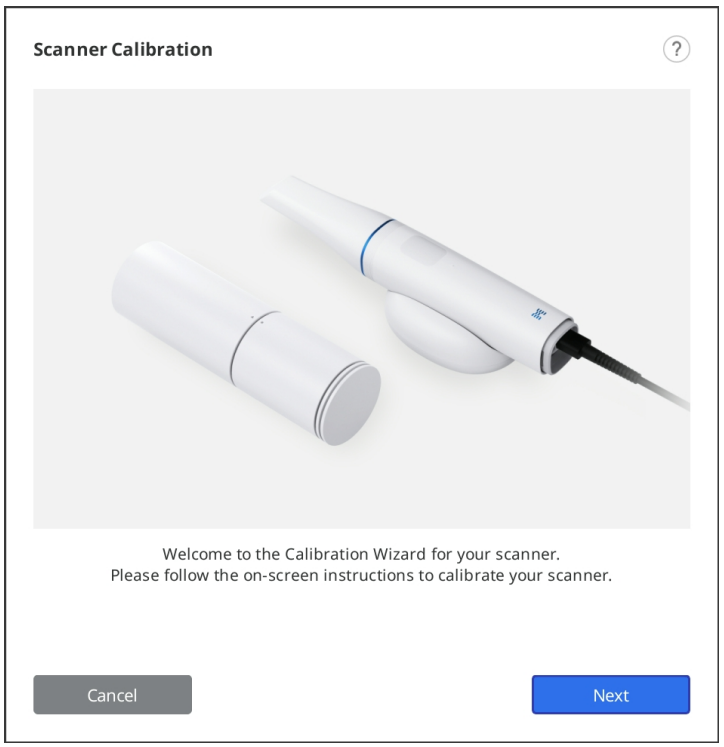
The following describes how to calibrate based on the i900. Please refer to How to Calibrate (i500, i600, i700, i700 wireless) for other scanner models.

1. Turn on the scanner and connect the scanner to the software.
2. Click the "Calibrate" icon at the bottom left corner of the program to run the Calibration Wizard.

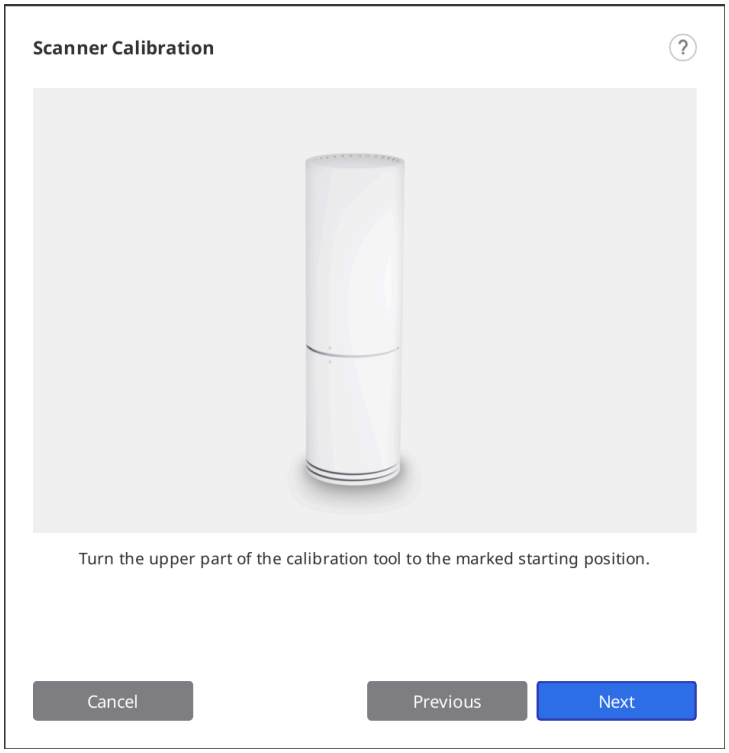
You can just insert the scanner into the calibration tool to start calibration.



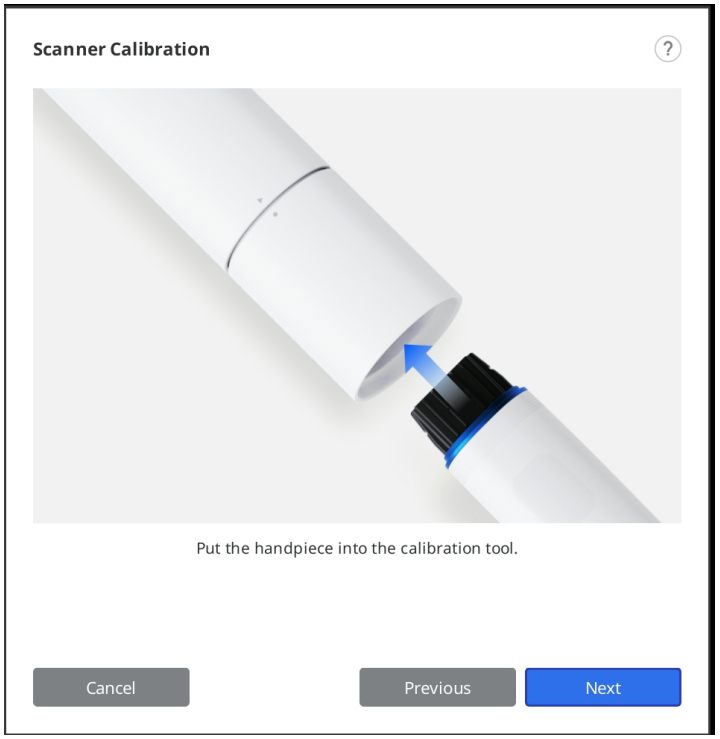
3. Prepare the calibration tool and click "Next" to start the calibration process.



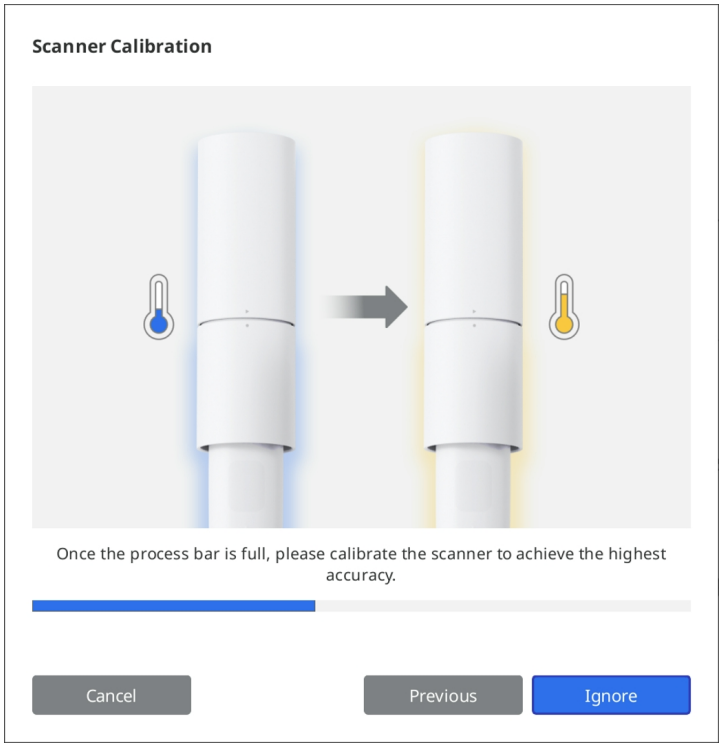

4. Set the dial of the calibration tool to the starting position.



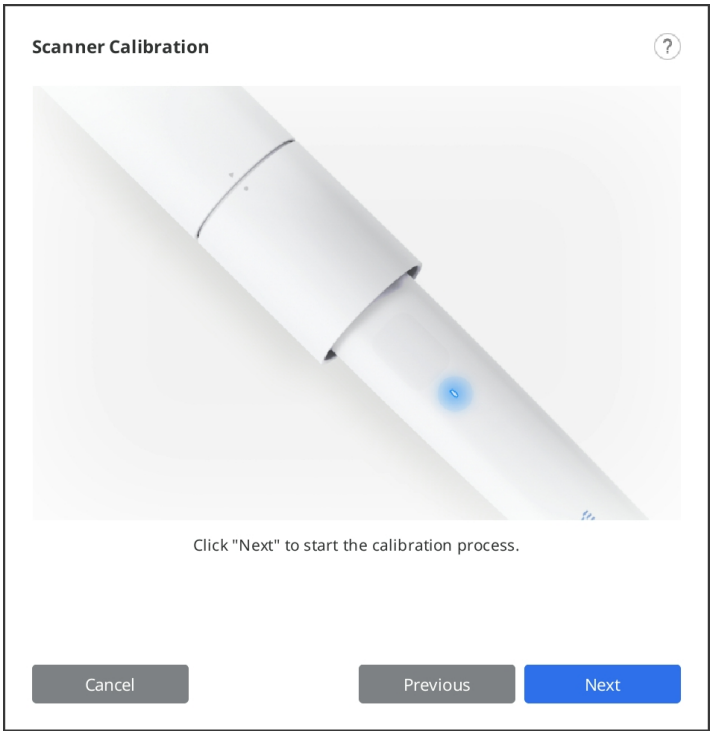

5. Insert the handpiece into the calibration tool.



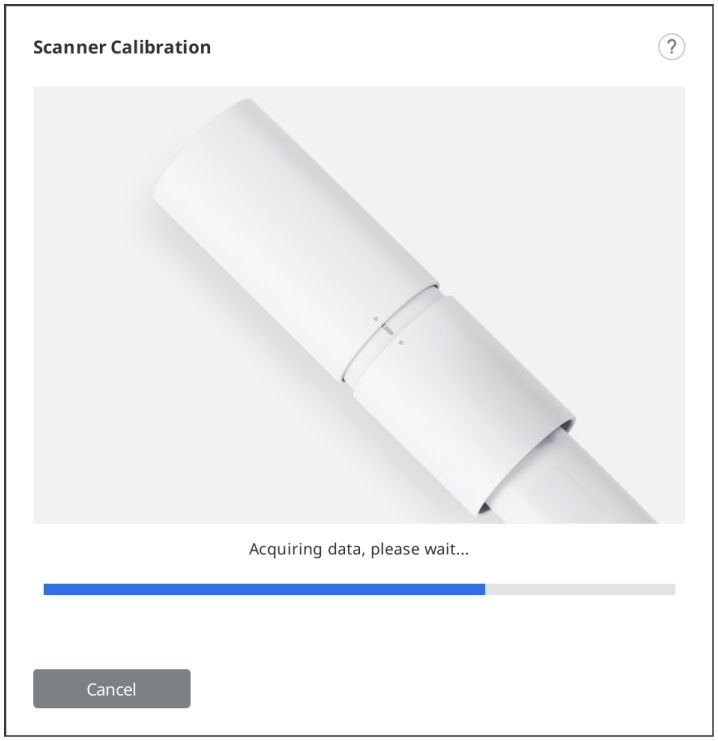

6. Click "Next" to start the calibration.
7. If the scanner's temperature is too low, pre-heating will be required to provide the best performance.



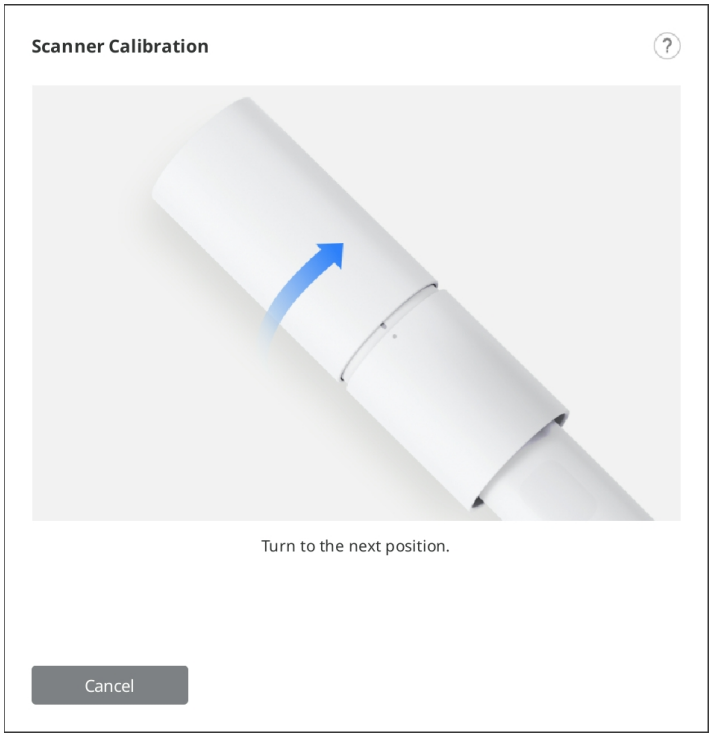

8. Click "Next" to start the calibration process.



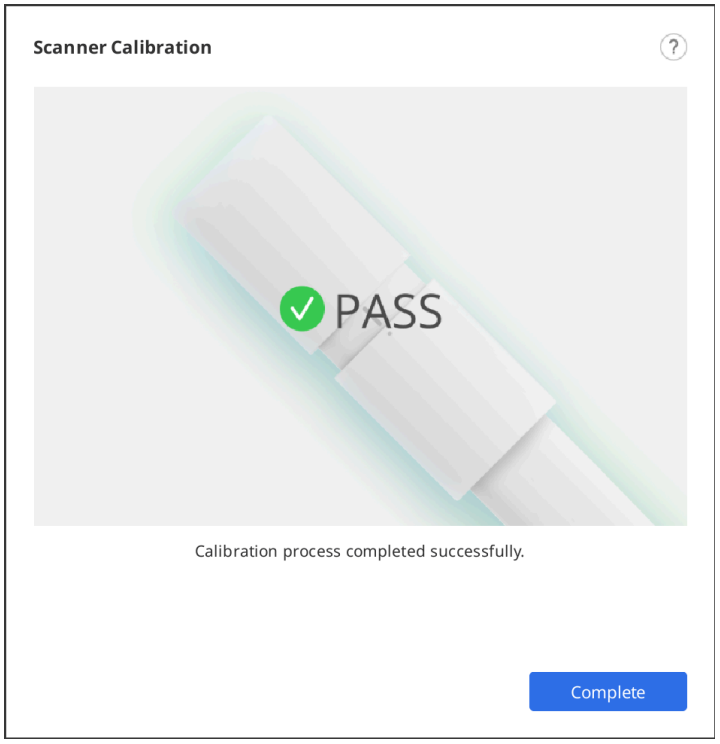

9. If the handpiece is mounted correctly, the system will automatically acquire the data.




10. After completing data acquisition at the starting position, turn the calibration tool to the next position according to on-screen instructions.

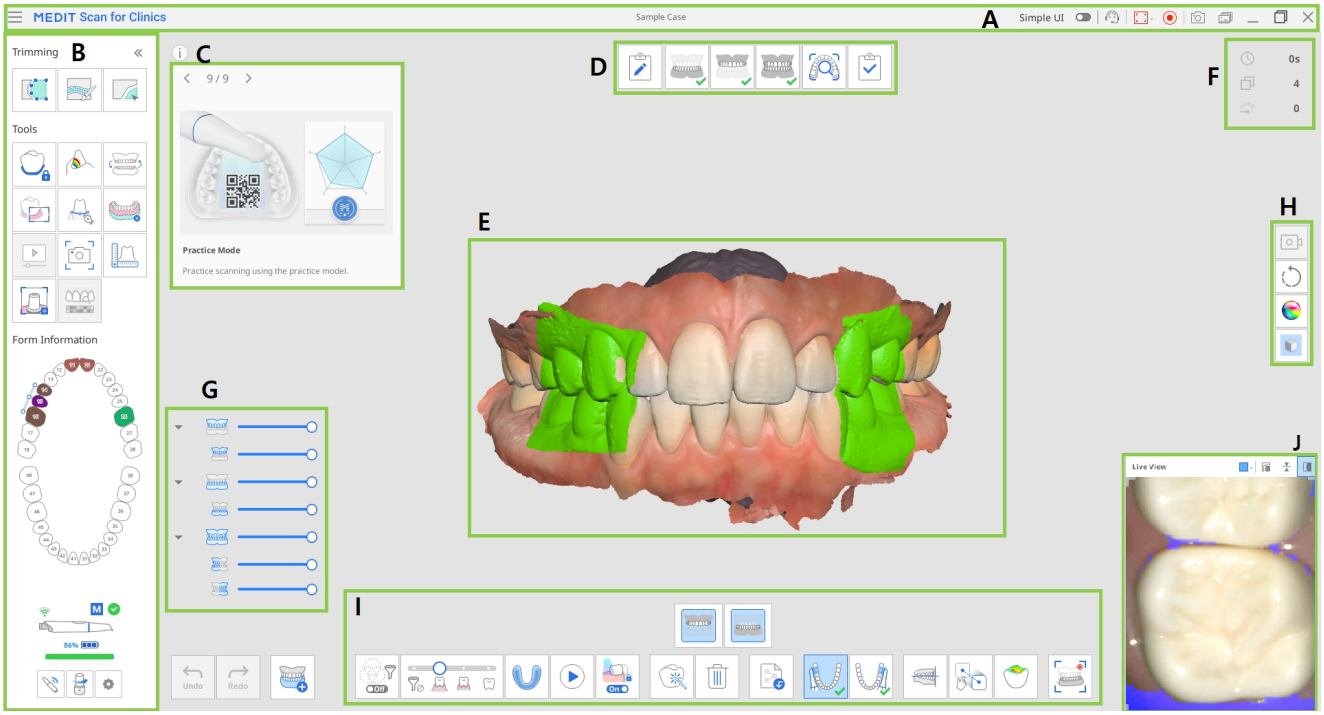



11. Repeat the above process to the last position.
12. After data acquisition at the last position is completed, the calibration result will be displayed.



# User Interface

## Overview

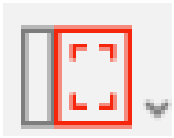



| | |
|---|---|
| A | Title Bar |
| B | Main Toolbar |
| C | Information Box |
| D | Stages (Workflow) |
| E | Model View |
| F | Scan Information |
| G | Data Tree |
| H | Side Toolbar |
| I | Scan Stage Toolbar |
| J | Live View |

> 🔎**Note**
>
> The title bar may look different on macOS, and the image can appear in different sizes according to the screen resolution.

# Title Bar

The title bar consists of the following options.

| | | |
|---|---|---|
|  | Menu | Provide basic program functions such as Save, Settings, User Guide, and About. |
|   | Simple UI | A toggle button to switch to the simple user interface. |
|  | Submit Support Request | Land on a Medit Help Center page to submit a support request. |
|  | Select Video Record Area | Select which area of the screen to record the video.<br>The user can record the entire window of the program or only the area where 3D data is displayed. |
|  | Start/Stop Video Recording | Start or stop video capturing.<br>The captured video file can assist in communication between the patient, clinic, and laboratory. |
|  | Screenshot | Capture the entire screen or only the 3D data display area of the scanning software.<br>The captured image file can assist in communication between the patient, clinic, and laboratory. |
|  | Screen Capture Image Manager | Manage captured images.<br>Screenshots are automatically saved to Medit Link.<br>The user can delete or save them to the local PC in JPG, JEP, PNG, and BMP format. |

Clicking the "Menu" icon will show the following options:

| | | |
|---|---|---|
|  | Save | Save all changes in the current case. |
|  | Settings | See options for environment settings, such as scan options. |
|  | User Guide | Open the user guide. |
|  | About | Provide detailed information about the software program, scanner, and company. |

# Main Toolbar

Please refer to Main Toolbar Tools for information on how to use the tools in the Main Toolbar.

# Form Information

Form Information registered from Medit Link provides an overview of the teeth that need treatment.

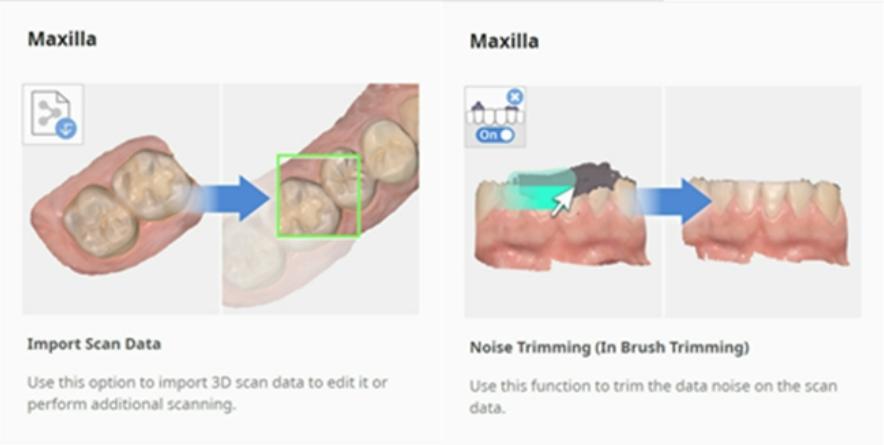



# Info Box

Scanning and editing processes are accompanied by short explanations and visual aids to explain major functions and introduce the tools that can be useful at this stage.

For general scan stages, the information is displayed randomly to expose users to various functions.



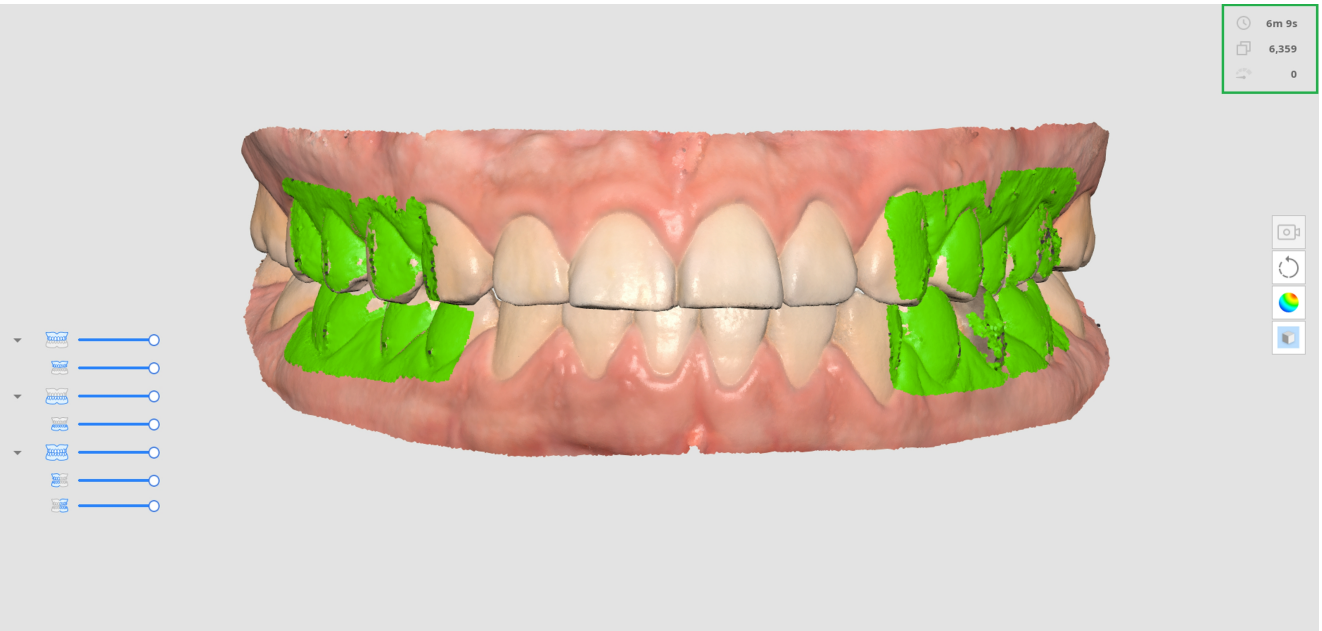

# Scan Stages

Please refer to Stage Management for more information on how to set the scanning workflow.

# Model View

The scan data corresponding to the selected stage in the case is shown in the 3D data display area. You can also view the data acquired in the area in real-time while scanning.

# Scan Information

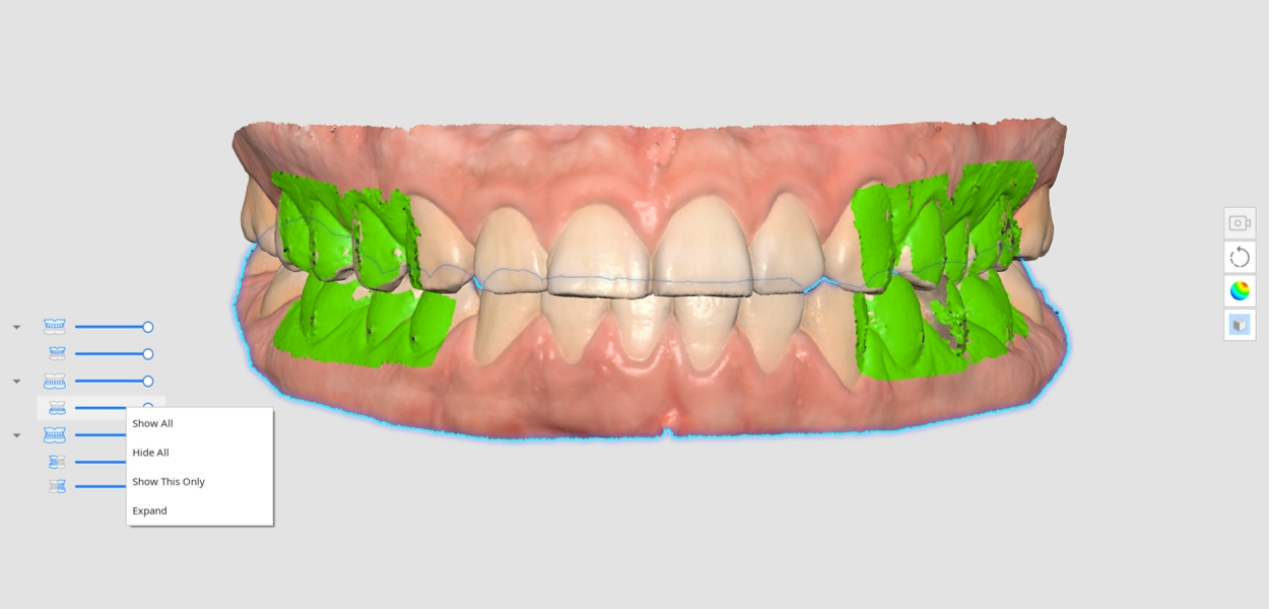



| | | |
|---|---|---|
| | Scan Time | Show the time taken to scan for each scan stage and all scan stages. |
| | Number of Frames | Show the number of images taken during scanning for each scan stage and all scan stages. |
| | Scan Speed | Show the current scan speed. |

# Data Tree

The data tree at the overview stage allows controlling the data display options.

- Right-click on the data tree to show the following options:




- Show All
- Hide All
- Show This Only
- Expand/Collapse

- Use the slider to control the opacity of each data.
- Hovering over the icon of each data will highlight the corresponding area. You can easily differentiate and examine the data you want to inspect.

# Side Toolbar

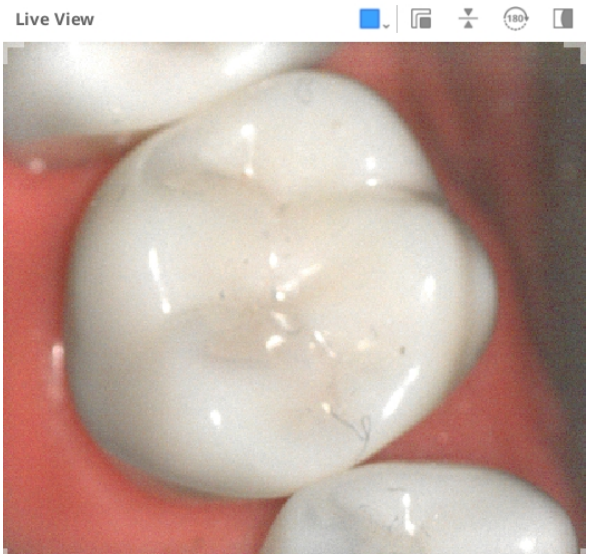
Please refer to Side Toolbar Tools for more information about tools on the Side Toolbar.

# Scan Stage Toolbar

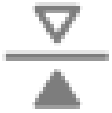
Please refer to Scan Stage Tools for more information about using tools that appear at the bottom of the screen for each stage.

# Live View

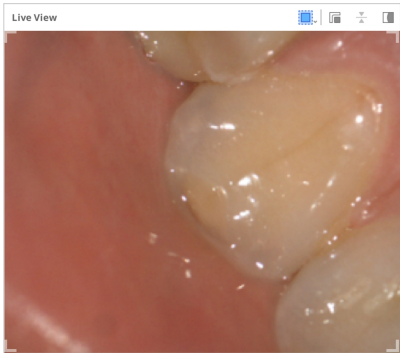
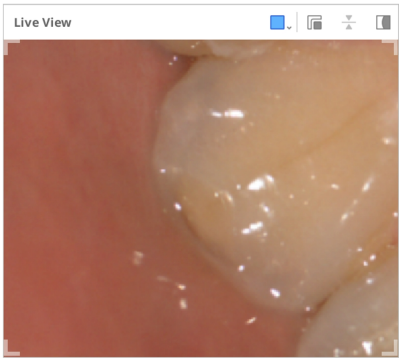
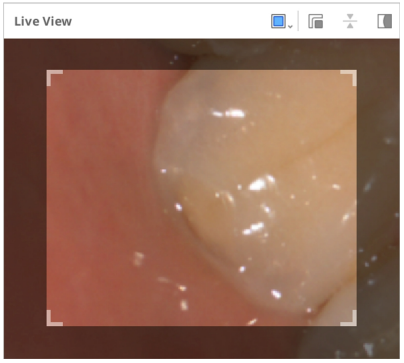
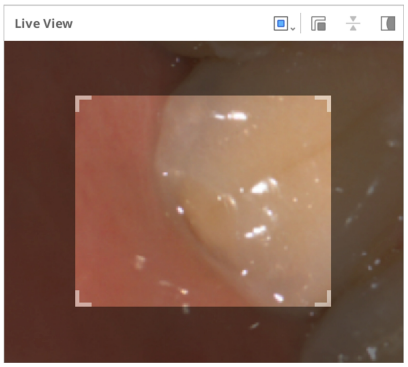
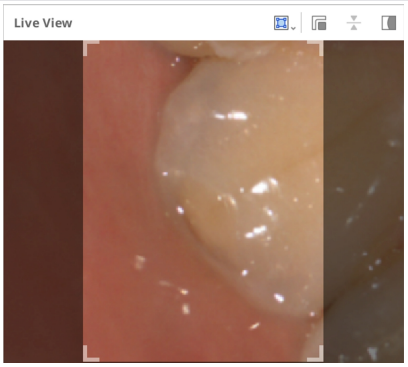
The Live View window displays the 2D image obtained from the scanner and provides useful tools.




The following tools are provided on the title bar of the Live View window:

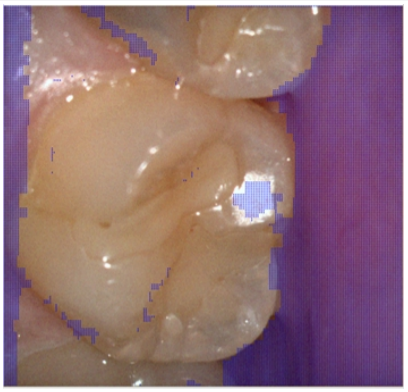
| | | |
|---|---|---|
|  | Custom Scan Area | Adjust the area to acquire scan data.<br>You can choose between the modes we provide or adjust as you want. |
|  | Detach Live View Window | Detach the Live View window from the fixed position.<br>The window size can be changed when the window is detached. |
|  | Reset Live View Window | Bring the Live View window to the default position and size. |
|  | Flip Image | Flip scan data upside down.<br>This is useful when performing intraoral scanning from the top of the patient's head. |
|  | Rotate 180° | Rotate the scan data by 180 degrees to match the direction of the teeth data on the screen to your viewpoint of the patient's teeth. |
|  | Show/Hide Masking | Turn on or off the visibility of the unscannable area.<br>The unscannable area is shown with blue masking. |

Clicking the "Custom Scan Area" icon shows the following options to set the Live View window size:

| Large | Standard |
| --- | --- |
|   |   |
| **Small** | **Extra Small** |
|   |   |
| **Custom** | |
|   | |

> 🔎**Note**
>
> The large size of the Live View window is available only on i900, i900 classic, i900 Mobility, iE models.

Clicking the "Show/Hide Masking" icon will show or hide the unscannable area as follows:

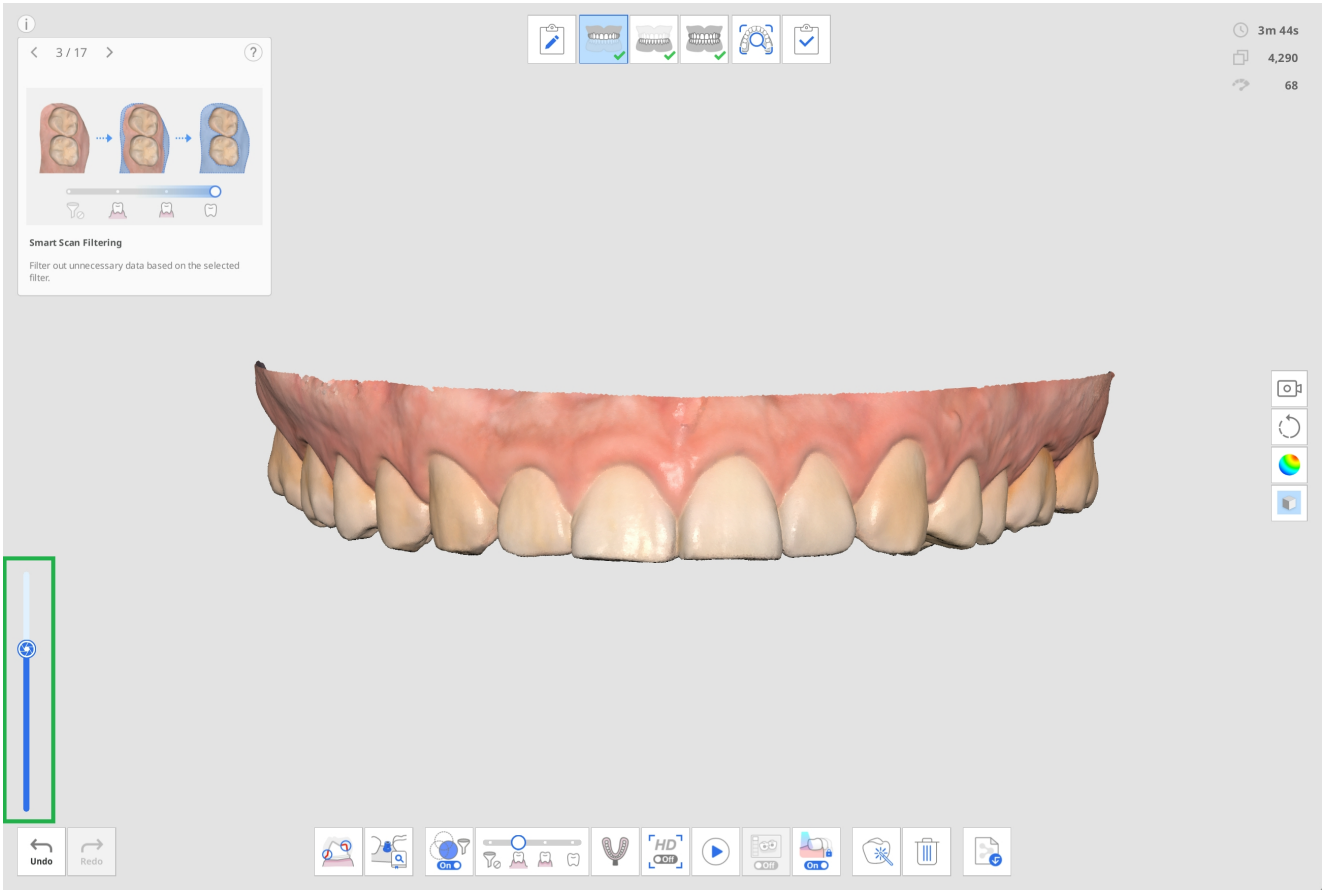
| Show Masking | Hide Masking |
| --- | --- |
|  |  |

# Scan Depth

The scan depth can be adjusted as follows according to the scanner type:

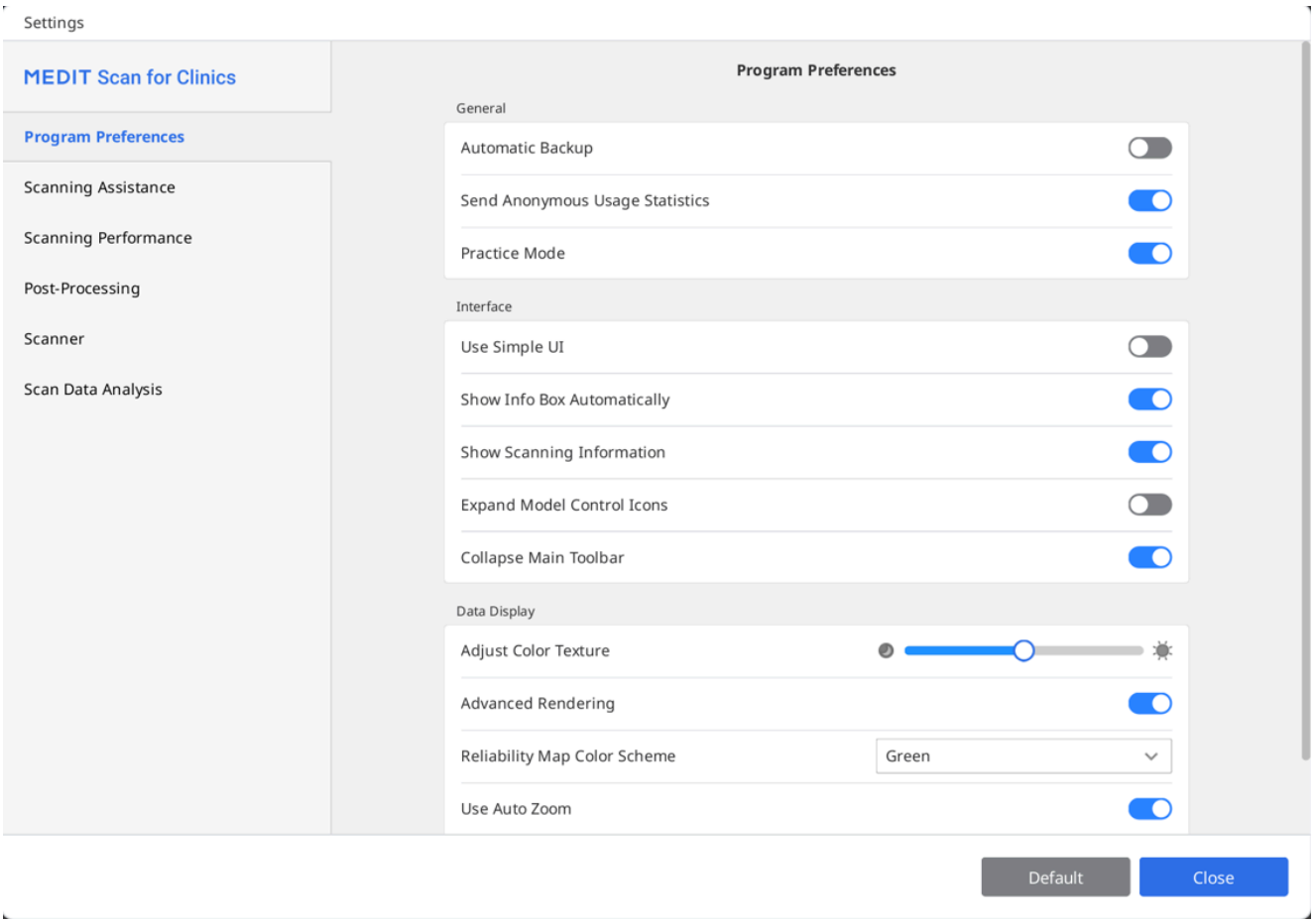
- i500: 12mm - 21mm
- i600, i700, i700 wireless: 12mm - 23mm
- i900, i900 classic, i900 Mobility, iE: 12mm - 30mm

A deeper scan depth can be applied to almost all general scanning works. A shallow scan depth is useful when filtering out noisy data, such as unnecessary soft tissues.



# Settings

Go to Menu > Settings to open the Settings dialog for Medit Scan for Clinics.




> **Note**
>
> When you click the "Default" button, all configured parameters will be reset to their default values.

# Program Preferences

## General

| | |
|---|---|
| Automatic Backup | Save the current work temporarily.<br>Backup data will be used for recovery if the program stops unexpectedly without saving. |
| Send Anonymous Usage Statistics | Set whether to send anonymous usage statistics to Medit. |

| | |
|---|---|
| | **Collecting Anonymous Statistics**<br>Medit is striving to constantly improve the product and user experience by collecting certain information such as:<br>• Hardware and software configurations, such as OS, graphics card, etc.<br>• Patterns and trends in how our software is used, such as frequency and performance.<br>• Diagnostic information.<br>The usage statistics will help the development team better understand user requirements and make improvements in future releases. We will never collect personal information, such as your name, company name, MAC address, or any other information related to personal identification. We cannot and will not reverse-engineer any collected data to find specific details concerning your projects. |
| Practice Mode | Provide scanning training for users using a practice model.<br>When this option is enabled, the "Practice Mode" banner is displayed on the full screen when there is no acquired scan data.<br>* Unavailable with i500 |

## Interface

| | | |
|---|---|---|
| Use Simple UI | When on, the program switches from the default interface to the simple interface.<br>The simple interface provides minimum features to acquire and process scan data. | |
| Show Info Box Automatically | When on, the program automatically shows the information box in the top left corner of the window while working with the program. | |
| Show Scanning Information | Scan Time | Display the scan time for each stage or the total scan time. |
| | Number of Frames | Display the number of images taken by the scanner for each stage or the total number. |
| | Scan Speed | Display the current scan speed. |
| Expand Model Control Icons | When on, the 3D model control icons of panning, rotating, zooming, and zoom fit are added to the side toolbar. | |

| | |
|---|---|
| Collapse Main Toolbar | Collapse the main toolbar on the right by default. |

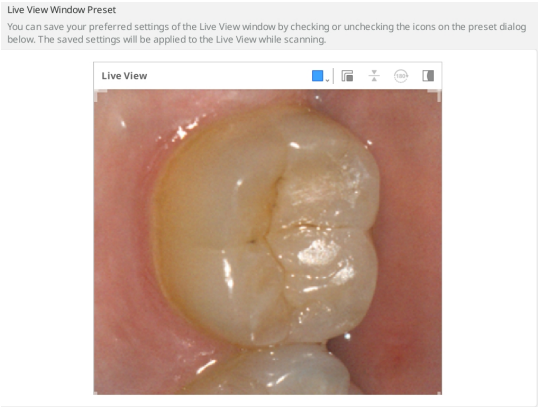
## Data Display

| | |
|---|---|
| Adjust Color Texture | Adjust the brightness of the 3D model.<br>The color of the 3D model will be optimized for the image acquisition software.<br>When viewing data using other software, the resulting colors may be slightly different from the image acquisition software. |
| Advanced Rendering | Display vivid 3D data with advanced technology applied. |
| Visualization Method | Voxel Point: Displays data as voxel points. This view shows the raw, blocky structure of the scan. Useful for checking coverage, density, and areas that may need more scanning. |
| | Mesh: Displays data more as a connected surface mesh. This view gives a smoother, more realistic representation of the object and helps predict final processed model more accurately. |
| Reliability Map Color Scheme | Set the color of reliable data between Green, Blue, and Green/Yellow. |
| Use Auto Zoom | When on, the zoom magnification is automatically set according to the size of the current scan data. |
| Zoom Magnification | Set the zoom magnification manually when the "Use Auto Zoom" is disabled. |

# Scanning Assistance

| | |
|---|---|
| Smart Scan Guide | Identify any unusual actions during the scanning and provide relevant guidance. |
| Smart Arrow | Show blue arrows to demonstrate low-reliability areas based on the gathered scan data. |
| Warning for External Light (Beta) | Display a warning when an external light source affects the scan.<br>* Unavailable with i900, i900 classic, i900 Mobility, iE |

| | |
|---|---|
| Warning for Occlusal Data | When the user clicks "Complete" after scanning the data, the program checks the data and its alignment status acquired during the occlusion scan stage. |
| Enable Audio Feedback | Indicate the status of the scanner through different sounds. |
| Sound Library | Select the audio files used for scanner status notifications(audio feedback). You can use the default sounds or import custom audio files in .wav, .mp3, or .wma format. Separate sounds can be assigned for the following events:<br>• Connected Sound – Played when the scanner is successfully connected.<br>• HD Camera Sound – Played when the HD camera is activated.<br>• Matching Sound – Played during occlusion matching.<br>• Scanning Sound – Played while scanning is in progress.<br>Additional options are available for Scanning Sound:<br>• Shuffle – Randomly plays sounds during scanning.<br>• Volume for Lost Tracking – Adjusts the volume of the warning sound played when tracking is lost. |
| Live View Image Stabilization | When on, automatic image stabilization is applied in the Live View during scanning to provide users with stabilized images with improved clarity and stability.<br>* i900, i900 classic, i900 Mobility, iE |
| Live View Window Preset | Define the default settings for the Live View window options, such as window size, detach/reset window, and show/hide masking.<br>Once you change the settings in the preset window, the changes are applied to the Live View window that appears while you are acquiring the scan data. |

| | |
|---|---|
| |  |

# Scanning Performance

| | |
|---|---|
| Use GPU | Utilize this option to Improve overall computing performance using the GPU (graphics processing unit). |
| Prevent Scan Data Misalignment | Align scan data using additional information when acquiring scan data with the Smart Scan Filtering option on. |
| Extend Dynamic Range | Use peripheral data to assist in scanning difficult-to-scan areas. |
| Smart Stitching Interval | Adjusts the interval to acquire new scan data for Smart Stitching.<br><br>When the Smart Stitching feature is on, you can acquire and save non-continuous areas as separate data, and the continuous areas will later be aligned as you acquire more data in between.<br>A shorter smart stitching interval will start scanning for discontinuous data sooner.<br>At the same time, a longer smart stitching interval will wait a bit longer for the user to acquire contiguous data before accepting discontinuous data. |
| Use Glitch Filtering in Live View (Beta) | Filter glitching image acquired while scanning.<br>The results can be affected by the strength of the scanner connection signal.<br>* i700 wireless only |
| Global Soft Tissue Filtering | Delete soft tissue and noise data.<br>Global soft tissue filtering is conducted during |

| | |
|---|---|
| | scanning, when you move to another scan stage, and when you complete. |
| Auto Smart Scan Filtering | Automatically adjust the filter settings for Smart Scan Filtering during scanning when excessive gingiva data is acquired (Intense Teeth + Gingiva to Teeth + Gingiva). |
| Active Noise Filtering (Beta) | Effectively remove noisy data acquired during scanning. |
| Prevent Occlusion Misalignment (Beta) | Check the direction of occlusion and mandibular data to prevent misalignment while acquiring occlusion data. |
| Metal Scan | Turn this option on to automatically apply scan parameters optimized for metal prostheses when they occupy a significant portion of the scan area. Choose a setting option based on your needs: “Precision” prioritizes acquiring more accurate data, while “Coverage” prioritizes collecting more data of the metal areas. The default setting provides a balance between the two. |
| Scan Assist | Automatically realigns scan data in real time during scanning and continuously maintains alignment after the initial alignment. |

# Post-Processing

| | |
|---|---|
| Set File Size Automatically | Turn this option on to apply optimal file size for the scan data automatically. |
| File Size | Adjust the size of the result file.<br><br>Setting the slider bar to the left makes the calculation faster and produces a smaller output.<br>Users can determine the file size based on the intended use of the result file. Smaller result files are suitable for orthodontic cases. |
| Optimize Occlusion Alignment | When on, the program optimizes the occlusion alignment data.<br> |

| | |
|---|---|
| | Set the slider bar to the left to loosen the bite alignment of the maxilla and mandible, while setting the slider bar to the right tightens the bite alignment of the maxilla and mandible. |
| Use Neighboring Colors for Filled Holes | Turn this option on if you want to fill in the empty spaces in scan data with the color of the adjacent data. |
| Clean Out Data Layering (Beta) | Identify and remove double-layering or multiple-layering areas automatically while optimizing scan data. |
| Use Background Processing | Process data in the background for stages where no data is acquired or manipulated. |
| Optimize After Occlusion Alignment | Automatically optimize the maxillary and mandibular data when occlusion alignment is complete.<br>The optimized occlusal relationships allow you to preview the occlusal state of the final result data. |
| Optimize Scan Data Automatically | Optimize automatically during the process of obtaining scan data. |
| Texture Mapping (Beta) | When enabled, it enhances the texture of scanned data to provide a more realistic representation of teeth and gingiva. |

## High-Resolution Data Processing*

| | | |
|---|---|---|
| Apply to | Entire Scan | Apply high-resolution data processing to the entire scan data. |
| | HD Scan Parts Only | Apply high-resolution data processing to the parts scanned using High Detail Scan (HD Scan). |
| Apply to Prepared Teeth Data (Beta) | Turn this option on to let the program automatically detect the prepared teeth data and apply high-resolution data processing to the prepared teeth data.<br>When this option is on, the tooth area for tooth numbers registered from Medit Link can be selected in the Smart Scan Review feature.<br>Also, if margin lines are specified, the teeth with margins are processed as high-resolution data. | |

*Available on i600 after purchasing the i600 Feature Upgrade

## Processing Data for Medit SmartX Workflow

| | | |
|---|---|---|
| Result Files (Scan Body Stage*) | Arch Data and Library Data | Create separate files: One for the scanned arch, and one for the library. |
| | Combined Arch Data with Library | Create a single file: Combine the scanned arch and library data. |
| | Library Data Only | Create a single file: Include only the library data. |
| Overlapping in Combined Data | Keep Overlap Data | When creating the combined file, keep the overlapping parts of both datasets. |
| | Remove Arch Data | When creating the combined file, remove the overlapping parts of the scanned arch. |
| | Remove Library Data | When creating the combined file, remove the overlapping parts of the library data. |

* Applicable only to the Mandibular/Maxillary Scan Body stages.

* Unavailable with iE scanner.

# Scanner

| | |
|---|---|
| Start Automatic Scan | The program automatically starts scanning when you enter the scan stages without having to perform any actions to start the scan.<br>When this option is off, you can start scanning by pressing the Scan button or, for i900, double-tapping the Touch Band. |
| Calibration Period (Days) | Set the calibration period of the scanner. |
| Initiate Scan with HD Scan | Set to start scanning in HD mode by default. |
| Scan Light | Set whether to use blue light or white light for scan light. |
| Minimum Scanner Temperature Notification | The scanner temperature is checked when the user starts scanning.<br>If the scanner temperature drops below the minimum value, the scanner begins to preheat.<br>* Unavailable with i500 |
| Turn On UV Automatically | Set to turn on the UV light automatically when the scanner is connected or scanning stops. |

| | |
|---|---|
| | The UV light will be turned off automatically after the set time for the "UV Operation Time" option or when scanning starts.<br>* Unavailable with i500, i600 |
| UV Operation Time (Minutes) | Set the time duration for the "Turn On UV Automatically" option.<br>* Unavailable with i500, i600 |
| Turn On Vibration Feedback During Scanning | Notify users by vibrating the scanner in case of misalignment, etc.<br>* Unavailable with i500; available on i600 after purchasing the i600 Feature Upgrade |
| Anti-Fogging Fan Mode | Select a fan mode between "Silent Mode" and "High-Performance Mode" to remove fogging from the mirror when the scanner temperature is low. |
| Scanning Experience | Select whether to display the screen more smoothly or acquire scan data with the best performance.<br>* i700, i700 wireless, i900, i900 classic, i900 Mobility, iE only<br>*Available on i600 after purchasing the i600 Feature Upgrade |
| Mobile Scanner Connection | Enables automatic search for available i900 Mobility handpieces when the program is opened. |
| Auto-Match Wi-Fi for PC and Scanner | Automatically keep your PC and scanner connected to the same Wi-Fi access point. |
| Adaptive FPS Mode | When enabled, it automatically adjusts the scanning frame rate (FPS) based on network stability and other factors to maintain smooth and reliable performance. When turned off, frequent FPS fluctuations may occur. |

## Scan Button Actions

| | |
|---|---|
| Double Click | Define the double-click action of the Scan button on the scanner.<br>* Unavailable with i900 |
| Triple Click | Define the triple-click action of the Scan button on the scanner.<br>* Unavailable with i500, i900 |
| Long Click | Define the long-click action of the Scan button on the scanner.<br>* Unavailable with i900 |

## Touch Gestures (i900 only)

| | |
|---|---|
| Touch Interface Tutorial | Run the Touch Interface Tutorial dialog to practice how to use touch interfaces, including Touch Band, Touch Pad, and Menu button. |
| Touch Band - Double Tap | Define the double-tap action of the Touch Band on the scanner. |
| Touch Band - Swipe Left | Define the swipe left action of the Touch Band on the scanner. |
| Touch Band - Swipe Right | Define the swipe right action of the Touch Band on the scanner. |
| Touch Pad - Double Tap | Define the double tap action of the Touch Pad on the scanner. |
| Menu Button - Long Tap | Define the long tap action of the Menu Button on the scanner. |

## Cursor Control Settings (Air Mouse) (i900, i900 classic only)*

| | |
|---|---|
| Cursor Size | Adjust the size of the cursor shown on the screen. |
| Cursor Responsiveness | Adjust responsiveness of the handpiece to movement. |

*Available on i600 after purchasing the i600 Feature Upgrade

## Power

| | |
|---|---|
| Sleep Mode | Set the idle time before the scanner enters sleep mode. |
| Auto Power Off (from Entering Sleep Mode) | Set how long the scanner stays in sleep mode before powering off. |

## On Battery Power (i700 wireless, i900 Mobility only)

| | |
|---|---|
| Change to Sleep Mode After | The scanner enters sleep mode when not used for the entered number of minutes. |
| Turn off Scanner After | The scanner is turned off when not used for the entered number of minutes after entering sleep |

| | |
|---|---|
| | mode. |

## When Plugged In

| | |
|---|---|
| Change to Sleep Mode After | The scanner enters sleep mode when not used for the entered number of minutes.<br>* i900, i900 classic, i900 Mobility, iE only |
| Turn off Scanner After | The scanner is turned off when not used for the entered number of minutes when plugged in.<br>* Unavailable with i500 |

# Scan Data Analysis

## Realtime Intelligence

| | |
|---|---|
| Enable Realtime Intelligence | Automatically identifies prepared teeth and evaluates scan data in real time to verify crown preparation requirements and provide immediate feedback for adjustments.<br>* Available on the iE scanner with subscription |

## Smart Scan Review

| | |
|---|---|
| Enable Smart Scan Review Stage | Turn this option on to show the Smart Scan Review stage in the workflow. |
| Align with Occlusal Plane When Entering Smart Scan Review Stage | Turn this option on to align the data to the occlusal plane when entering the Smart Scan Review stage before starting the data review. |
| Show Tooth Reduction Depth for Preparation Review | Turn this option on to check tooth reduction depth when using the Preparation Review feature in the Smart Scan Review stage. |
| Show Distance to Antagonist for Preparation Review | Turn this option on to check the distance to the antagonist when using the Preparation Review feature in the Smart Scan Review stage. |
| Show Distance to Adjacent for Preparation Review | Turn this option on to check the distance to the adjacent when using the Preparation Review feature |

| | |
|---|---|
| | in the Smart Scan Review stage. |

# Preparation Review

## Distances

Set the values below as a criterion to determine if the tooth reduction was done properly. The set values are also used as a reference for Smart Scan Review.

| | |
|---|---|
| Minimum Distance to Antagonist (mm) | Set the minimum value for distance to the antagonist. |
| Minimum Distance to Adjacent (mm) | Set the minimum value for distance to the adjacent. |

## Tooth Reduction Depth

Set the values below as a criterion to determine if the tooth reduction was done properly. The set values are also used as a reference for Smart Scan Review.

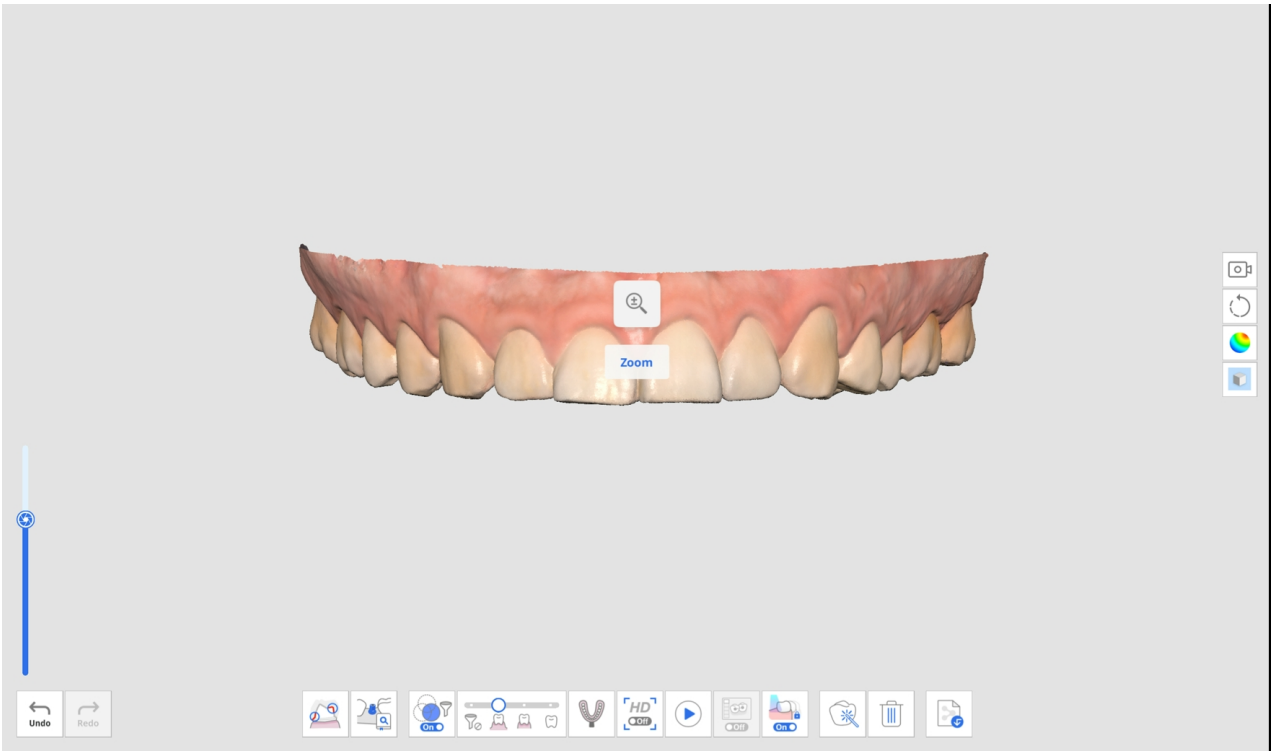
| | |
|---|---|
| Apply Uniform Tooth Reduction | Enable this to apply uniform tooth reduction depth as a reference for all directions.<br>• When on, the "Minimum Reduction Depth (mm)" will be applied to all directions.<br>• When off, the "Labial/Buccal (mm)," "Palatal/Lingual (mm)," "Interproximal (mm)," and "Occlusal (mm)" will be applied to each direction. |
| Minimum Reduction Depth (mm) | Set the minimum value for tooth reduction depth for all directions. |
| Labial/Buccal (mm) | Set the minimum value for the labial/buccal reduction depth. |
| Palatal/Lingual (mm) | Set the minimum value for the palatal/lingual reduction depth. |
| Interproximal (mm) | Set the minimum value for the interproximal reduction depth. |
| Occlusal (mm) | Set the minimum value for the occlusal reduction depth. |

# Basic Operations

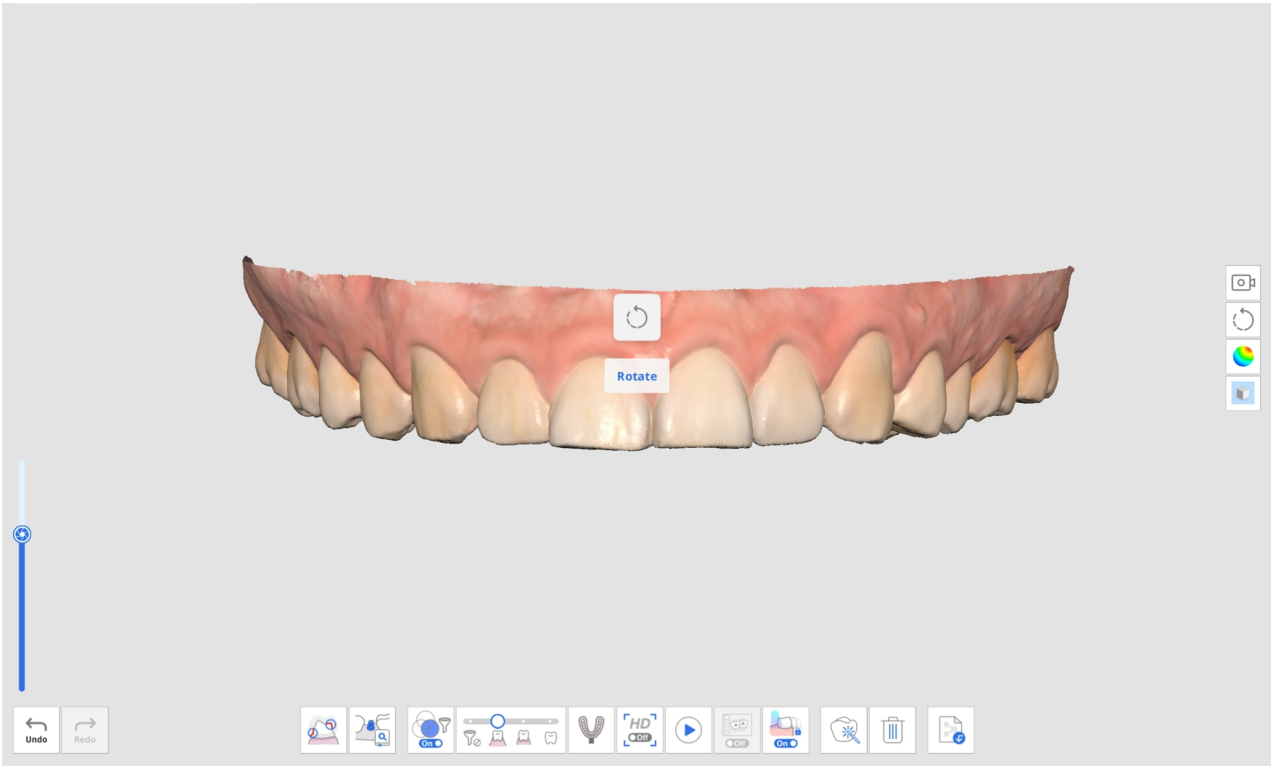
## 3D Data Control

Medit Scan for Clinics supports three data control modes: Rotate, Pan, and Zoom.

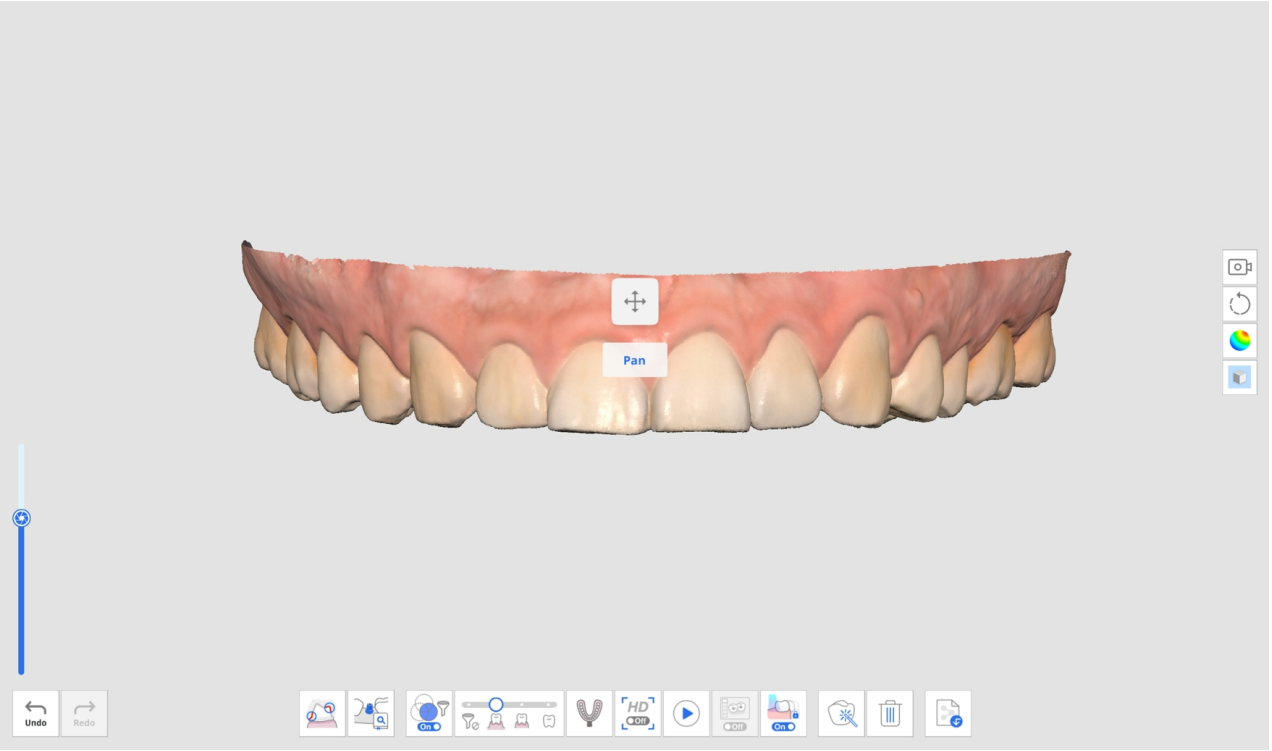
- Zoom



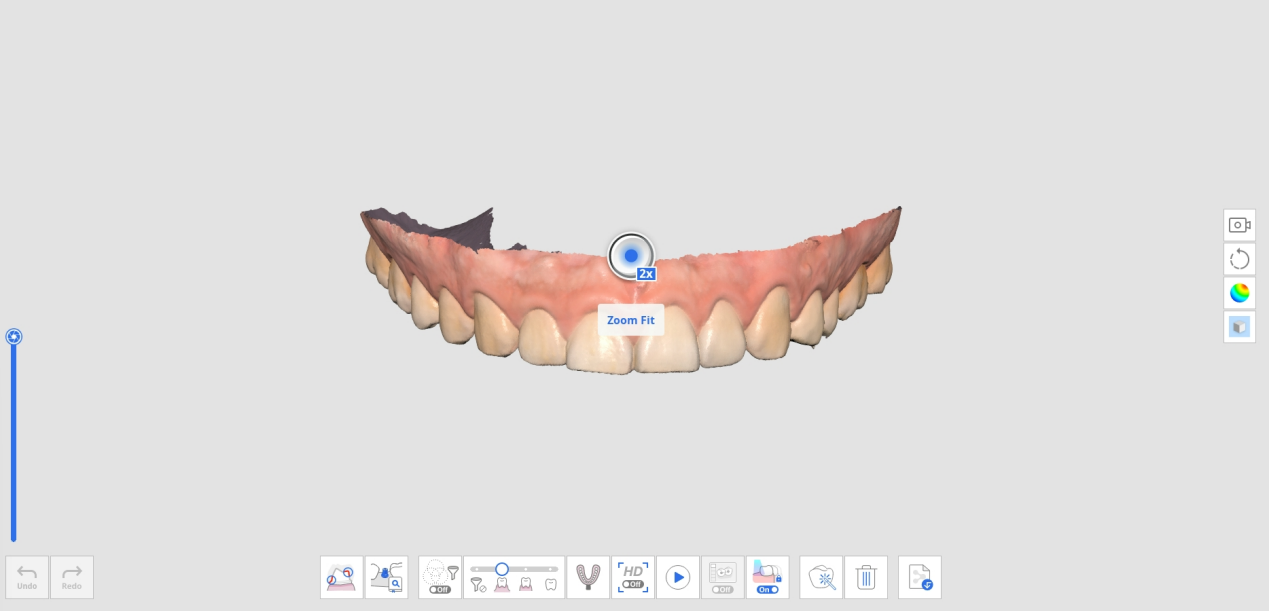

- Rotate



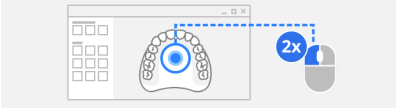
- Pan

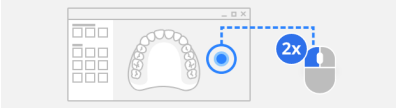



- Zoom Fit: Double-click the Control button to align the data at the center of the screen.




# 3D Data Control Using a Mouse

| | Image | Description |
|---|---|---|
| Zoom |  | Scroll the mouse wheel. |
| Zoom Focus |  | Double-click on the data. |

| | Image | Description |
|---|---|---|
| Zoom Fit |  | Double-click on the background. |
| Rotate |  | Drag the right button. |
| Pan |  | Drag the mouse wheel. |

## 3D Data Control Using Mouse and Keyboard

| | Windows | | macOS | |
|---|---|---|---|---|
| Zoom |  |  |  |  |
| Rotate |  |  |  |  |
| Pan |  |  |  |  |

## 3D Data Control Using Scanner Buttons (i700/i700 wireless/i900 Mobility)

| | Image | Description |
|---|---|---|
| Switch Data Control Mode |  | Single-click on the Control button. |
| Zoom Fit | | Double-click on the Control button. |
| Zoom |  | Press up/down on the Control button. |
| Rotate | | Press up/down/left/right on the Control button. |
| Pan | | Press up/down/left/right on the Control button. |

# 3D Data Control Using Touch Interfaces (i900)

| | Image | Description |
|---|---|---|
| Switch Data Control Mode |  | Short-tap on the Menu Button. |
| Zoom Fit | | Double-tap on the Menu Button. |
| Zoom |  | Tap and drag up/down on the Touch Band. |
| Rotate | | Tap and drag up/down/left/right on the Touch Band. |
| Pan | | Tap and drag up/down/left/right on the Touch Band. |

# 3D Mouse Support

Medit Scan for Clinics supports using a 3Dconnexion 3D mouse.

3D input device development tools and related technology are provided under license from 3Dconnexion. © 3Dconnexion 1992 - 2013. All rights reserved.

# Scanning Operation

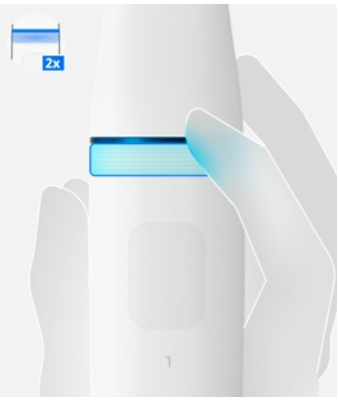
## Start/Stop with Scan Button (unavailable with i900)

You can start or stop the scan by pressing the Scan button on the scanner.



### Start/Stop with Touch Band (i900 only)

You can start or stop the scan by double-tapping the touch band on the scanner.




### Start/Stop by Lifting/Putting Scanner (i900 only)

You can get ready to scan by just lifting your scanner or stop scanning by putting it on the cradle.

> 🔎**Note**
>
> This feature is only available when the “Start Automatic Scan” option is enabled on Settings > Scanner.

## Scanner as a Cursor (Air Mouse)

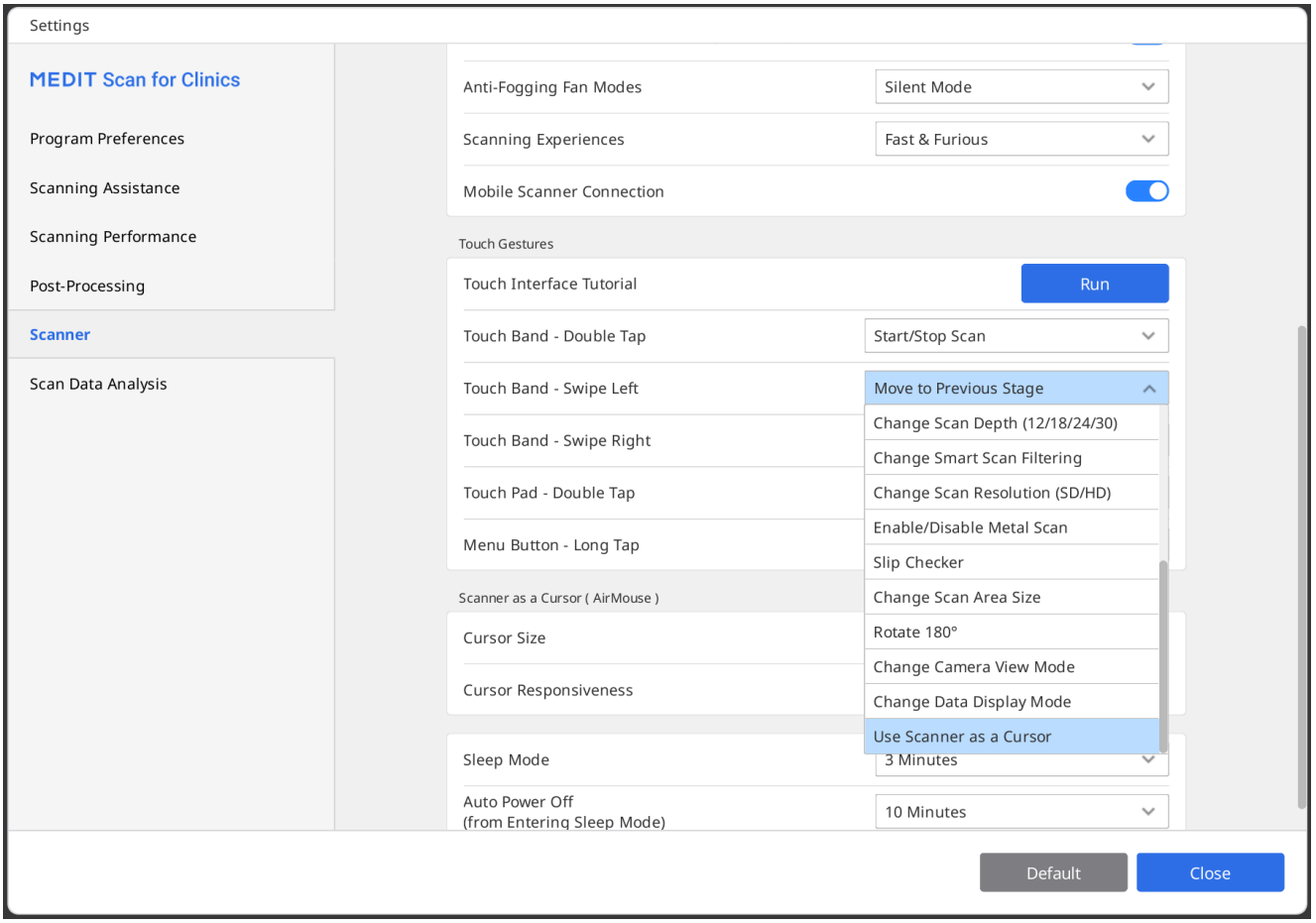
This feature allows the handpiece to function as a mouse, enabling users to control the on-screen cursor and perform basic mouse actions such as clicking. By using the scanner as an Air Mouse, users can avoid using physical mouse or touchpad and reduce the risk of cross-contamination. This functionality is supported on the following scanner models:

- i900
- i900 classic
- i600 *(available only after purchasing the i600 Feature Upgrade)*

To use this feature, go to Settings > Scanner and select “Use Scanner as a Cursor“ in the appropriate section for your scanner model (see details below). Once enabled, you can use the handpiece as a mouse to control the cursor and perform clicking using the selected action. You can also adjust the cursor size and responsiveness.

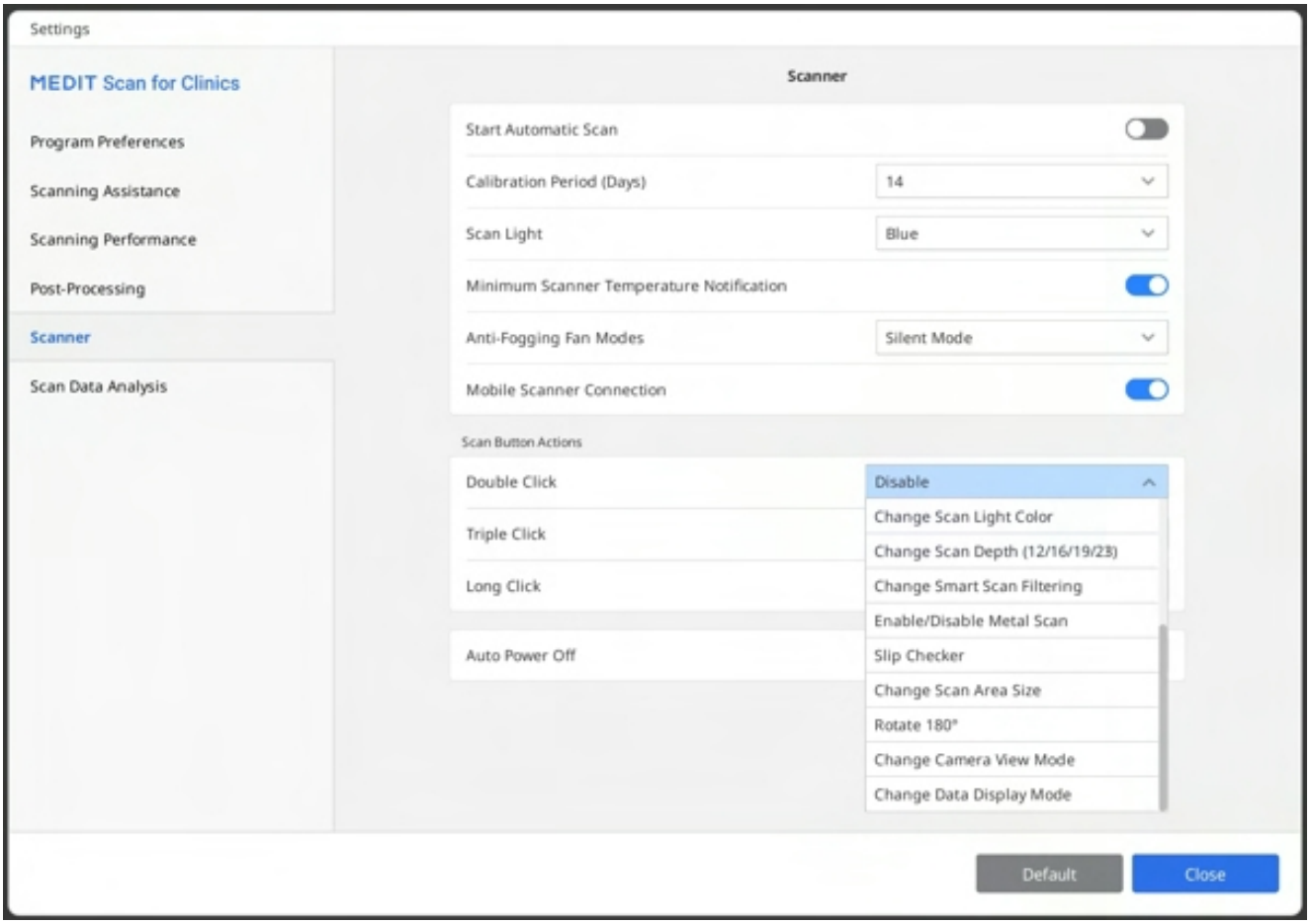
**i900/i900 classic**

In the Touch Gestures section, open the action drop-down menu for the desired gesture and select “Use Scanner as a Cursor.”




**i600 (only with i600 Feature Upgrade)**

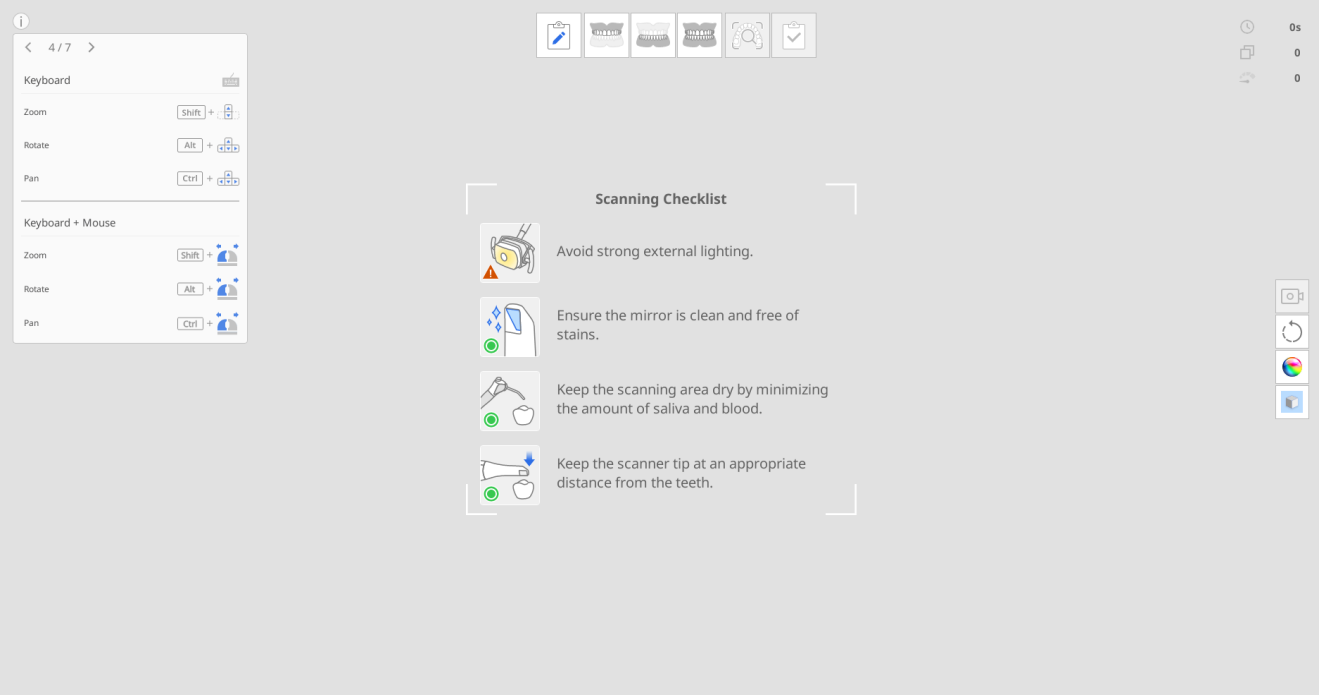
In the Scan Button Actions section, open the action drop-down menu and select “Use Scanner as a Cursor” for the desired button action.


Settings
MEDIT Scan for Clinics
Program Preferences
Scanning Assistance
Scanning Performance
Post-Processing
Scanner
Scan Data Analysis
Scanner
Start Automatic Scan
Calibration Period (Days)
14
Scan Light
Blue
Minimum Scanner Temperature Notification
Anti-Fogging Fan Modes
Silent Mode
Mobile Scanner Connection
Scan Button Actions
Double Click
Disable
Triple Click
Long Click
Auto Power Off
Change Scan Light Color
Change Scan Depth (12/16/19/23)
Change Smart Scan Filtering
Enable/Disable Metal Scan
Slip Checker
Change Scan Area Size
Rotate 180°
Change Camera View Mode
Change Data Display Mode
Default
Close

# Scanning Basics

## Scanning Checklist

If no scan data has been acquired yet, the main screen displays the scanning checklist.




Before initiating the scan, carefully review the following precautions:

- Avoid strong external light sources.
- Ensure the mirror is clean and free of stains (minor water spots is considered normal).
- Keep the scan area as dry as possible and minimize the presence of saliva and blood.
- Maintain an appropriate distance between the scanner tip and the teeth at all times.

# Practice Mode

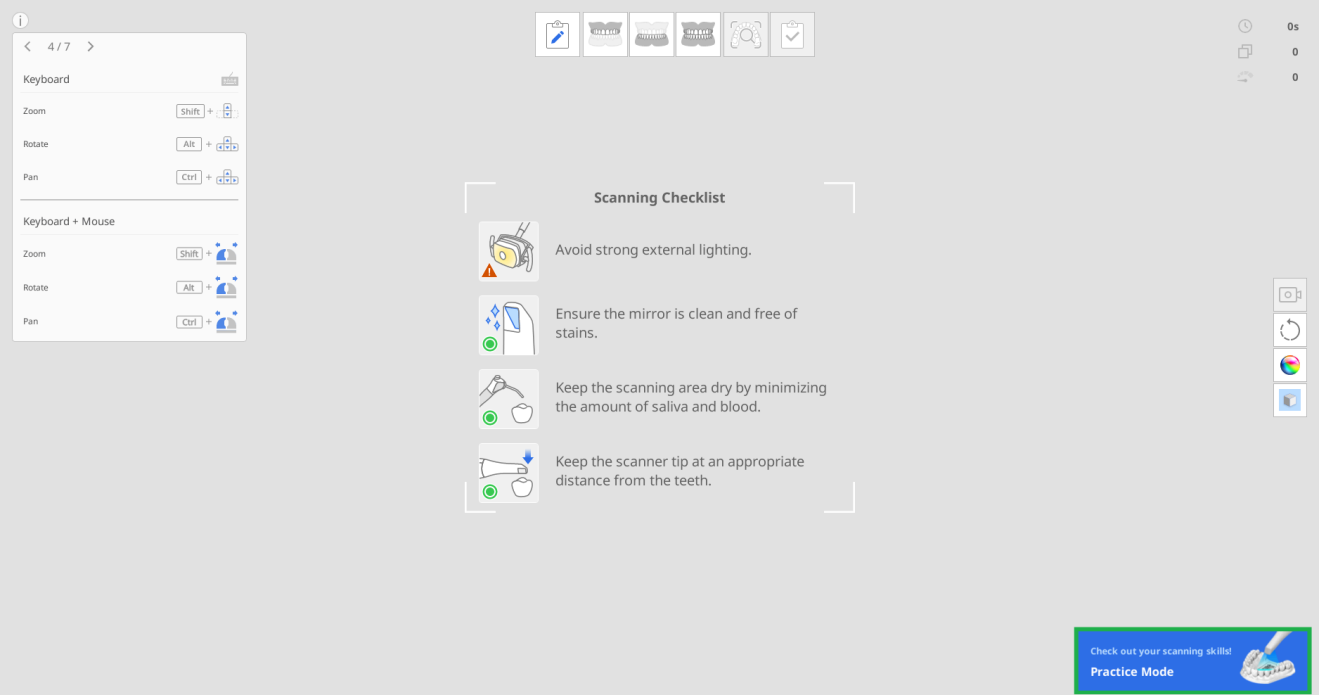
Practice mode is intended to help users to learn how to perform correct scans using a practice model.

You can scan the QR code attached to the practice model to download sample data, or if you've already downloaded it, you can retrieve and use the saved sample data.

Data acquired in practice mode is not saved when you exit the mode.

> 🔎**Note**

- Go to Settings > Program Preferences > General and enable the "Practice Mode" option to display the practice mode banner.
- The Practice Mode banner only appears on full screen when there is no scan data acquired.
- The Practice Mode is not available with the i500.



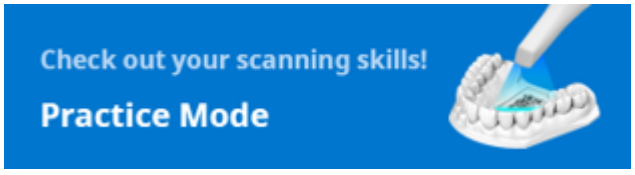

The Practice Mode provides three training levels, each with different score criteria.

- Beginner: A level for novice users of an intraoral scanner
- Intermediate: A level for intermediate users who are familiar with using an intraoral scanner
- Advanced: A level for experienced users who want to reach the highest level beyond the intermediate level.

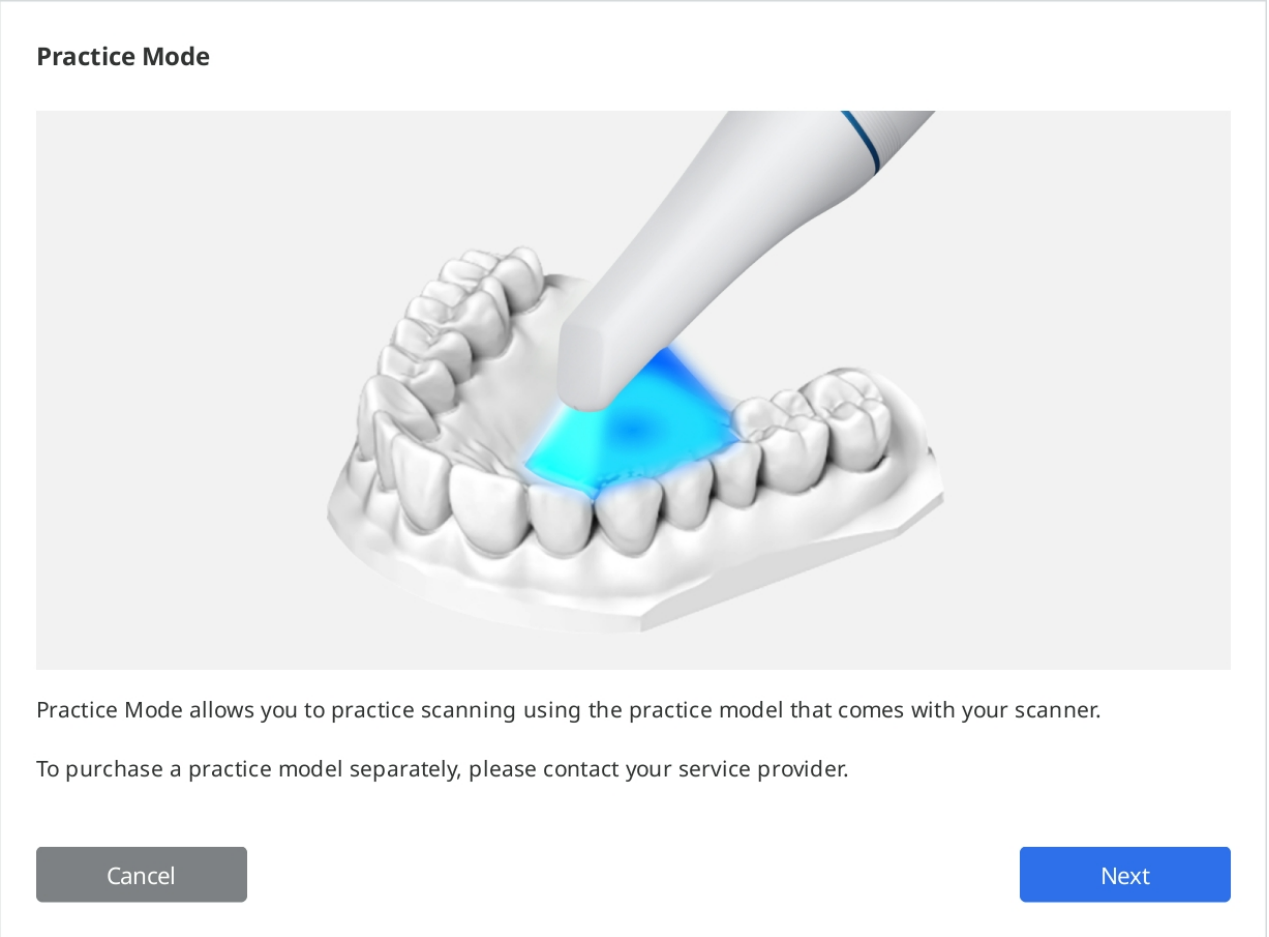
The acquired scan data will be deleted if the difficulty level is changed during scanning.

# Entering Practice Mode

1. Prepare the practice model that is included in the scanner package. Please contact your local service provider for additional purchases.
2. Run Scan for Clinics and click the "Practice Mode" banner on the bottom right side of the screen.

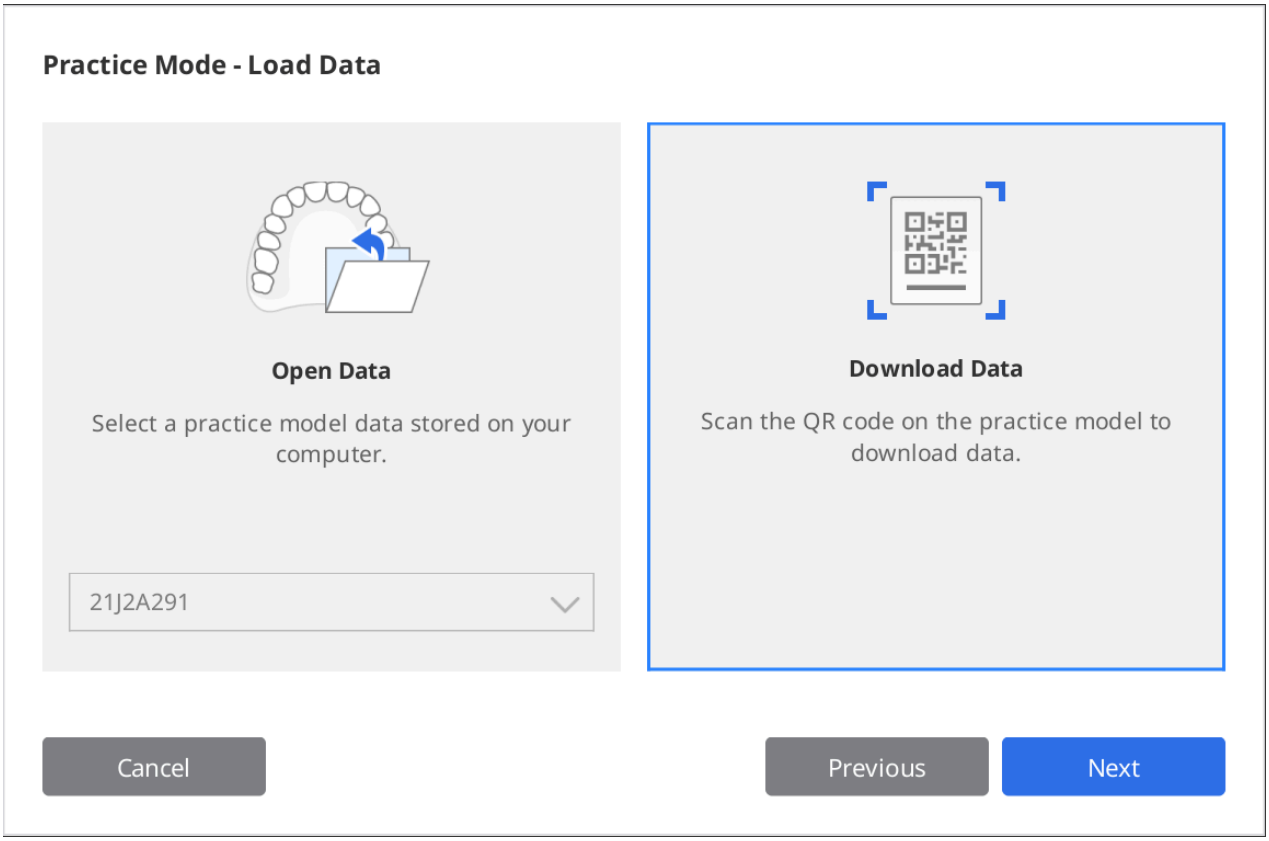



3. Follow the instructions presented on the screen.

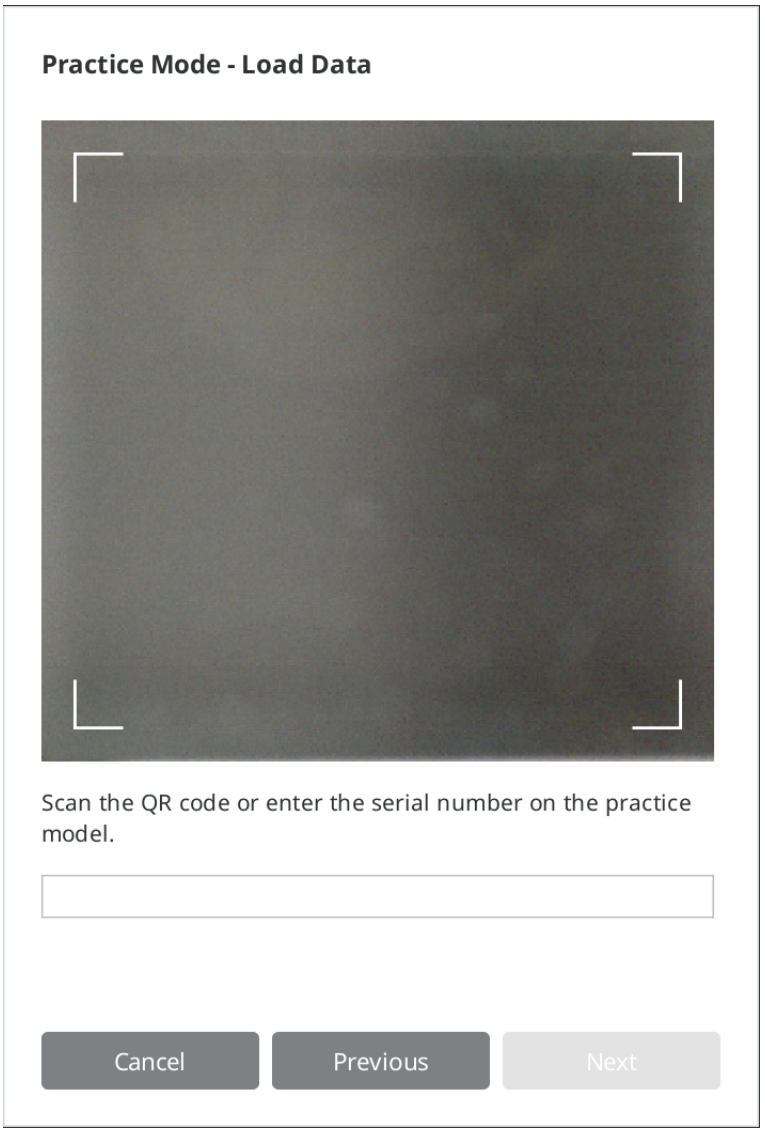



4. Click "Download Data" to download sample data of your practice model from the server.

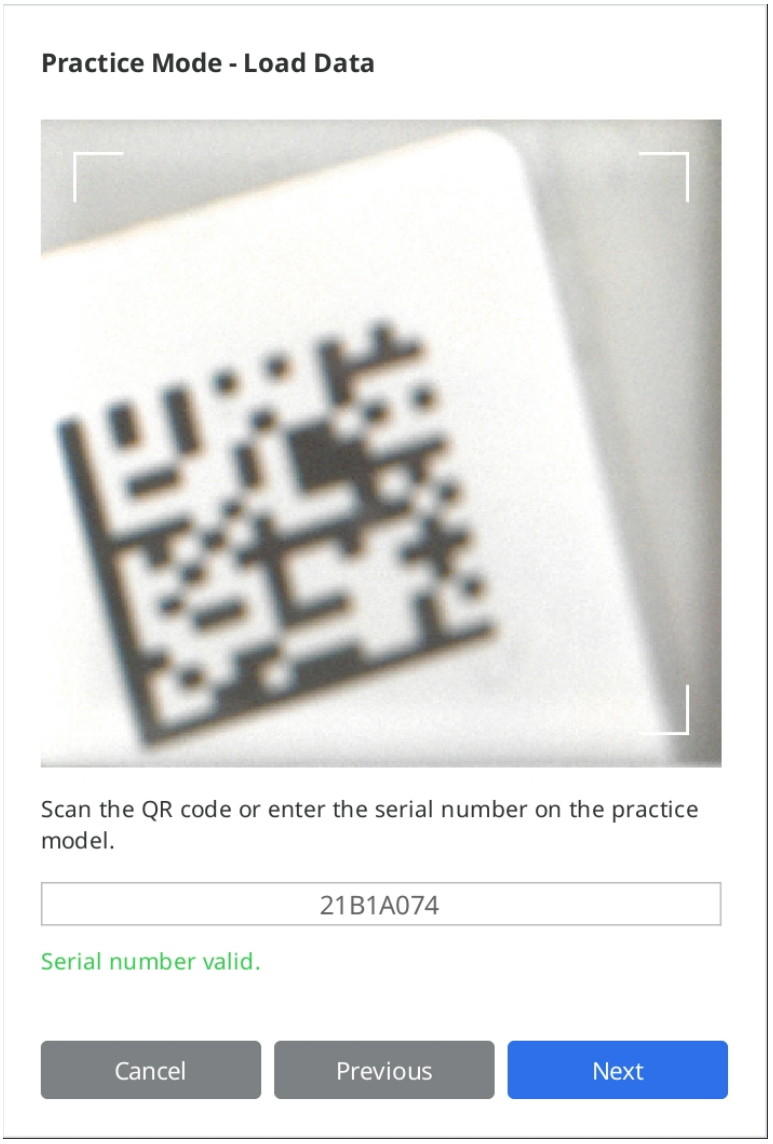
> 🔎**Note**
>
> You can also use the practice model data stored on your computer if you have already downloaded it. In this case, select the serial number that matches the one on your practice model.



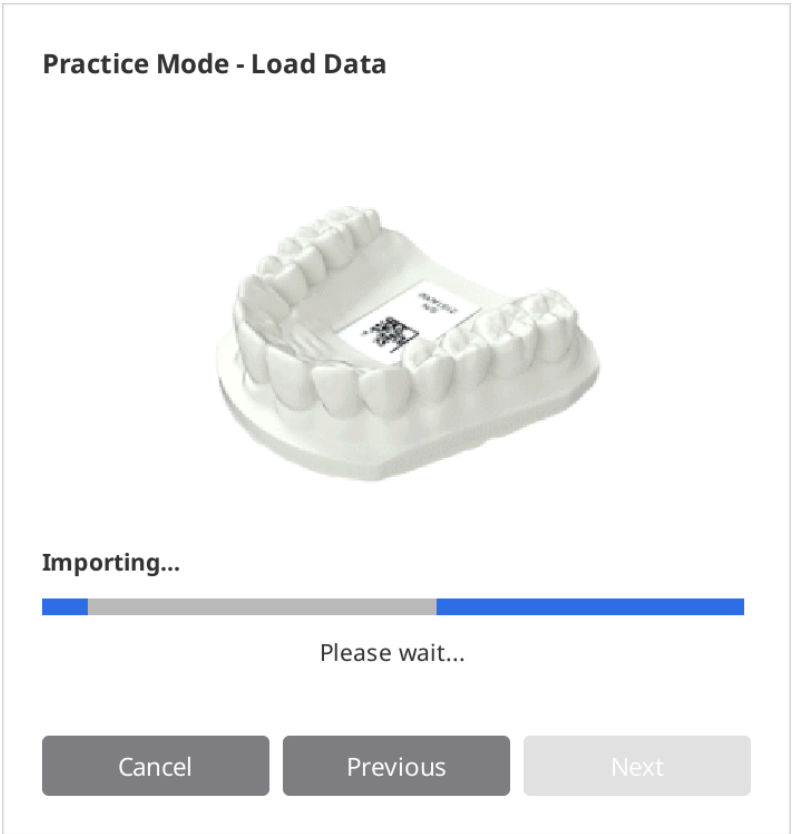
5. Scan the QR code with your scanner.
6. When the camera turns on, it will recognize the QR code. You can enter the serial number on the sticker if the QR code has been damaged.



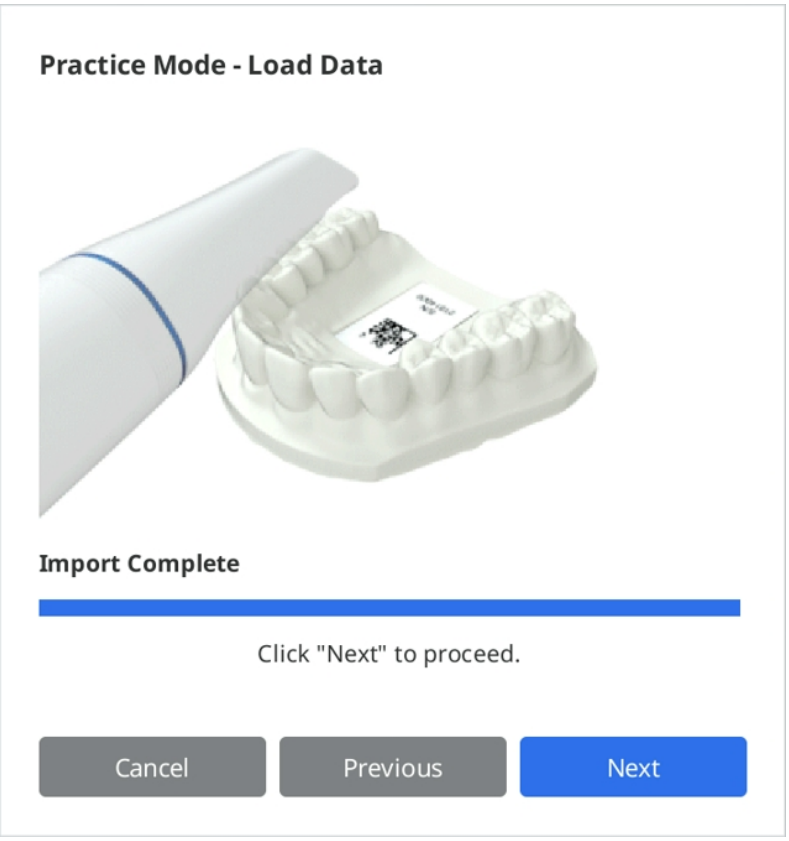

7. Click "Next" once the serial number is validated.



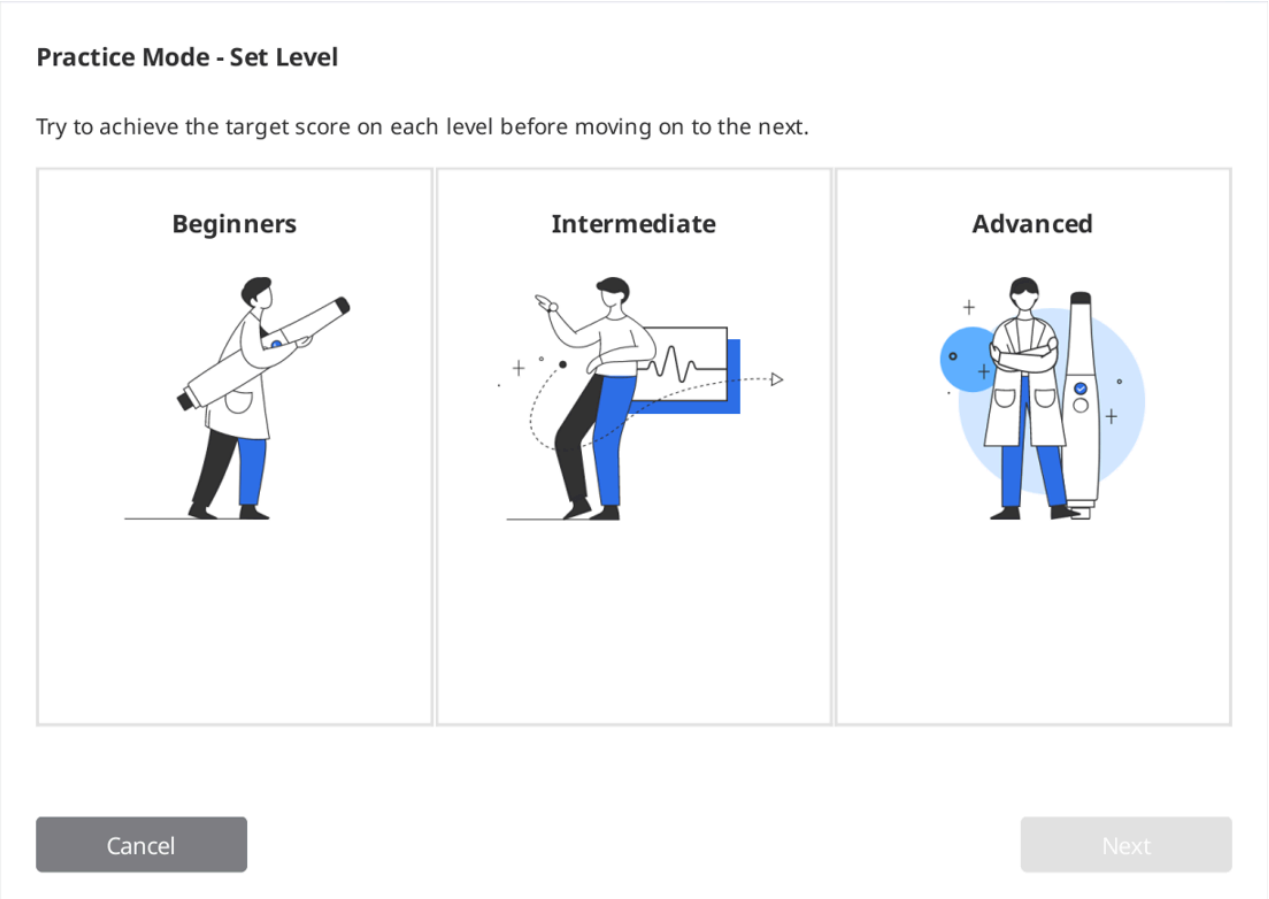

8. An information video on how to scan the practice model will be displayed during the download.



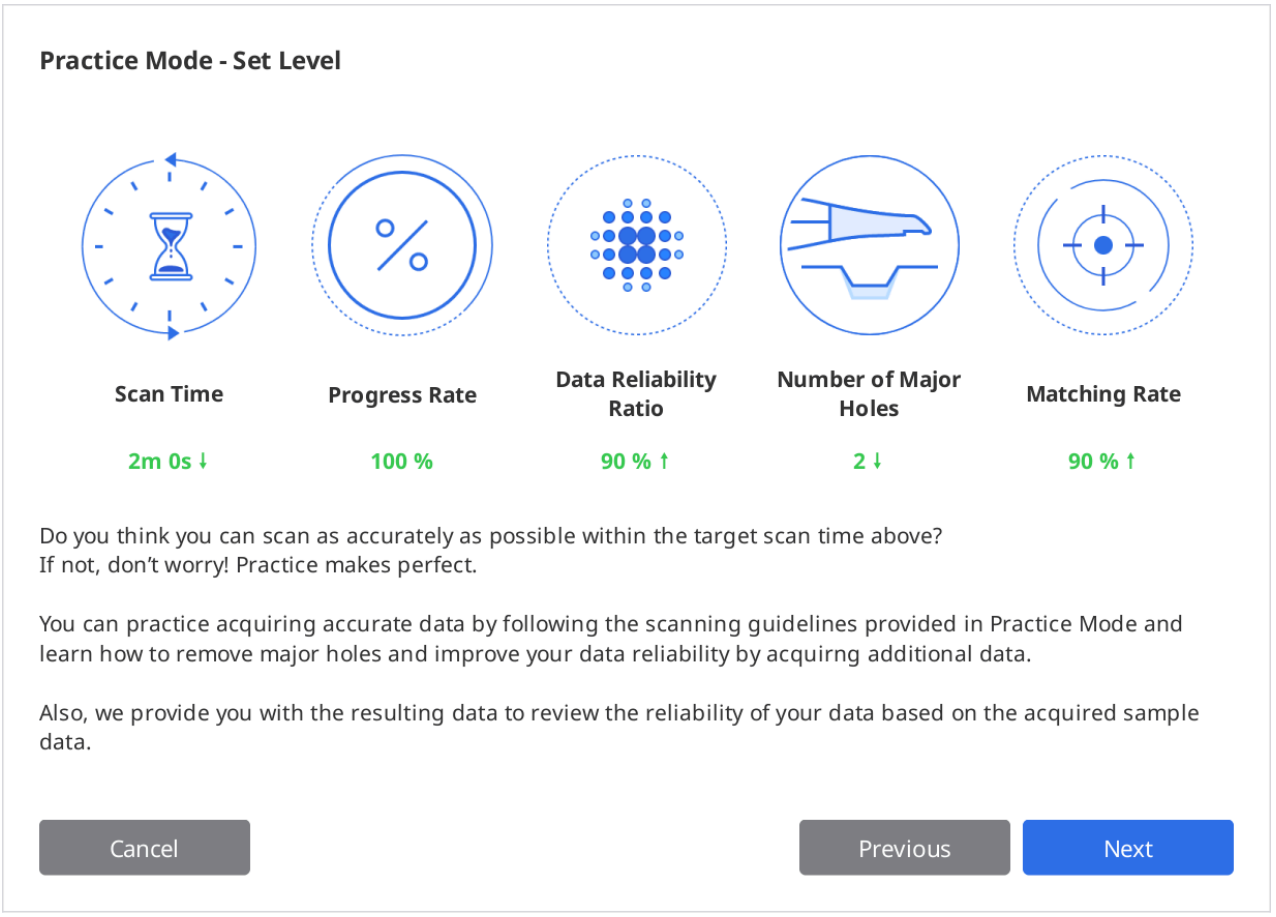
9. When the download is complete, click "Next" to select a level.




10. Select a difficulty level between the "Beginner," "Intermediate," and "Advanced," and click "Next."

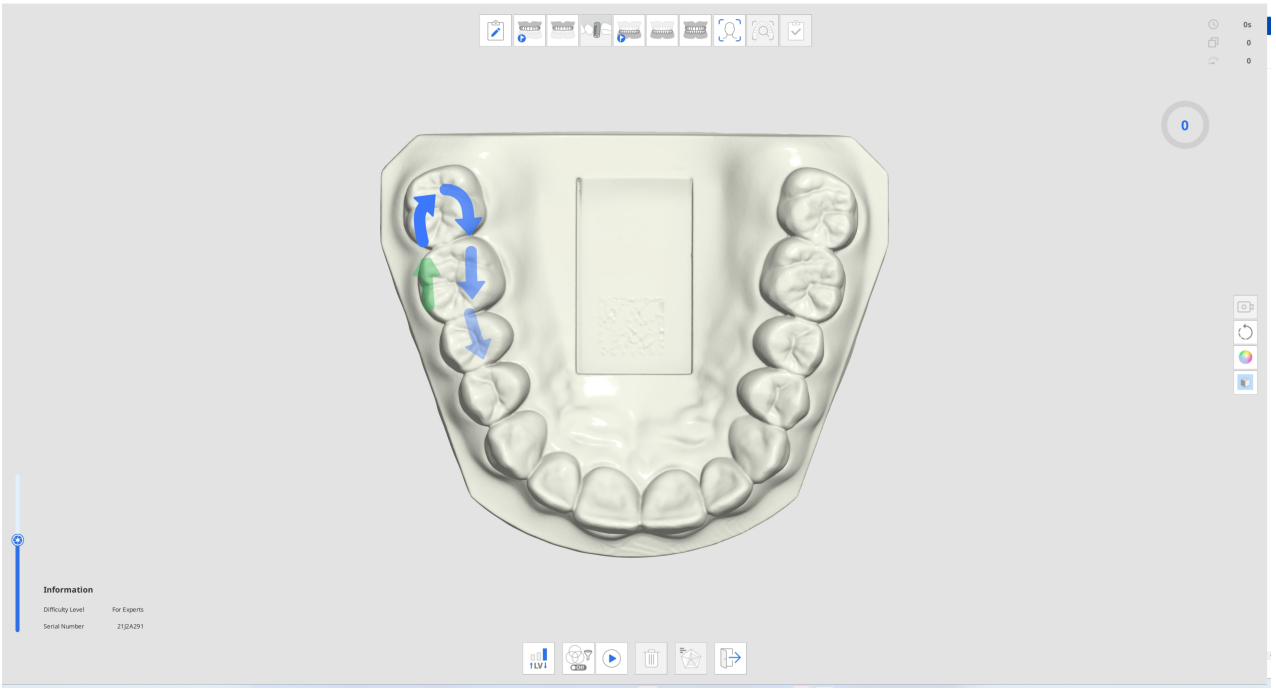



11. Check the goals you need to achieve for the selected difficulty level and click "Next" to start your scanning practice. You can click "Previous" to go back and change the difficulty level.

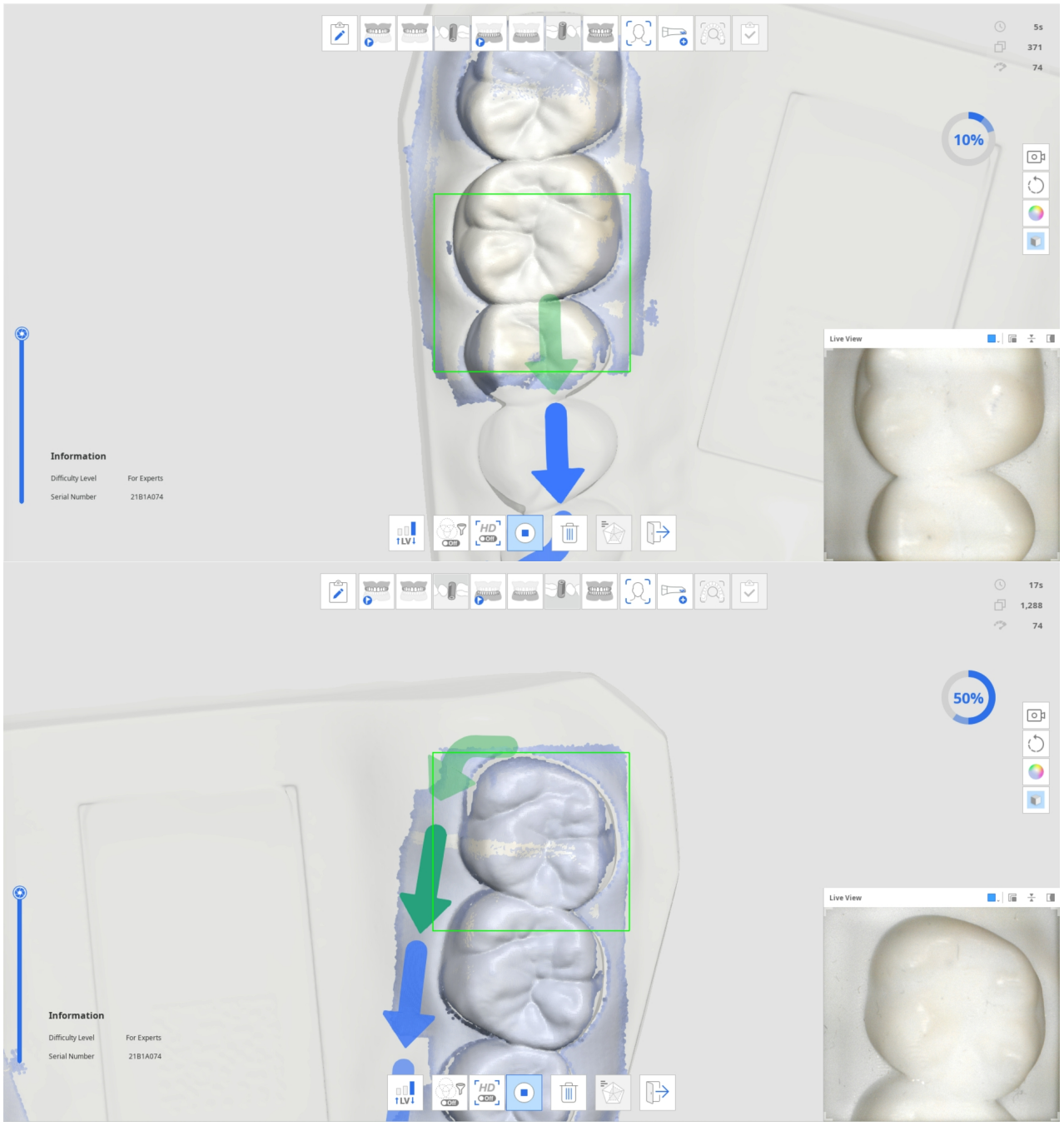



# Scanning Practice

1. Click the "Scan" button to start once the downloaded sample data is displayed on the screen.




2. Follow the instructions and directions of the arrows to scan the practice model.
3. Check the scan information and progress while acquiring data for your effective scanning practice.



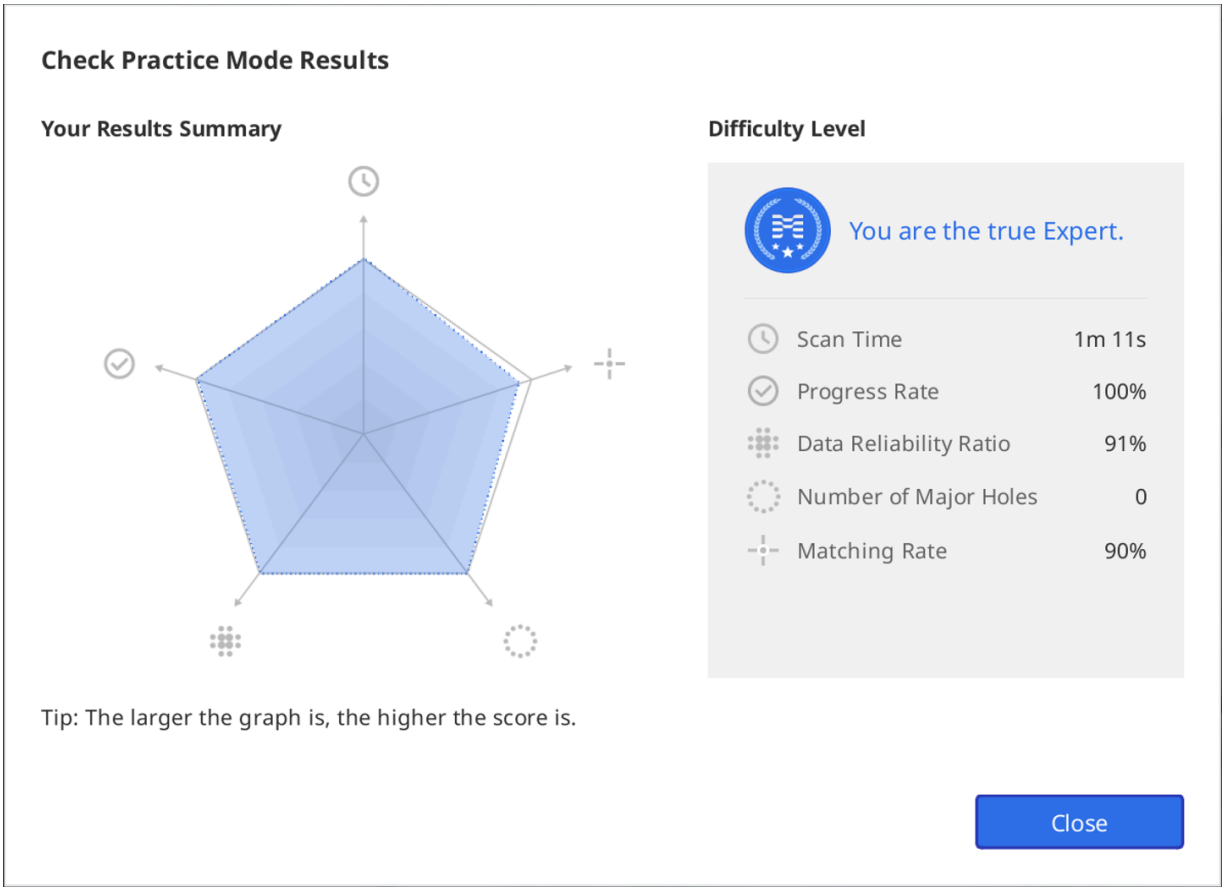

4. When a certain amount of scan data is acquired, the progress turns into a check mark, and the "Check Practice Mode Results" icon at the bottom is enabled.




5. Click the "Check Practice Mode Results" icon to check the score.



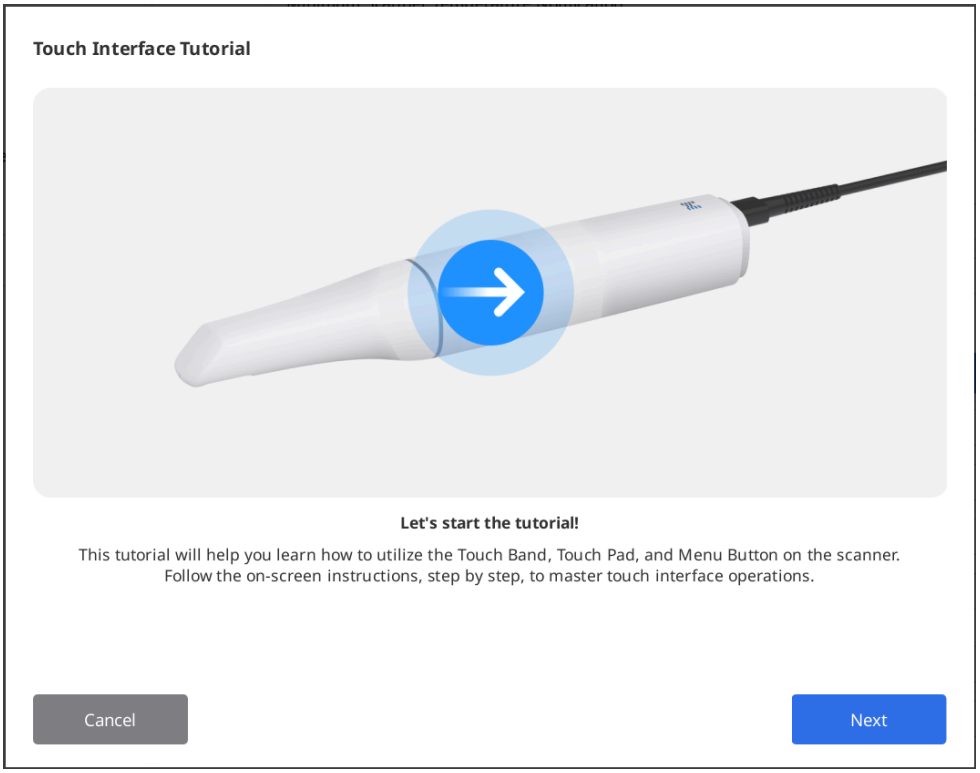

6. The score will be based on the selected difficulty level, scan time, progress rate, data reliability ratio, etc.



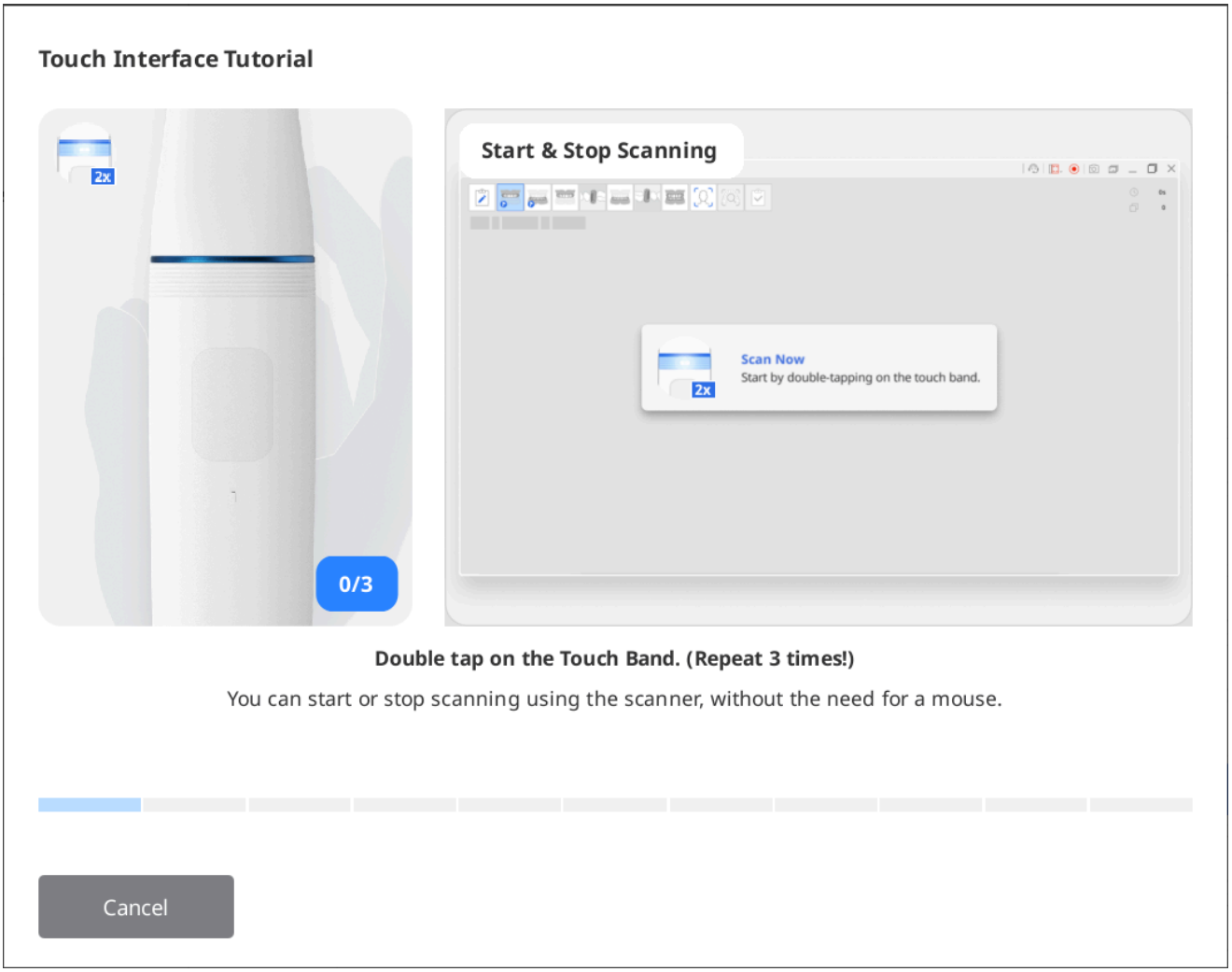

7. You can conduct additional scans after viewing the results and check the results again based on the data after additional scanning.

# Touch Interface Tutorial

The following Touch Interface Tutorial dialog appears when the program connects with the i900 scanner for the first time.



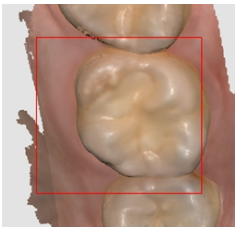

Follow the instructions in the dialog to learn how to utilize the touch interface so that you can scan with minimal mouse and keyboard interaction.




> 🔎**Note**
>
> To rerun the tutorial, go to Settings > Scanner and click the "Run" button next to the "Touch Interface Tutorial" option.

# Indication During Scanning

The color of the rectangular box that appears during scanning indicates the scan status.

| | |
|---|---|
|  |  |
| Scanning and tracking are proceeding normally. | Lost tracking while scanning.<br>You need to reposition the scanner tip to scan continuously from where you left off. |

# Smart Arrows

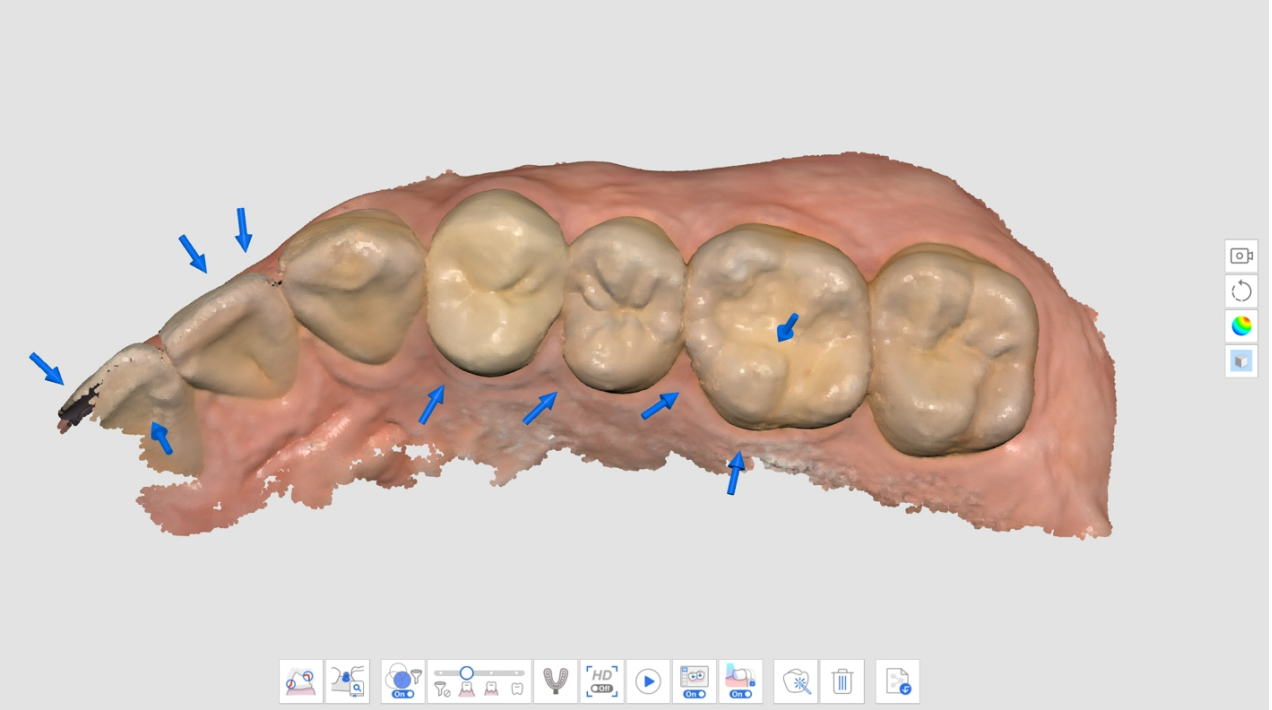
The Smart Arrows indicates areas of low reliability on the acquired scan data.

When you stop scanning, a blue arrow points to the area with insufficient reliability. The arrows disappear when data reliability improves with additional scanning.

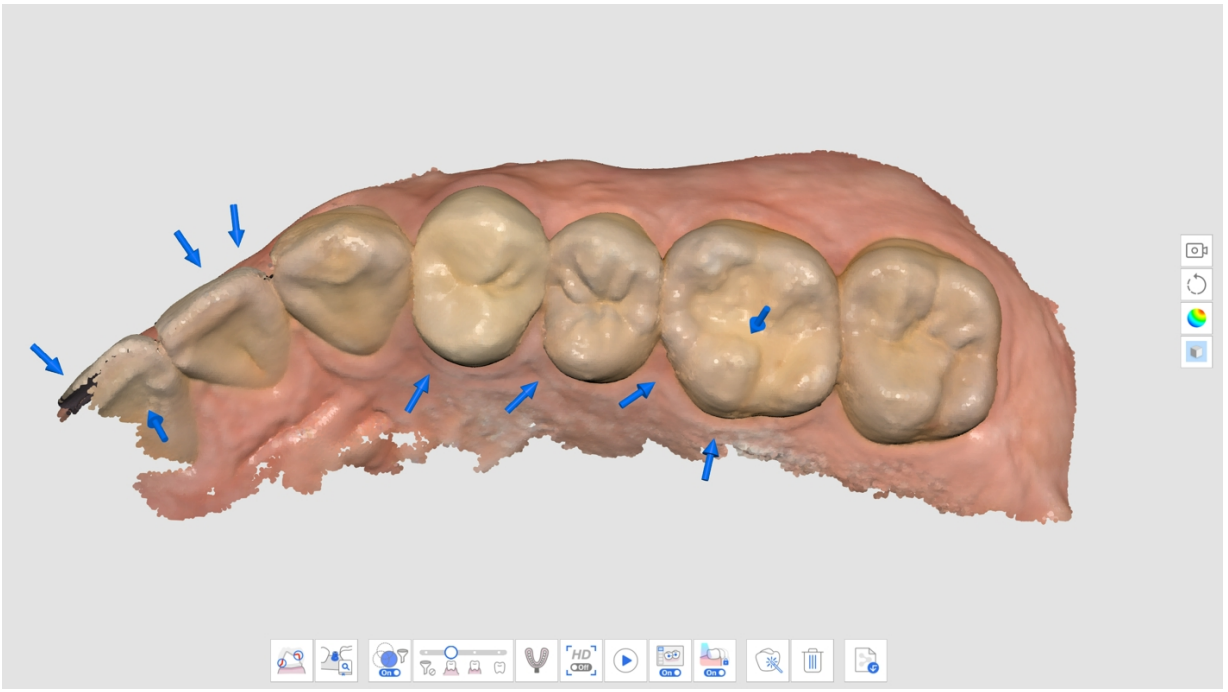
This function is only supported in the scan stages:

- Pre-Op for Maxilla
- Pre-Op for Mandible
- Maxilla
- Mandible
- Smart Scan Review

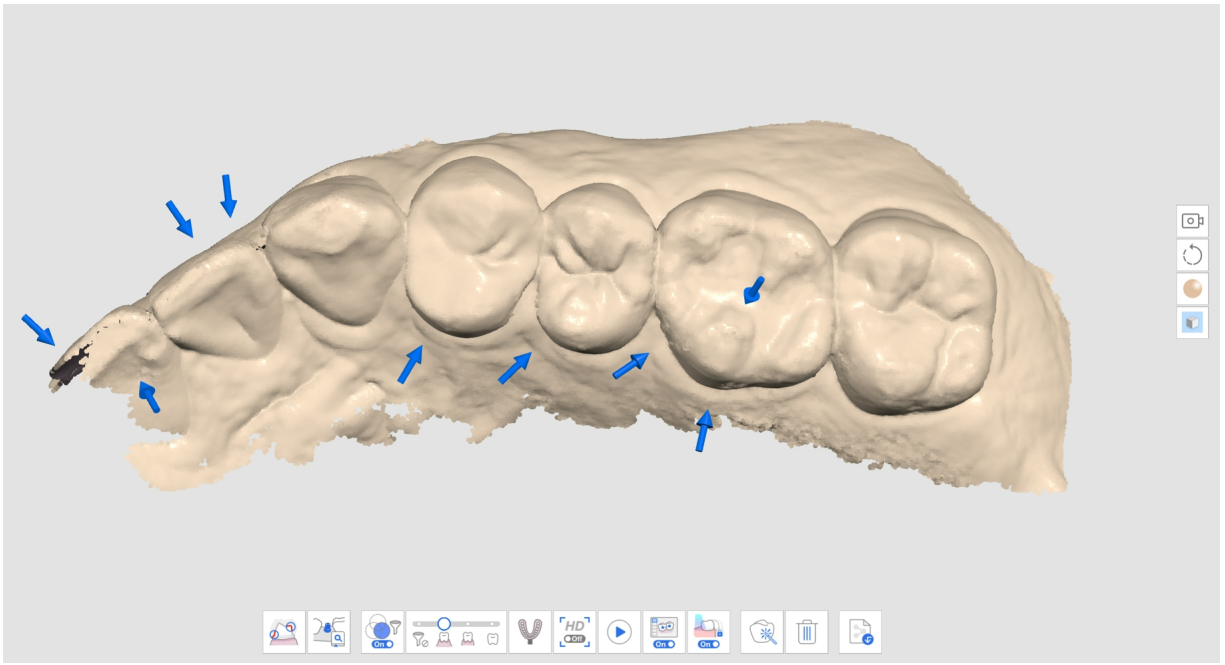
1. Scan data in one of the supported scan stages.
2. When the scan stops, blue arrows will appear to indicate areas with low data reliability.



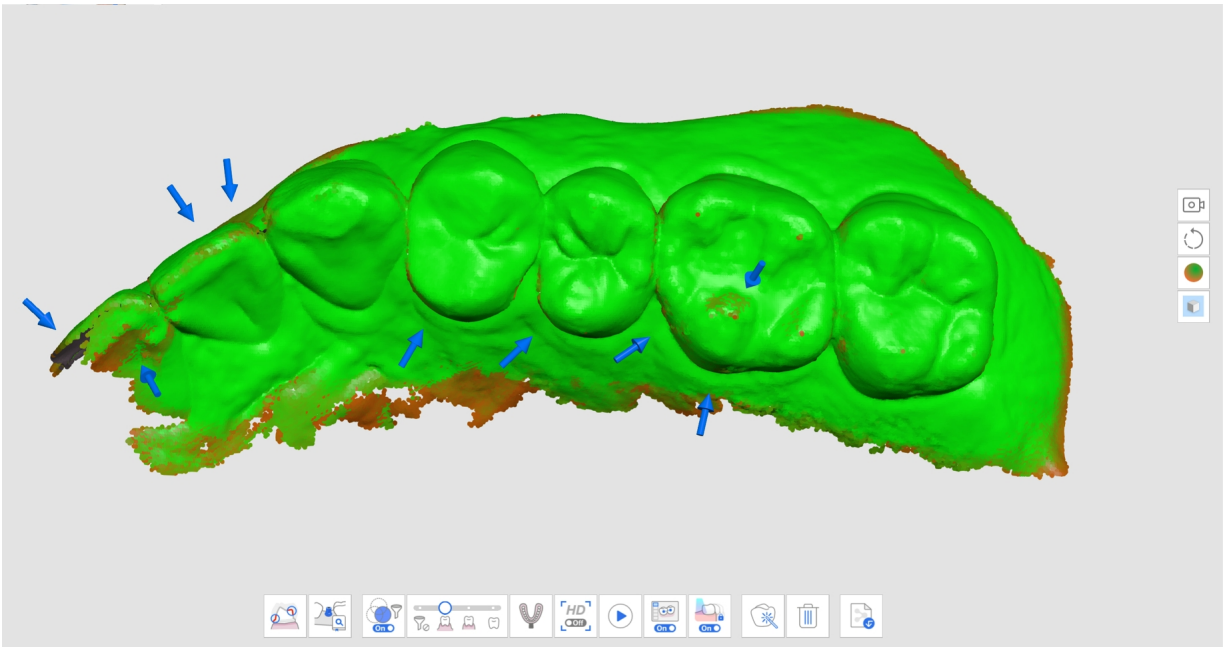
3. Check the scan data by reviewing the marked areas. You can inspect the area in closer detail by selecting the "Reliability Map" or "Matte + Reliability Map" for Data Display Mode.
    - Matte



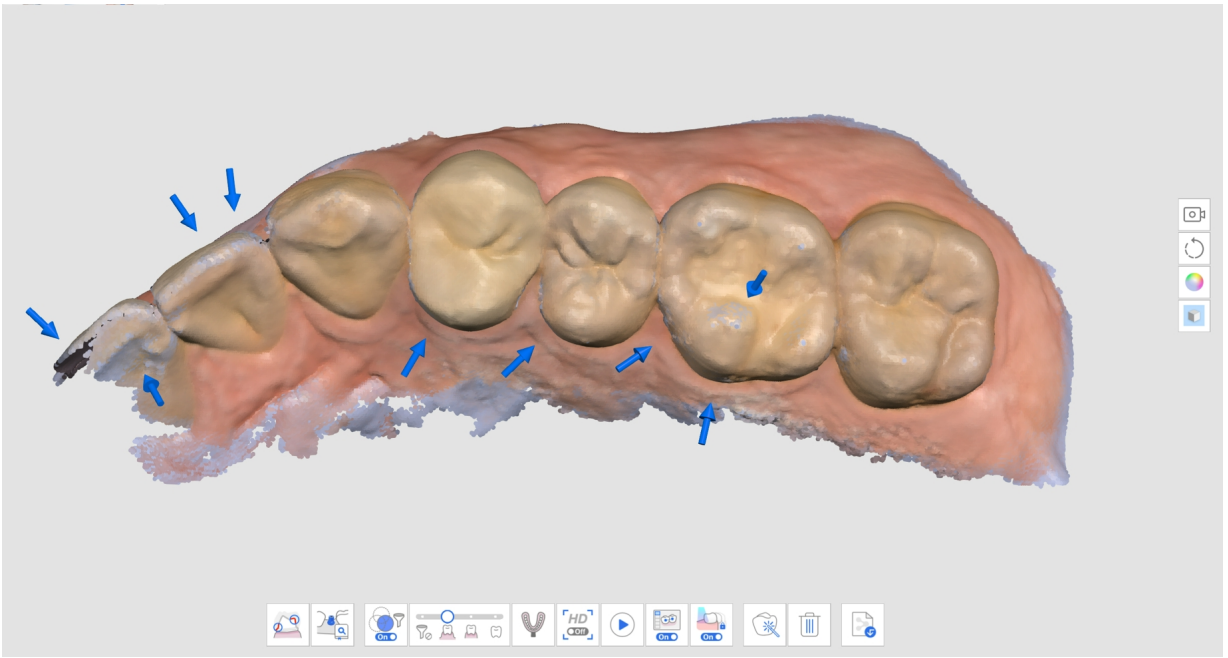
- Monochrome



- Reliability Map



- Matte + Reliability Map

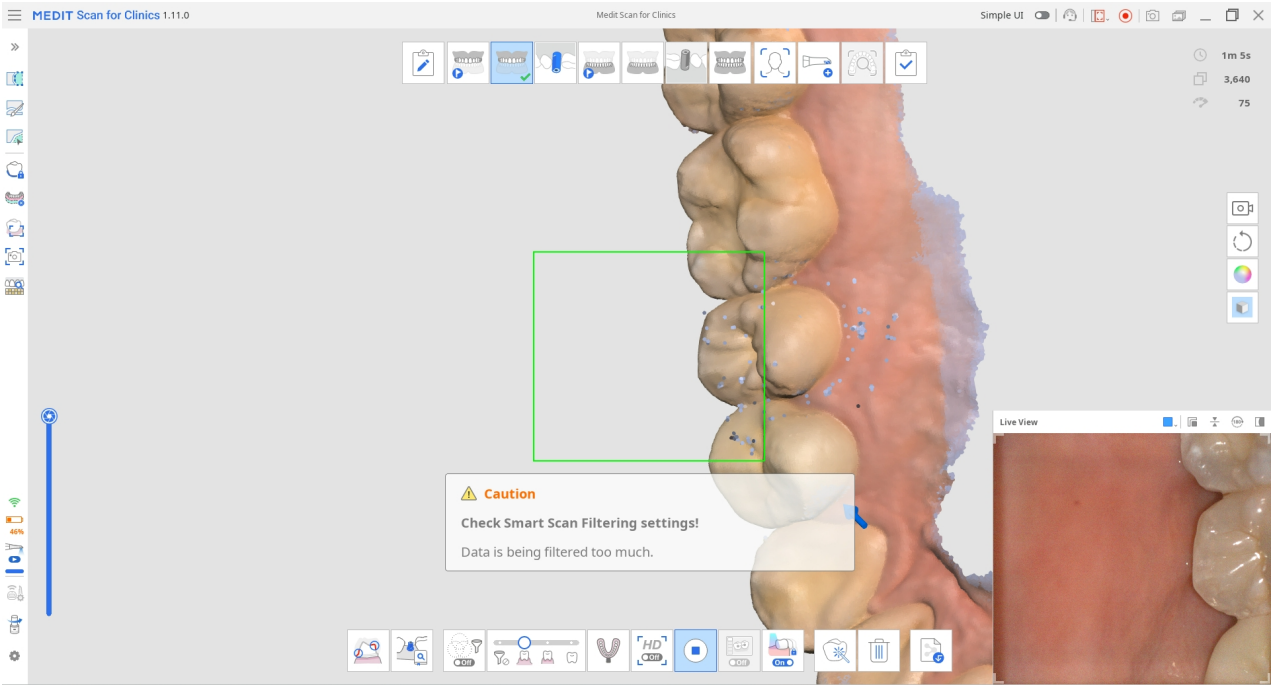


4. Scan additional data to fulfill the lacking areas. Move the scanner in multiple directions and scan data from various angles to improve data reliability.
5. The arrow disappears when enough reliable data is acquired.
6. Scan thoroughly to remove all arrows around your areas of interest (for example, if creating a restoration, focusing on margins and adjacent teeth) and move on to the next scan stage.

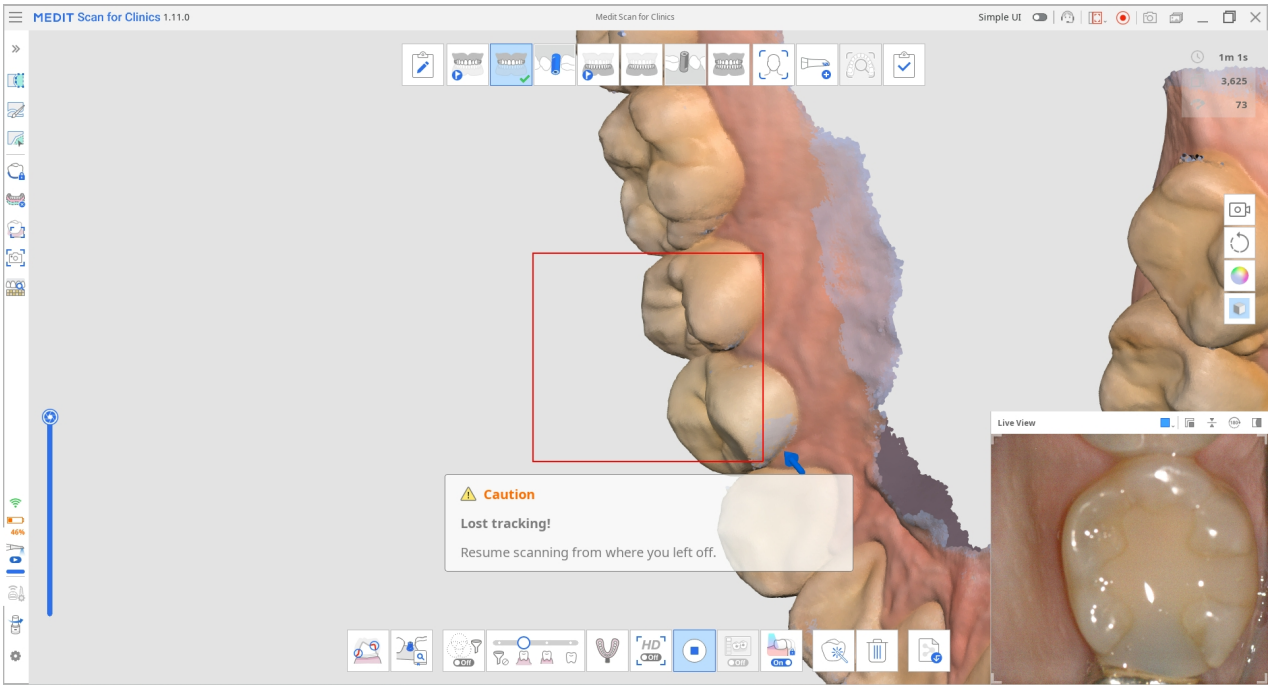
# Smart Scan Guide

The Smart Scan Guide identifies any unusual actions during the scanning and provides appropriate guidance. The message automatically disappears after a period of time or if the situation is resolved.

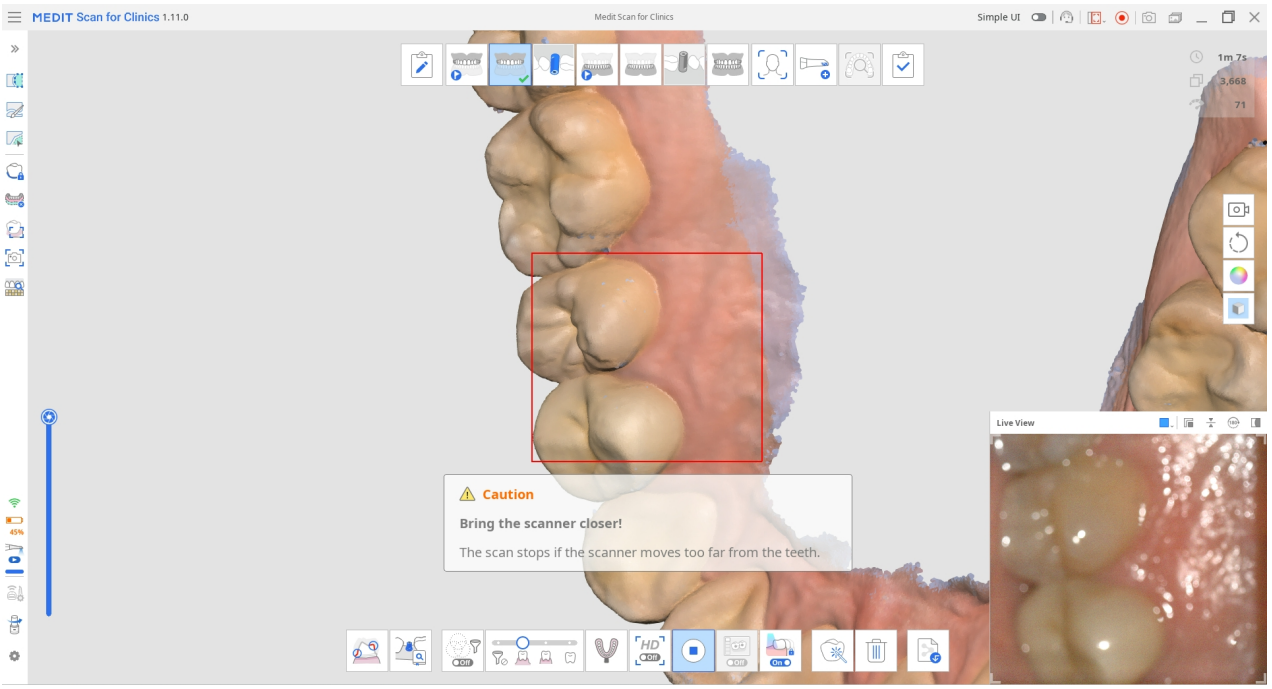
- When there is too much data filtered out while scanning using Smart Scan Filtering



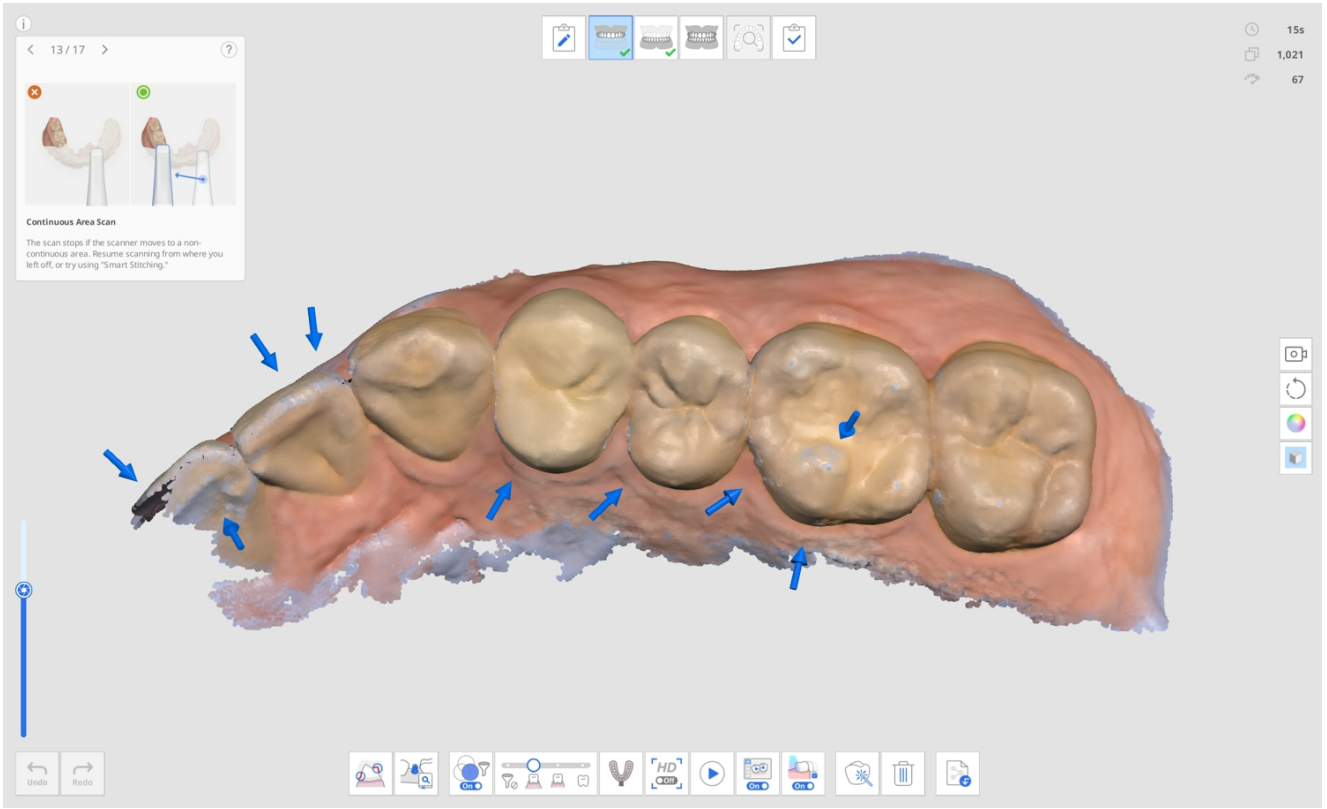

- When the scan is inconsistent, and the scan continues from a new place (when Smart Stitching is turned off)




- When the scanner is not close enough to the teeth




When the scan stops, additional guides are provided in the Info Box in the top left corner.



# Stage Management

## Stages Management

Scan for Clinics offers Maxilla, Mandible, and Occlusion as default scan stages.



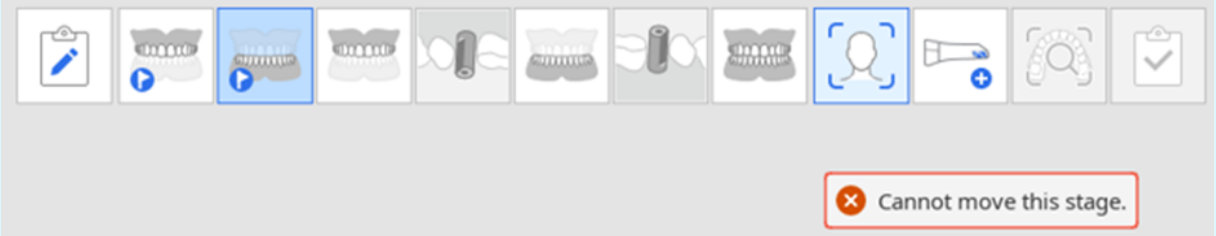
The Stage Management icon allows users to add or delete the stages to/from their workflow and change the order regardless of the form information registered in Medit Link.



In the Stage Management dialog, you can configure your workflow by adding or removing stages.

**Note**

- You cannot change the order of the Face and Additional Data stages in the workflow.




- You cannot change the order of the Smart Scan Review stage, but you can remove the stage on Settings > Scan Data Analysis > Smart Scan Review.
- You cannot change the order of the Complete stage or remove the Mandible/Maxilla stage.

## Scan Stages

The following scan stages can be set in the Scan Management stage:

| | | |
|---|---|---|
|  | Pre-Op for Maxilla | Acquire a 3D image of the pre-op for the maxilla. |
|  | Pre-Op for Mandible | Acquire a 3D image of the pre-op for the mandible. |
|  | Maxilla | Acquire a 3D image of the maxilla. |
|  | Maxillary Scan Body | Acquire a 3D image of the scan body of the maxilla. |
|  | Mandible | Acquire a 3D image of the mandible. |
|  | Mandibular Scan Body | Acquire a 3D image of the scan body of the mandible. |

| | | |
|---|---|---|
|  | Edentulous Maxilla | Acquire a 3D image of the edentulous maxilla. |
|  | Maxillary Denture | Acquire a 3D image of the maxillary denture. |
|  | Edentulous Mandible | Acquire a 3D image of the edentulous mandible. |
|  | Mandibular Denture | Acquire a 3D image of the mandibular denture. |
|  | Occlusion | Acquire a 3D image of the occlusion alignment. |
|  | Face | Acquire 3D data of the teeth, mouth, nose, etc. |

| | | |
|---|---|---|
|  | Additional Data | Acquire additional data for the scanning process. You can scan patients' existing restorations, temporary restorations, etc. |

🔎**Note**

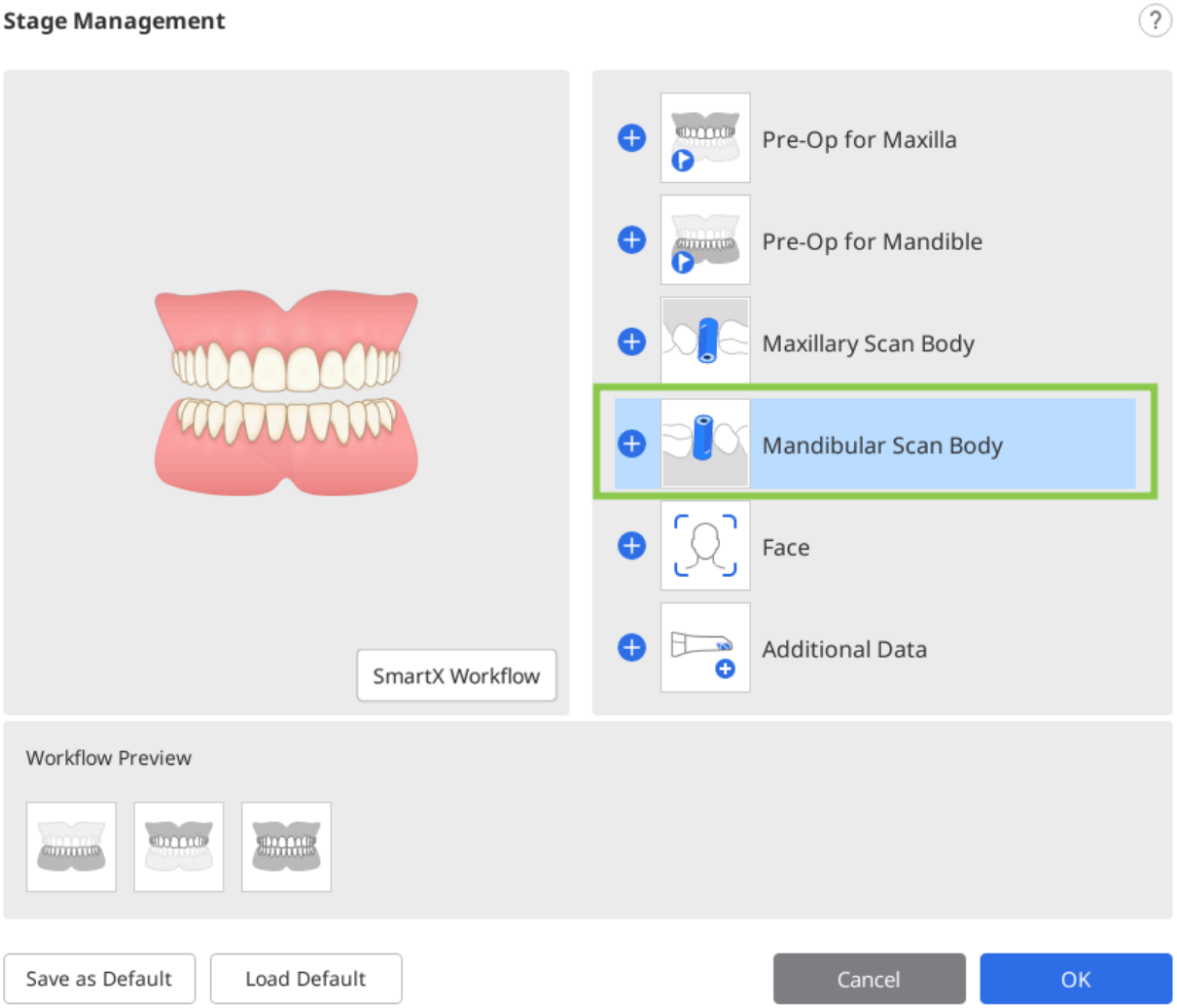
- The Maxillary/Mandibular Denture stage is available when Full Denture, Replica Denture, or Implant Supported Denture is specified in the form information on Medit Link.
- The Edentulous Maxilla/Mandible stage is available when Full Denture or Implant Supported Denture is specified in the form information on Medit Link.

# Add/Remove Stages

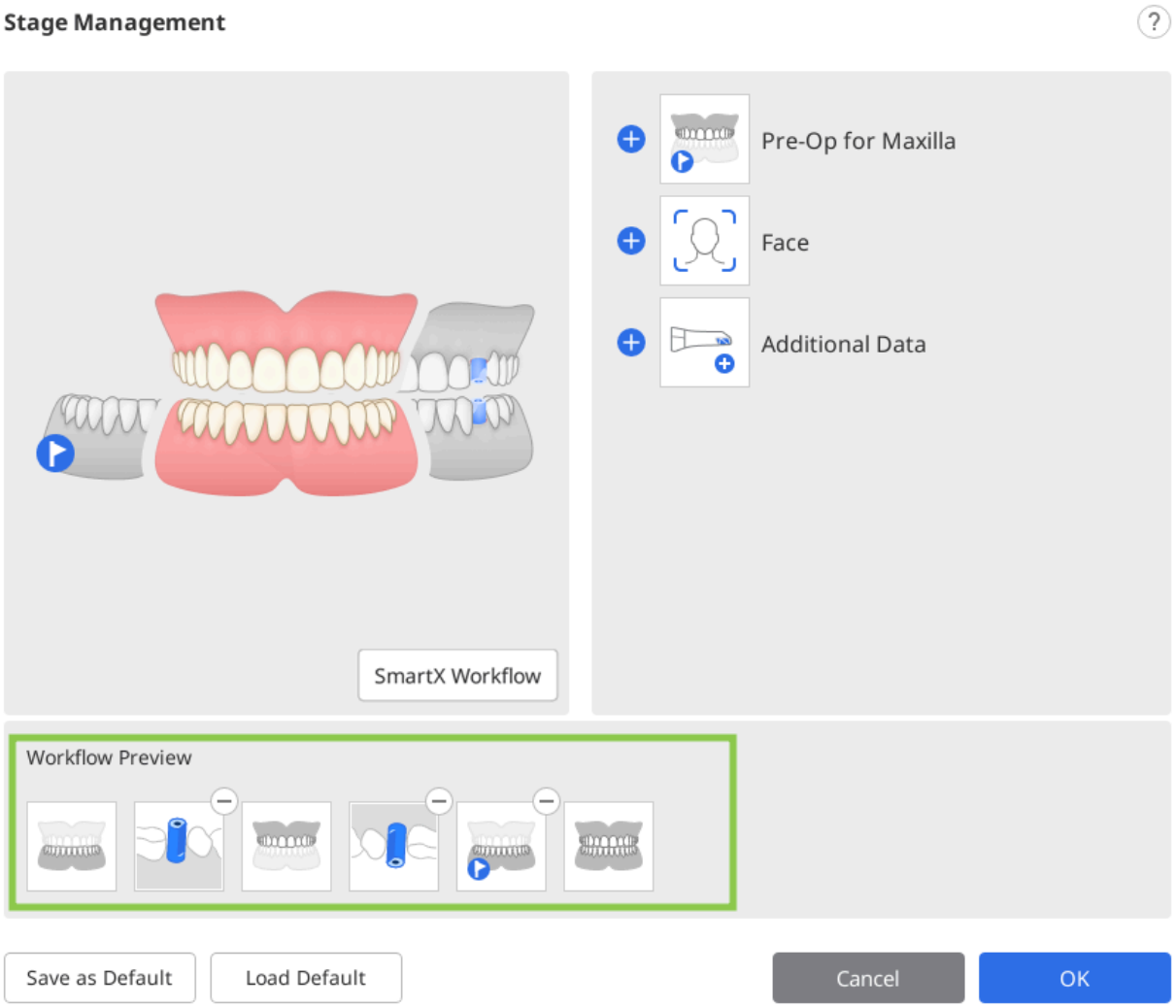
1. Click the Stage Management icon.



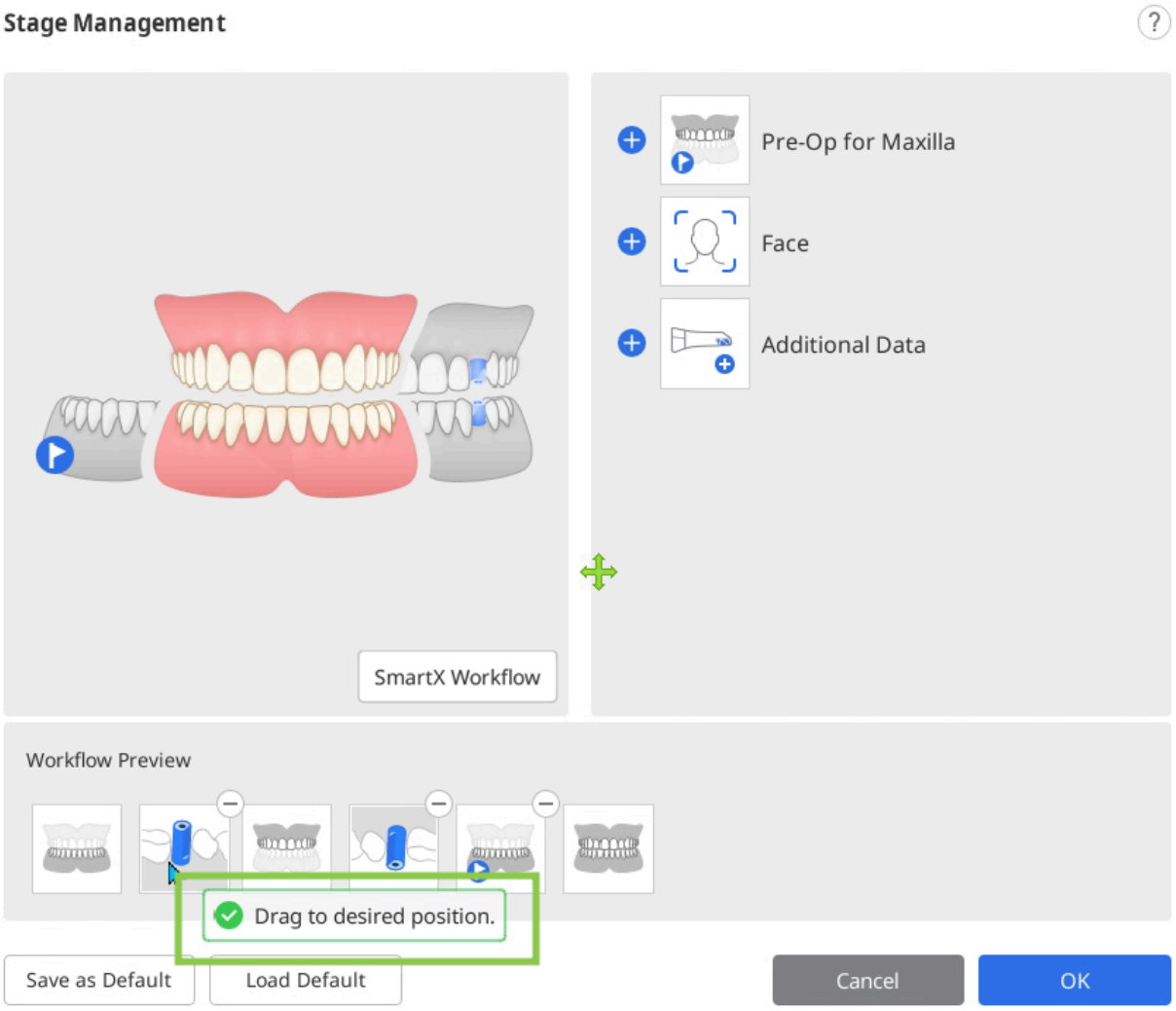
2. The Stage Management dialog appears.
3. Click the stages you want to add from the list in the right section.




4. The selected stage is added to the Workflow Preview section at the bottom.




5. You can change the order of stages in the workflow by dragging the stage icons in the Workflow Preview. Clicking ⊖ in the upper right corner of the stage icon will delete the stage from the workflow.

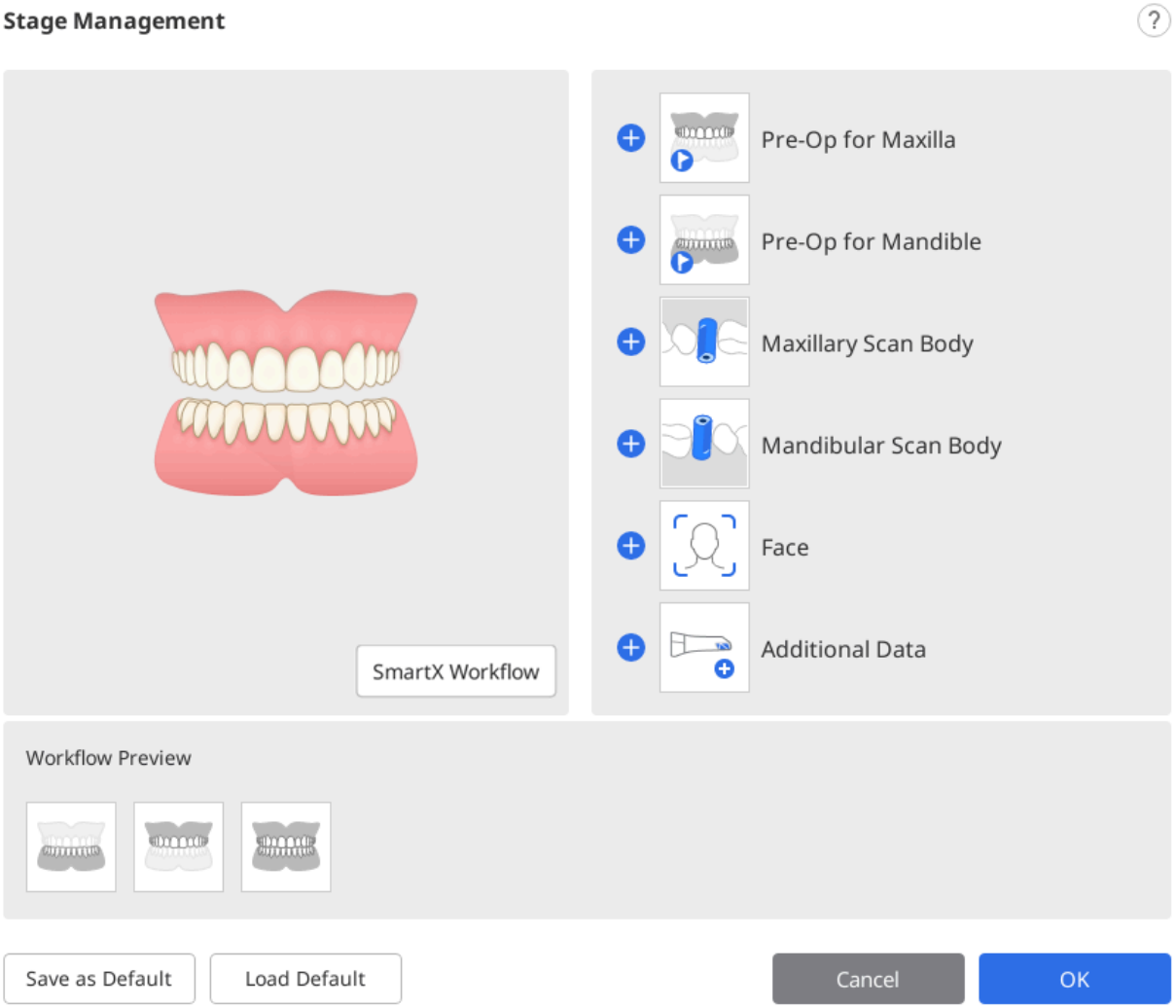



6. Click "OK" to save the changed workflow.
7. The Stage Management dialog disappears, and the stage icons at the top of the screen update according to the changed workflow.

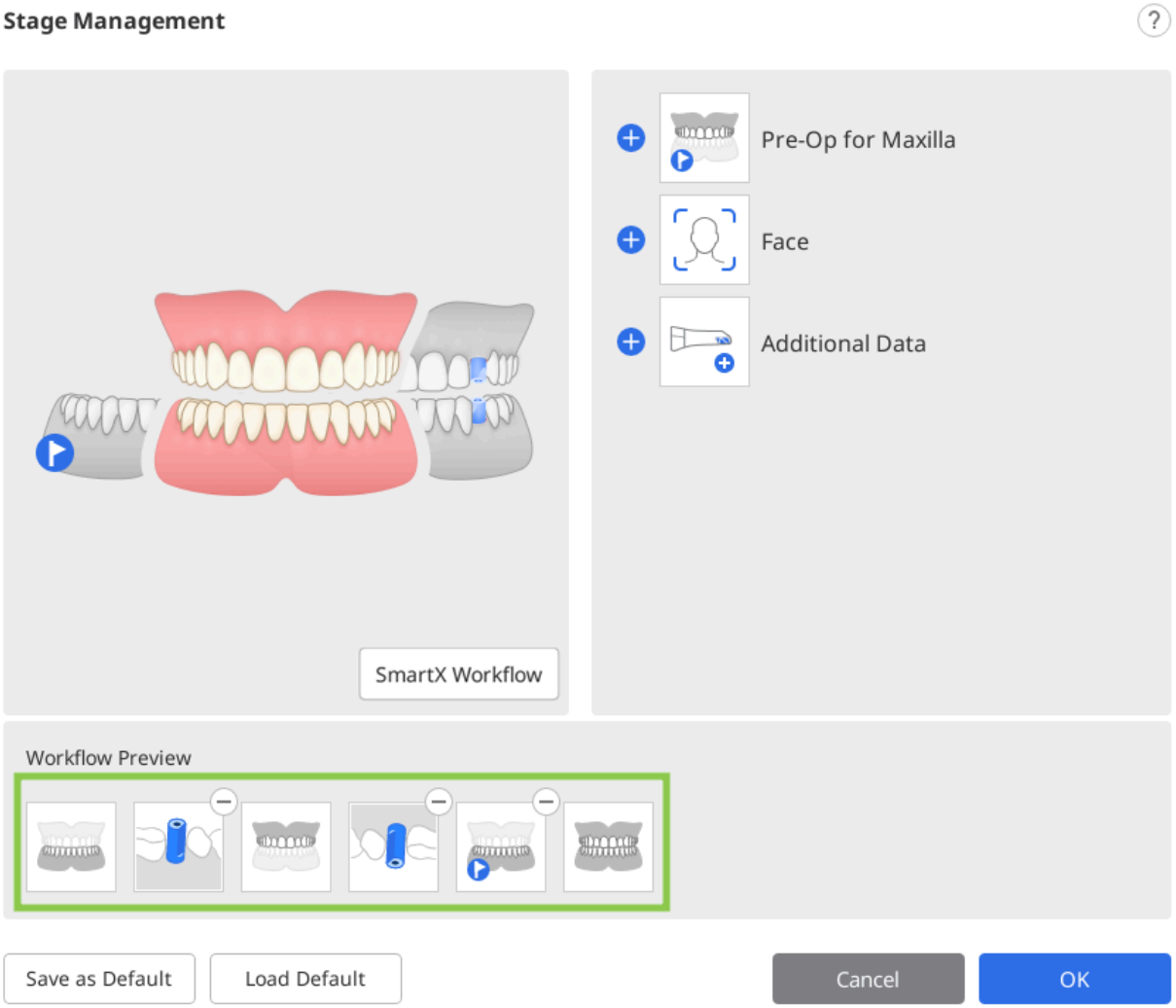


# Save as Default Workflow

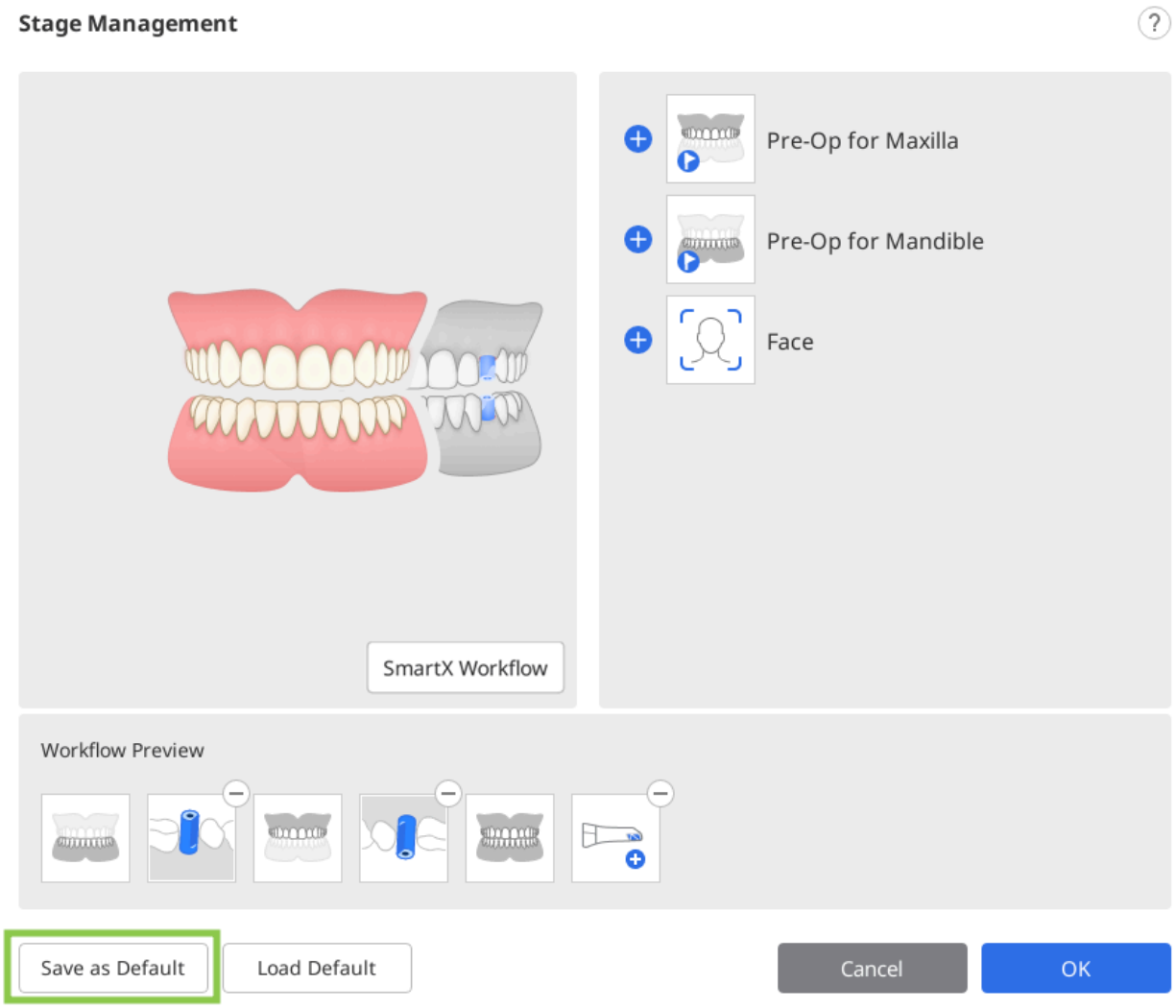
1. Click the Stage Management icon to run Stage Management.



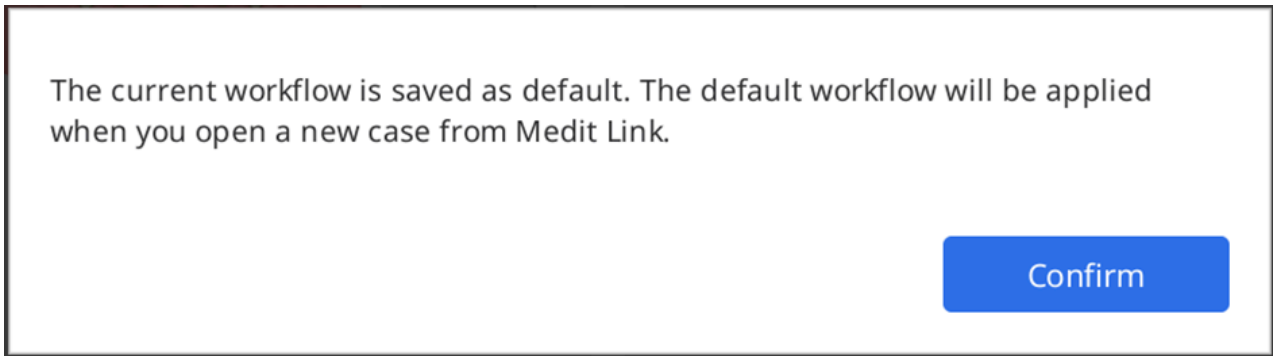

2. Add the desired stages from the stage list to the Workflow Preview.




3. Click "Save as Default" at the bottom to save the changed workflow.




4. Click "Confirm" to continue.




5. The default scan stages are displayed at the top of the screen when you open a new case.




# Change Stage Order

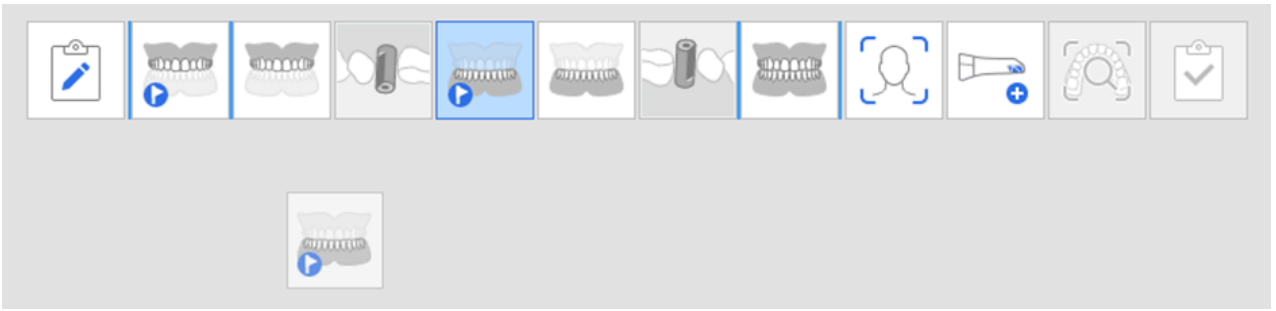
You can move a stage icon to the desired position where blue bars appear.

Let's say you want to stage a Mandible stage to the frontmost position.

1. Check the stage icons at the top of the screen.



2. Click and drag the Mandible stage icon. Then, the blue bar appears where the scan stage can be moved.



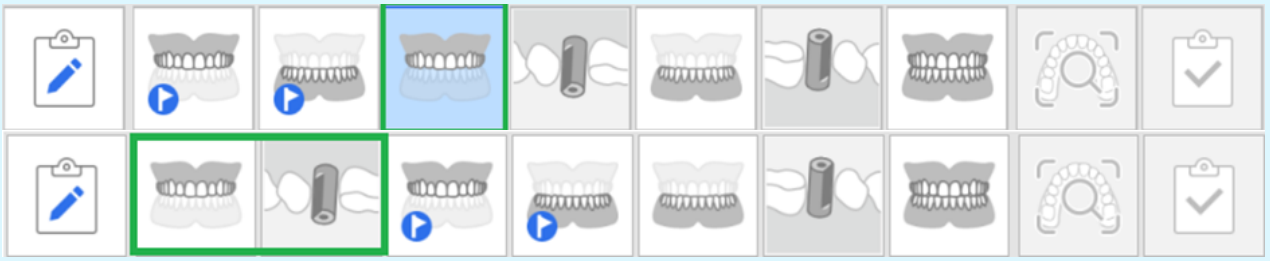
3. Move the scan stage to the desired location.



4. Once changed, the program will continue to start with the changed order from then on.

> **Note**
>
> The Scan Body stage moves along with the Mandible/Maxilla stage.

For example, if you drag the Mandible stage to the leftmost position, the Mandibular Scan Body stage moves with it, as shown below.



# Pre-Op for Maxilla/Mandible

## Pre-Op for Maxilla Stage



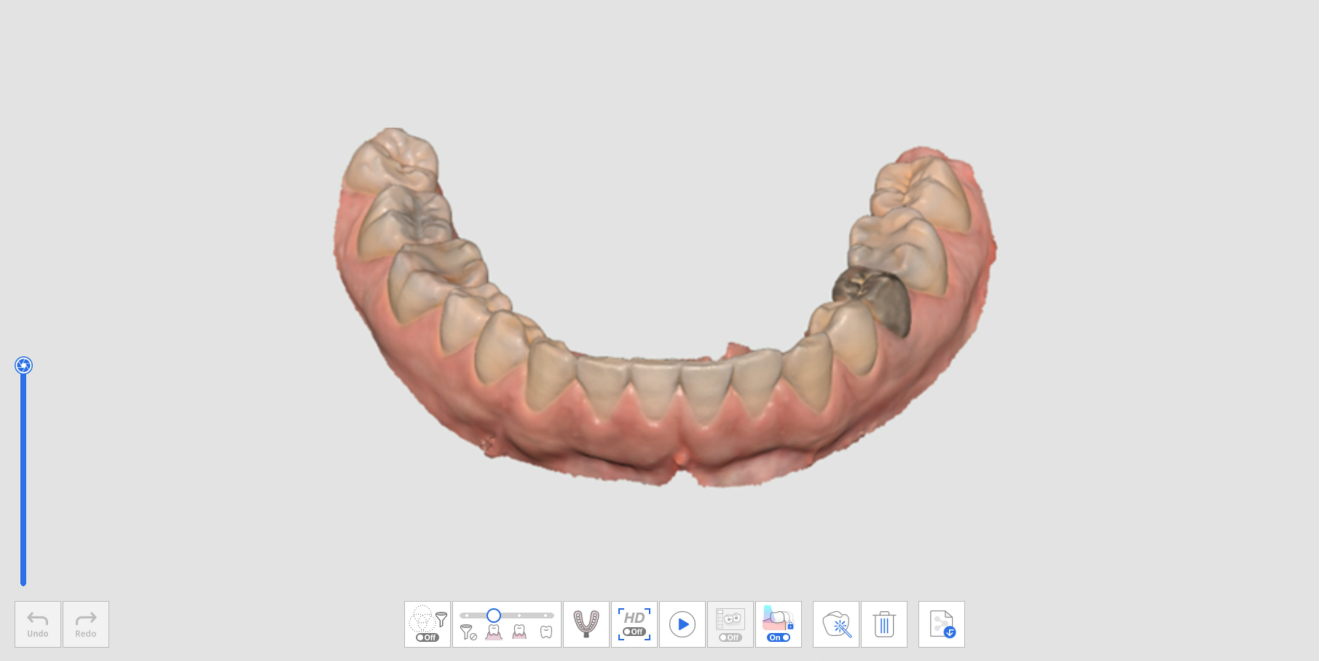
Acquire a 3D image of the pre-op for the maxilla.




## Pre-Op for Mandible Stage



Acquire a 3D image of the pre-op for the mandible.



# Additional Tool in Pre-Op Stage

Please refer to Scan Stage Tools for more information about how to use tools that appear at the bottom of the screen for each stage.

| | | |
|---|---|---|
| | Impression Scan | Acquire impression data and align it with intraoral scan data in real time. |

# Maxilla/Mandible

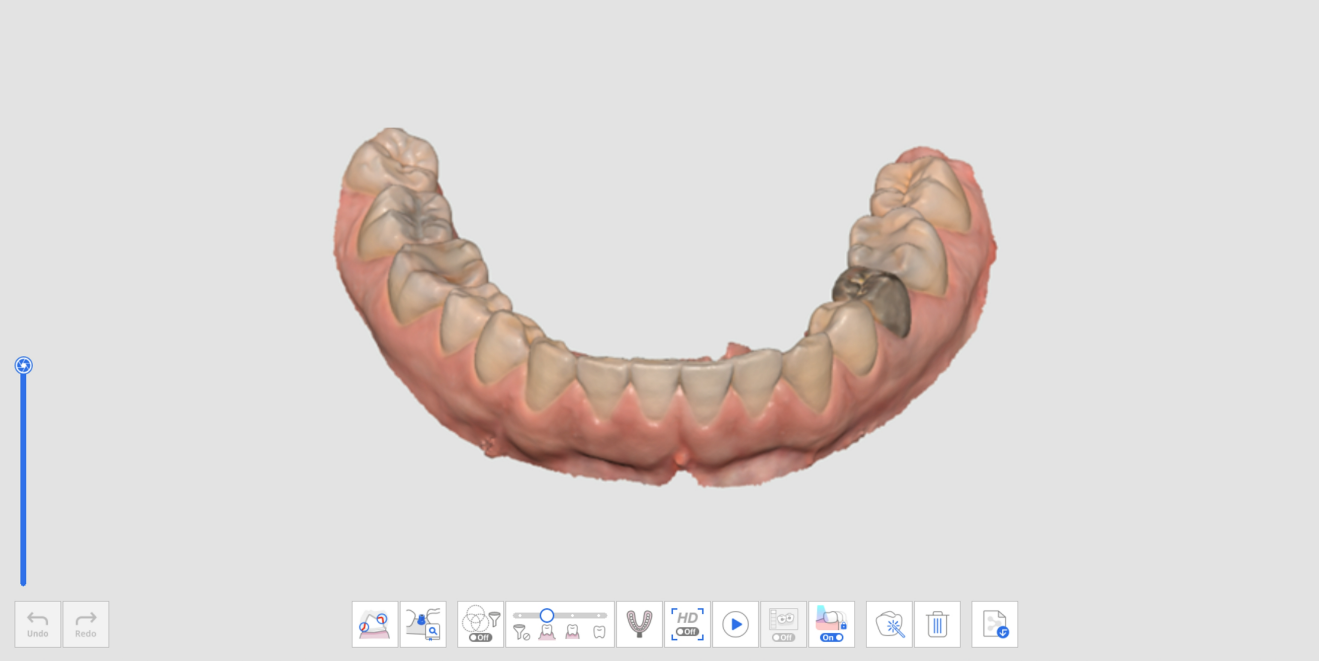
## Maxilla Stage

| | |
|---|---|
|  | Acquire a 3D image of the maxilla. |




## Mandible Stage

| | |
|---|---|
|  | Acquire a 3D image of the mandible. |



# Additional Tools in Maxilla/Mandible Stage

Please refer to Scan Stage Tools for more information about using tools at the bottom of the screen.

| | | |
|---|---|---|
|  | Impression Scan | Acquire impression data and align it with intraoral scan data in real time.<br>* Refer to Case and Workflow Examples > Impression Scan for a detailed description of how to use the tool. |
|  | Abutment Library Matching | Manage custom abutment libraries.<br>This library data is aligned automatically with the scan data, minimizing the need to scan difficult-to-reach areas.<br>The library data can be shared for further processes, such as design.<br>* Refer to Case and Workflow Examples > Abutment Library Matching for a detailed description of how to use the tool. |
|  | Preparation Review | Check the prepared tooth data with insertion path and distance measurements.<br>* Refer to Case and Workflow Examples > Preparation Review for a detailed description of how to use the tool. |

# Scan Body

## Maxillary Scan Body Stage

| | |
|---|---|
|  | Acquire a 3D image of the scan body of the maxilla. |

## Mandibular Scan Body Stage

| | |
|---|---|
|  | Acquire a 3D image of the scan body of the mandible. |



## Additional Tools for Scan Body Stage

Please refer to Scan Stage Tools for more information about using tools at the bottom of the screen for each stage.

| | | |
|---|---|---|
|  | Scan Body Library Matching | Manage custom scan body libraries.<br>This library data is aligned automatically with the scan data, minimizing the need to scan difficult-to-reach areas.<br>The library data can be shared for further processes, such as design. |

| | | |
|---|---|---|
| | | * Refer to Case and Workflow Examples > Scan Body Library Matching for a detailed description of how to use the tool. |
|  | Replicate Existing Data | Replicates existing maxilla/mandible data. |

# Replicate Existing Data

1. Acquire data in the Maxilla or Mandible stage.



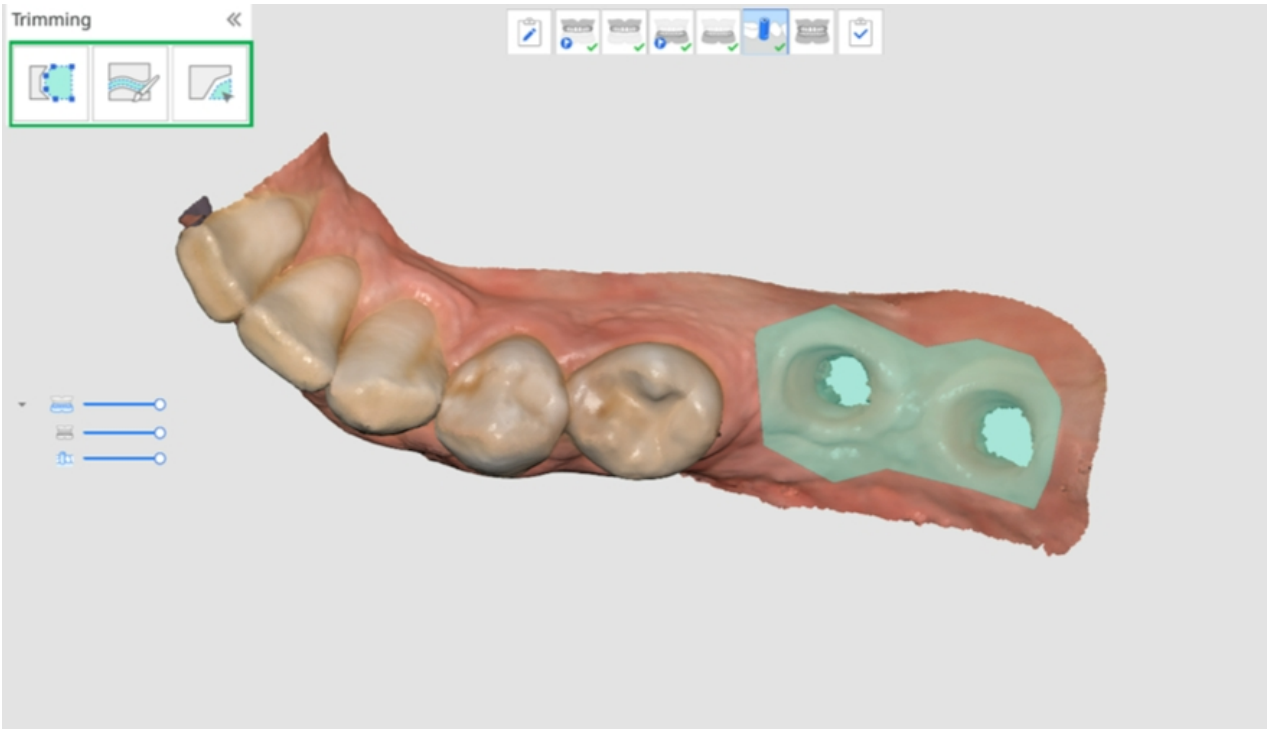
2. Move to the Scan Body stage and click the "Replicate Existing Data" icon at the bottom.

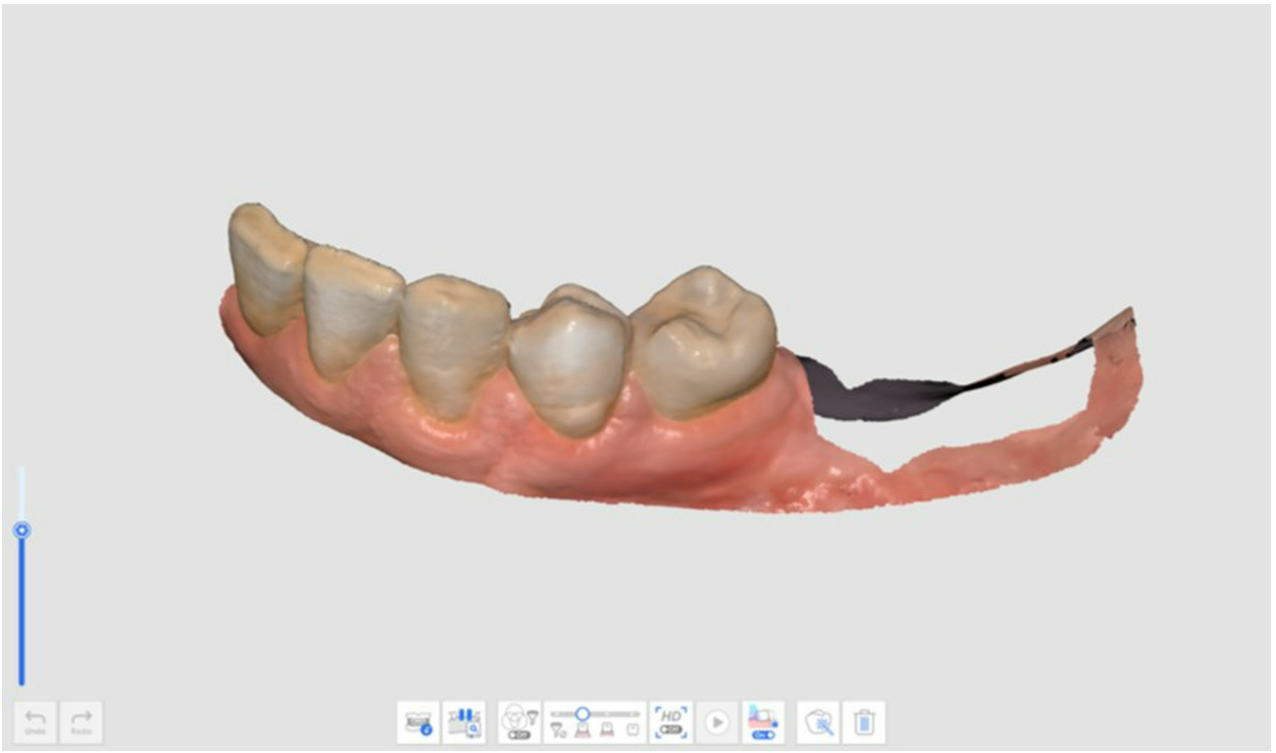


3. The data in the Maxilla or Mandible stage is replicated in the Scan Body stage. The number of frames is updated after copying the data.

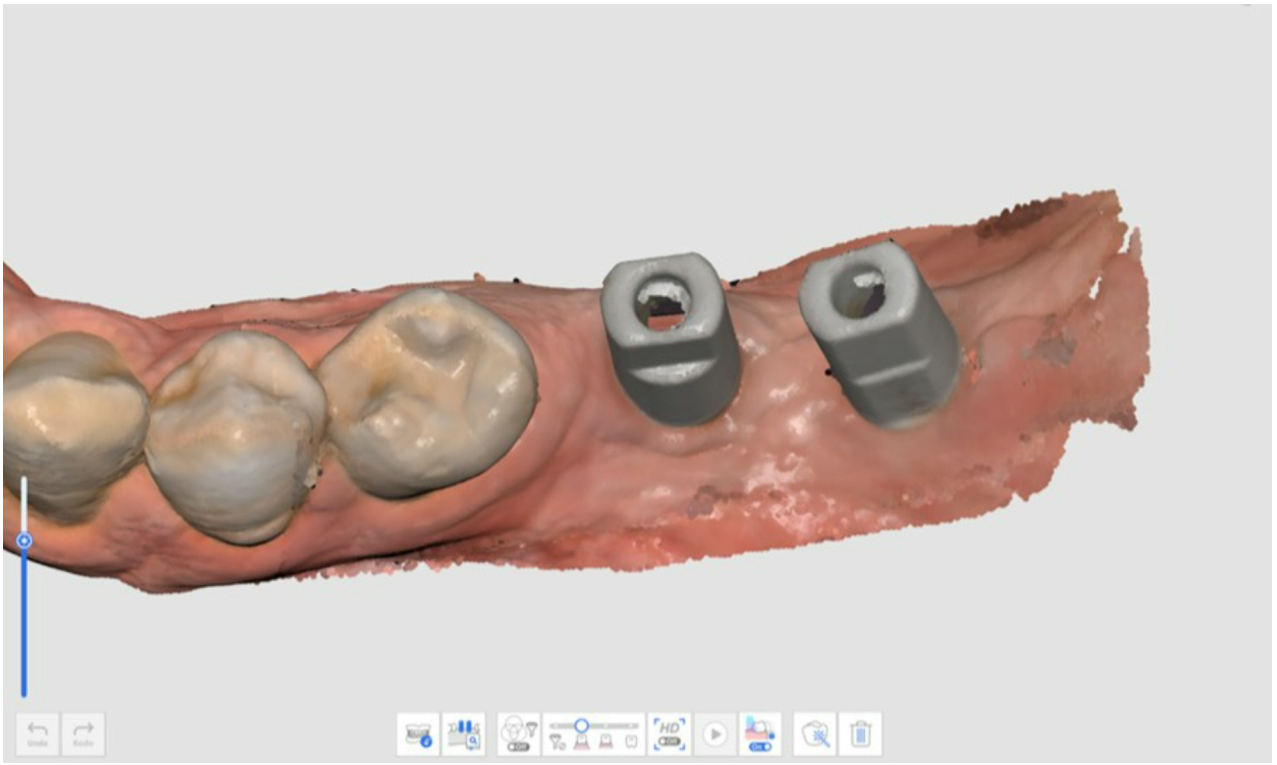


4. You can remove data with trimming tools in the area where the scan bodies will be placed.





5. Mount the scan bodies on the maxilla or mandible and acquire the scan body data.



# Edentulous Maxilla/Mandible

🔎**Note**

- The Edentulous Maxilla/Mandible stage appears when Full Denture or Implant Supported Denture is registered in the form information on Medit Link.
- The Edentulous Maxilla/Mandible stage appears instead of the Maxilla/Mandible stage when you add the Denture stage in the Stage Management after running Medit Scan for Clinics from the Arch tab on the Medit Link.

## Edentulous Maxilla Stage

| | |
|---|---|
|  | Acquire a 3D image of the edentulous maxilla. |




## Edentulous Mandible Stage

| | |
|---|---|
|  | Acquire a 3D image of the edentulous mandible. |




# Additional Tools for Edentulous Stage

Please refer to Scan Stage Tools for more information about how to use tools that appear at the bottom of the screen for each stage.

| | | |
|---|---|---|
|  | Relined Denture Scan | Scan the fitting surface of the relined denture, which will be utilized as an edentulous scan. This helps reproduce the edentulous environment for the optimal denture manufacturing process. |

# Maxillary/Mandibular Denture

> 🔎**Note**
>
> The Maxillary/Mandibular Denture stage appears when the Medit Link form is registered as a Full Denture or Implant Supported Denture.
> When running Medit Scan for Clinics after selecting Arch in Medit Link, you can add the Maxillary/Mandibular Denture stage to the workflow from Stage Management.

## Maxillary Denture Stage

| | |
|---|---|
|  | Acquire a 3D image of the maxillary denture. |



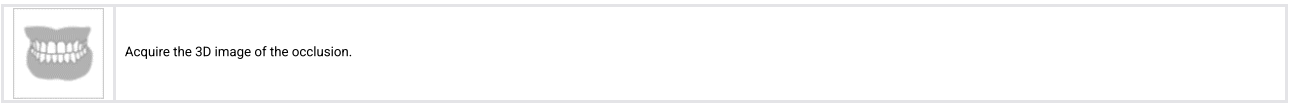

## Mandibular Denture Stage

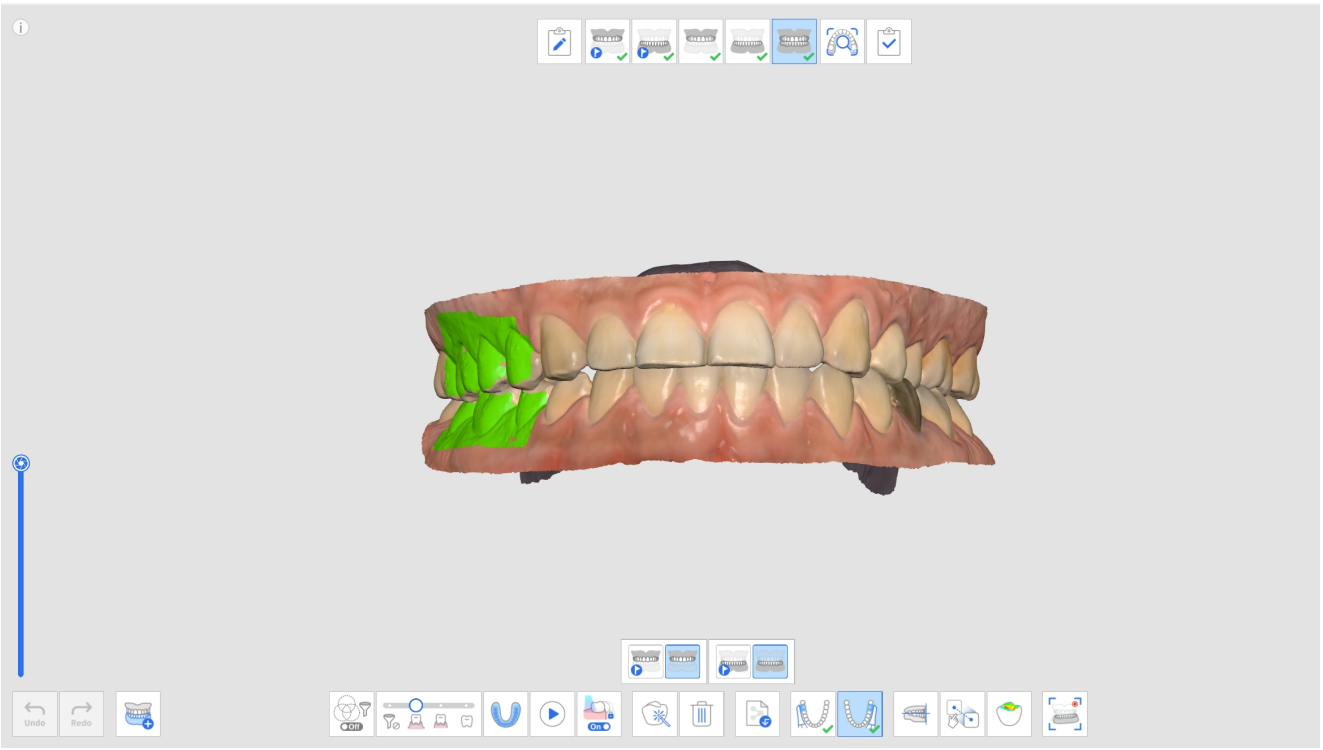
| | |
|---|---|
|  | Acquire a 3D image of the mandibular denture. |


Undo
Redo
On
HD
Off
On

# Occlusion

## Occlusion Stage

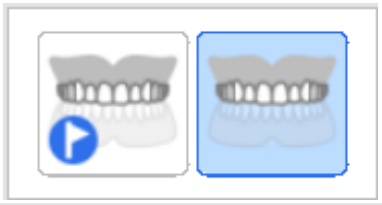


## Additional Tools for Occlusion Stage

Please refer to Scan Stage Tools for more information about how to use tools that appear at the bottom of the screen for each stage.

| | | |
|---|---|---|
|  | Multi Occlusion | Reproduce various types of occlusion scan data and alignment.<br>Only available on Occlusion scan stage. |

| | | |
|---|---|---|
|  | Bite Impression Scan | Acquire 3D images of the bite impression. Then, align the maxilla and the mandible. |
|  | Occlusion Target for Maxilla | Choose between the pre-operation maxilla and maxilla data for occlusion alignment. |
|  | Occlusion Target for Mandible | Choose between the pre-operation mandible and mandible data for occlusion alignment. |
|  | First Occlusion | Acquire a first scan data for occlusion alignment. |
|  | Second Occlusion | Acquire a second scan data for occlusion alignment. The second occlusion is often acquired on the opposite side of the first occlusion. |
|  | Align with Occlusal Plane | Move the data location to the occlusal plane that is compatible with exocad. |
|  | Manual Alignment | Align the scan data manually using user-defined points. |
|  | Detach Maxilla | Detach the maxilla and move it back to the pre-alignment position. |
|  | Detach Mandible | Detach the mandible and move it back to the pre-alignment position. |
|  | Detach Occlusion Data | Detach first and second occlusion data and move them back to the pre-alignment position. |

| | | |
|---|---|---|
|  | Detach All | Detach all data and move it back to the pre-alignment position. |
|  | Mandibular Movement | Record and simulate patients' actual mandibular movement when occlusion is aligned. |

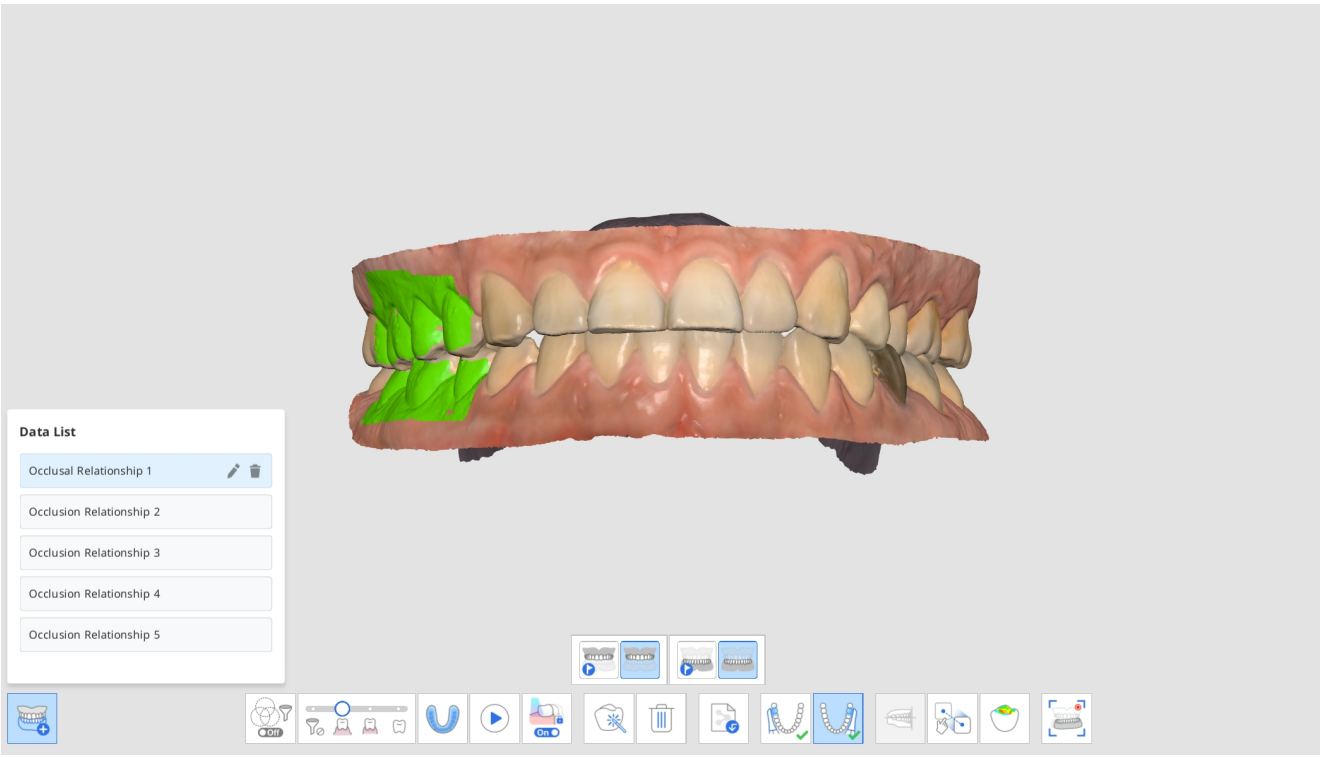
# Multi Occlusion

The Multi Occlusion Group function in the occlusion scan stage can reproduce various occlusion scan data and alignments. Multiple occlusion patterns can be acquired in patients with large or irregular tooth movements. Various occlusions can be created and managed in the case, such as centric relation for the edentulous patient, open bite for the production of a mouthpiece, protrusive occlusion for the production of snoring prevention appliance, and centric occlusion for patient treatment in clinics.

The "Multi Occlusion Management" dialog enables you to conduct the following functions:

- Add Occlusion Group
- Delete Occlusion Group
- Change Name

You can create up to 5 occlusion groups, and the scanned data for the selected occlusion group is displayed on the screen. You can freely select the target for occlusion in each group.



> 🔎**Note**
>
> Since scan data of the same maxilla and mandible is reproduced according to the alignment of each occlusion group, this function is not available if scan data of different maxilla and mandible is required.

1. Acquire maxillary and mandibular data in the Maxila and Mandible stages.
2. Move to the Occlusion stage.



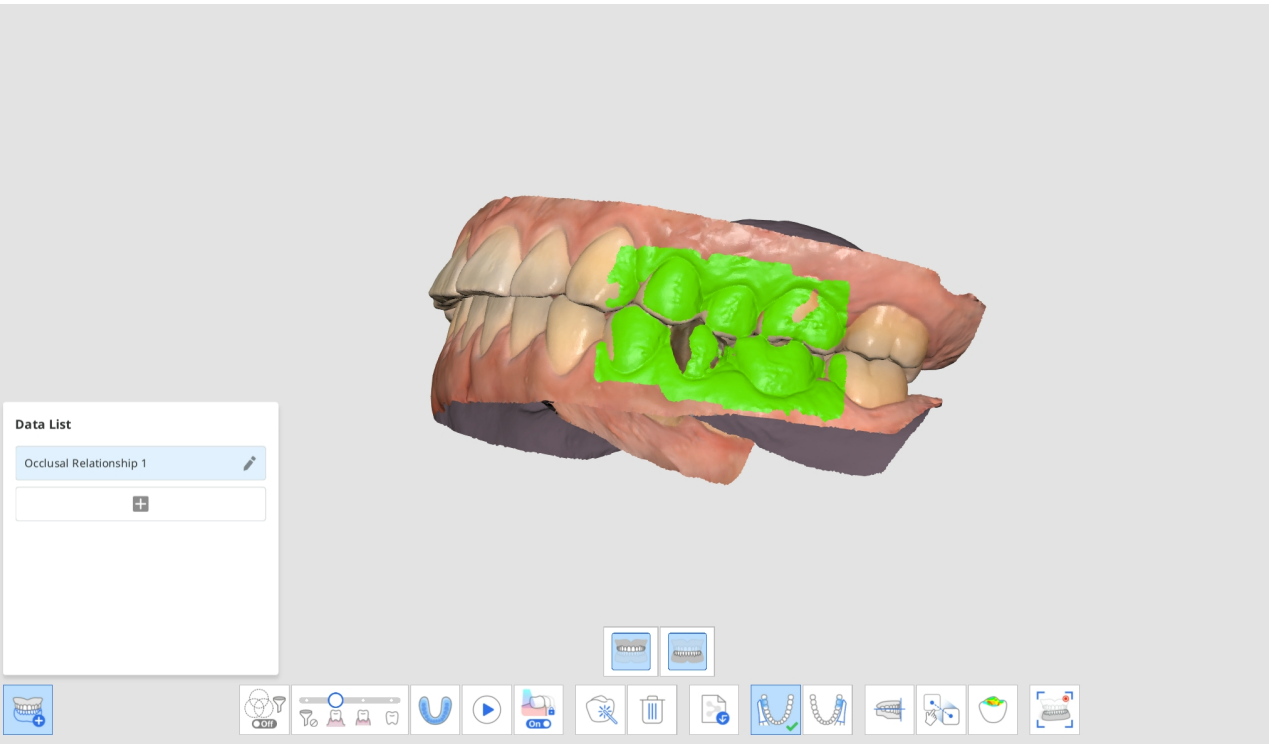
3. Click the "Multi Occlusion Group" icon at the bottom to open the Data List.

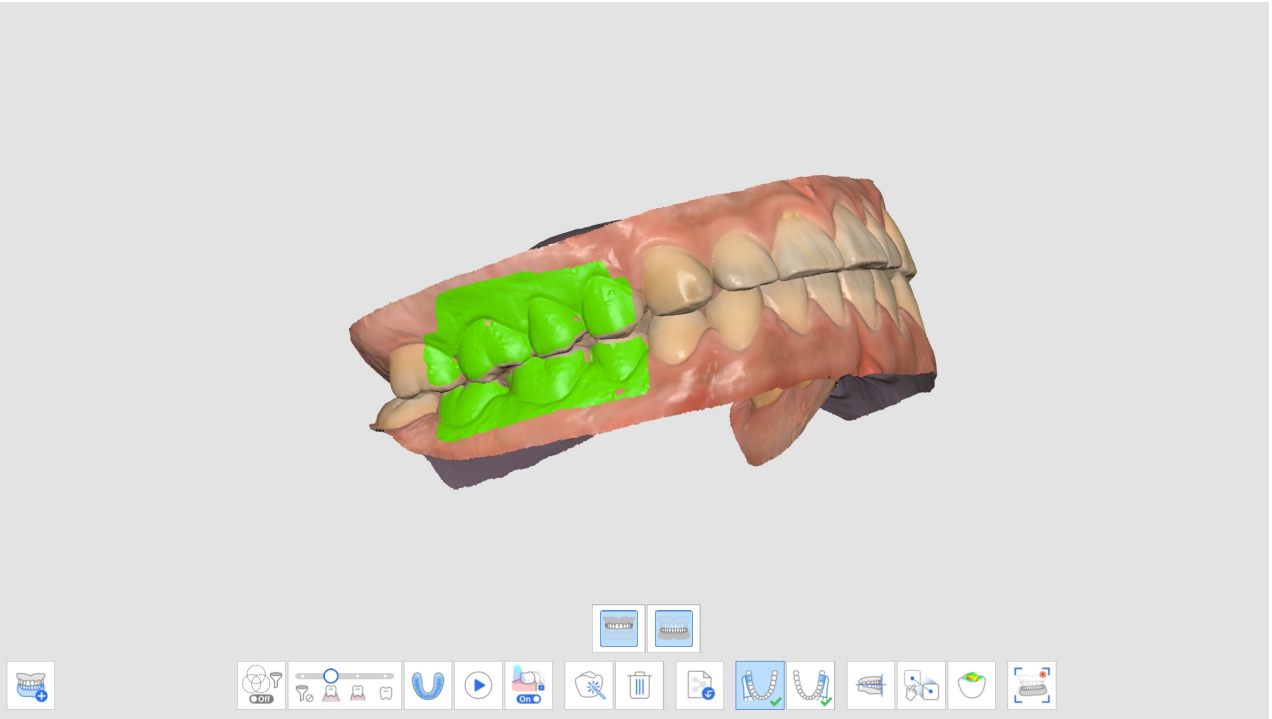


4. The existing occlusion scan data will be assigned as Occlusal Relationship 1. You can add, delete, or rename the occlusion groups in the Data List.

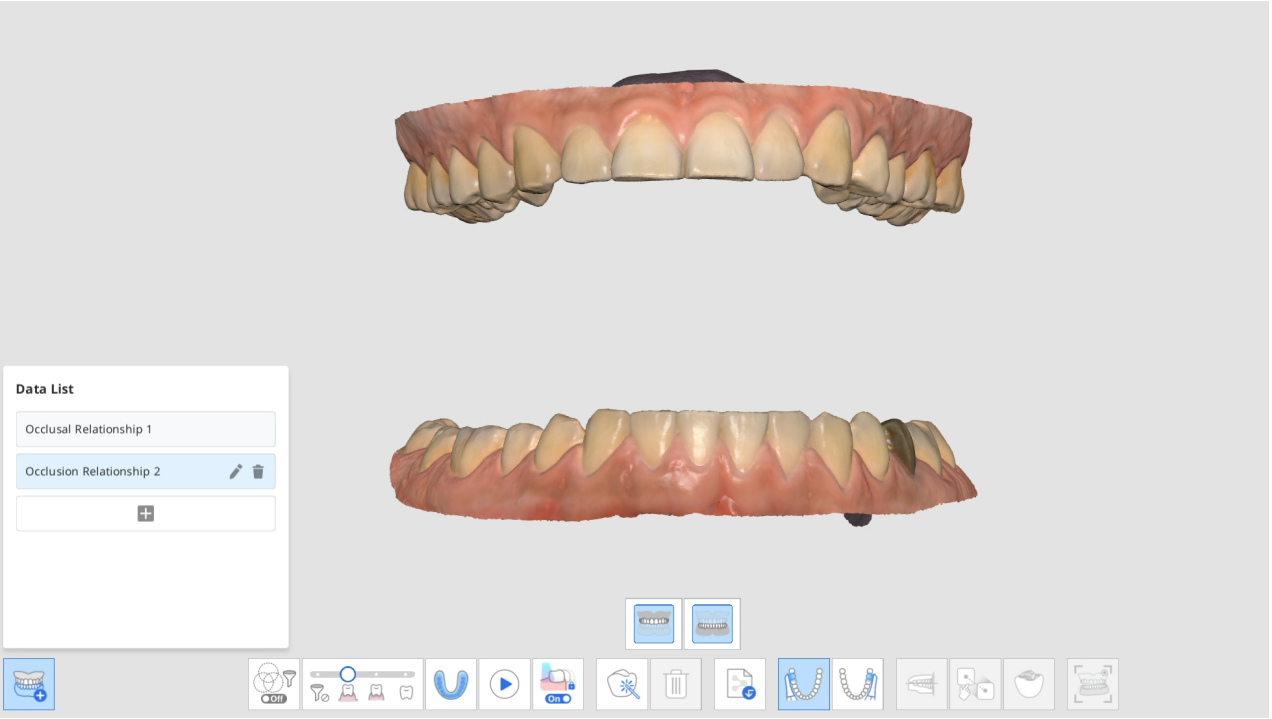



5. Perform the first and second occlusion scans, and align the scan data of the maxilla, mandible, and occlusion.

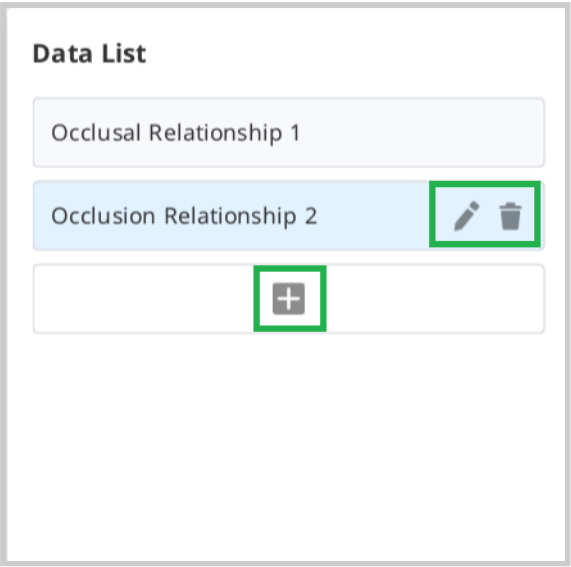




6. Click "Add" to create a new occlusion group.
7. Enter the first occlusion scan after the new occlusion group is created.




8. Perform the new occlusion scans, and align the scan data of the maxilla, mandible, and occlusion.
9. You can create up to 5 occlusion groups.
10. In the Data List dialog, you can create a new group, change the names of the created groups, and delete groups.



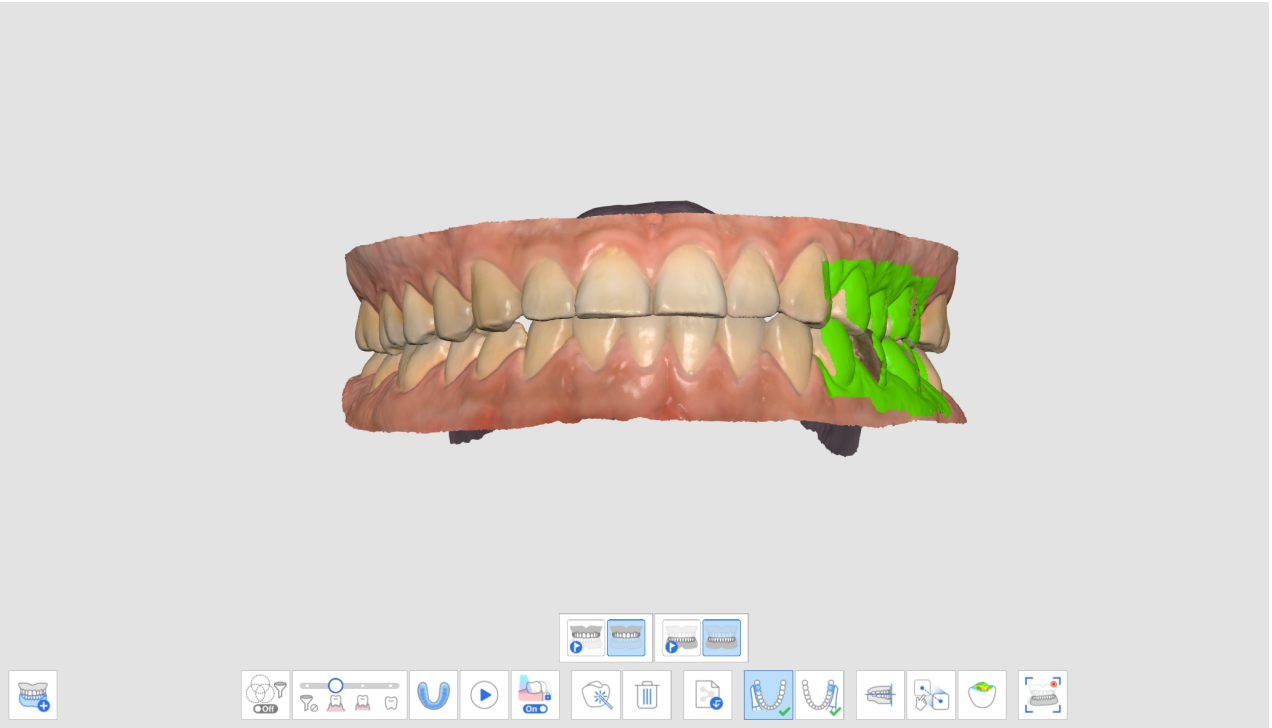

11. Scan data of various occlusion groups and alignment can be checked by using the "Multi Occlusion Group" function in Overview.



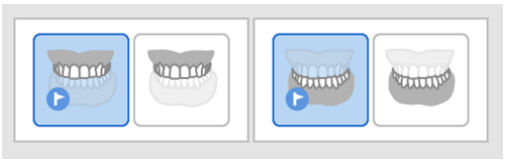
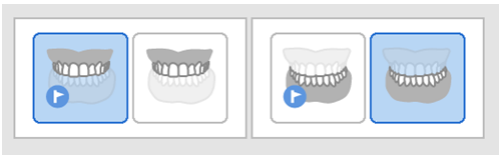
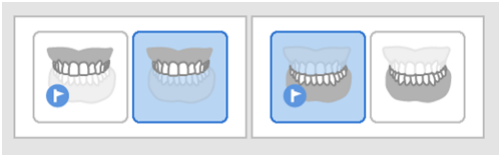
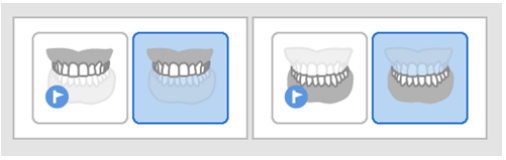
## Occlusion Target for Maxilla/Mandible

You can select an occlusion target between pre-op data and prepared data for both the maxilla and mandible.

1. Acquire maxillary/mandibular pre-op and maxillary/mandibular data in the Pre-Op for Maxilla/Mandible and Maxilar/Mandible stages.
2. Move to the Occlusion stage. You will see the four icons to select the occlusion target for the maxilla and mandible.



3. Choose one of the four pairs for occlusion alignment.

| | |
|---|---|
| Pre-Op for Maxilla / Pre-Op for Mandible |  |
| Pre-Op for Maxilla / Mandible |  |
| Maxilla / Pre-Op for Mandible |  |
| Maxilla / Mandible |  |

# Align with Occlusal Plane

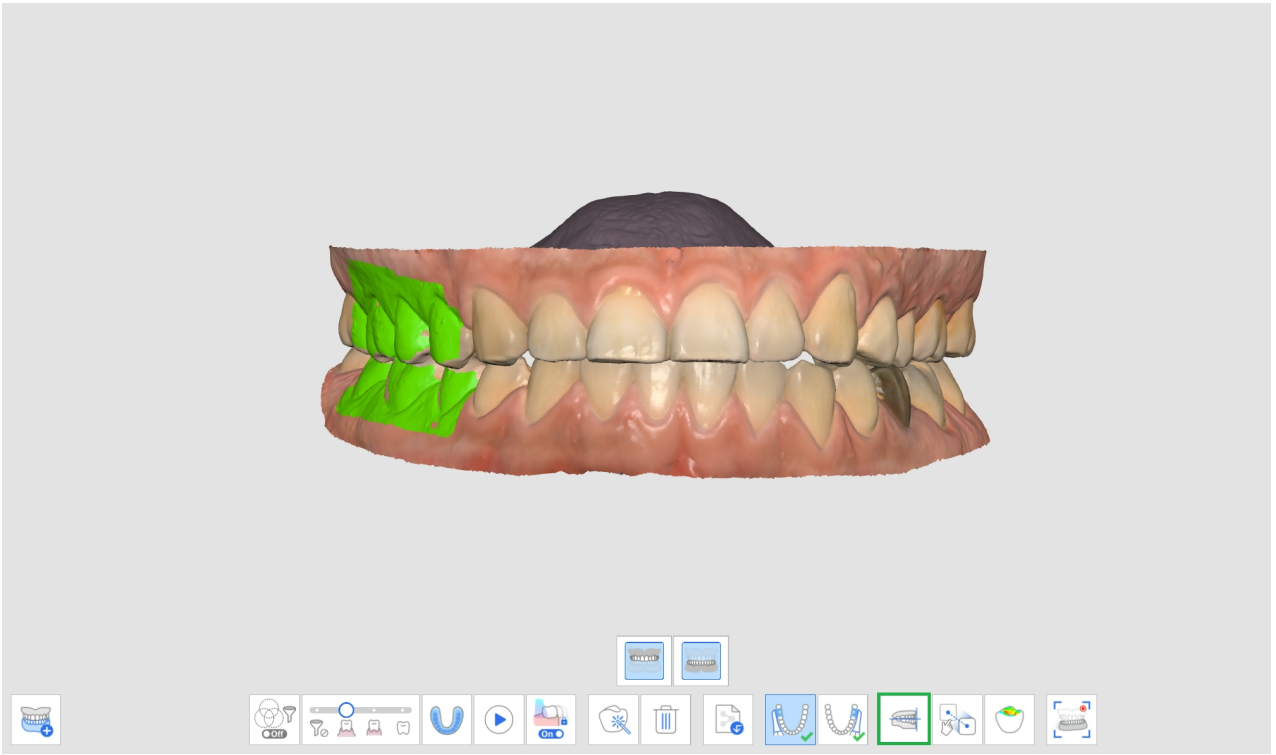
You can adjust the position of scanned data on the occlusal plane in Medit Scan for Clinics and make it compatible with the virtual articulator in exocad.

The following tools are provided for the Align with Occlusion Plane feature.

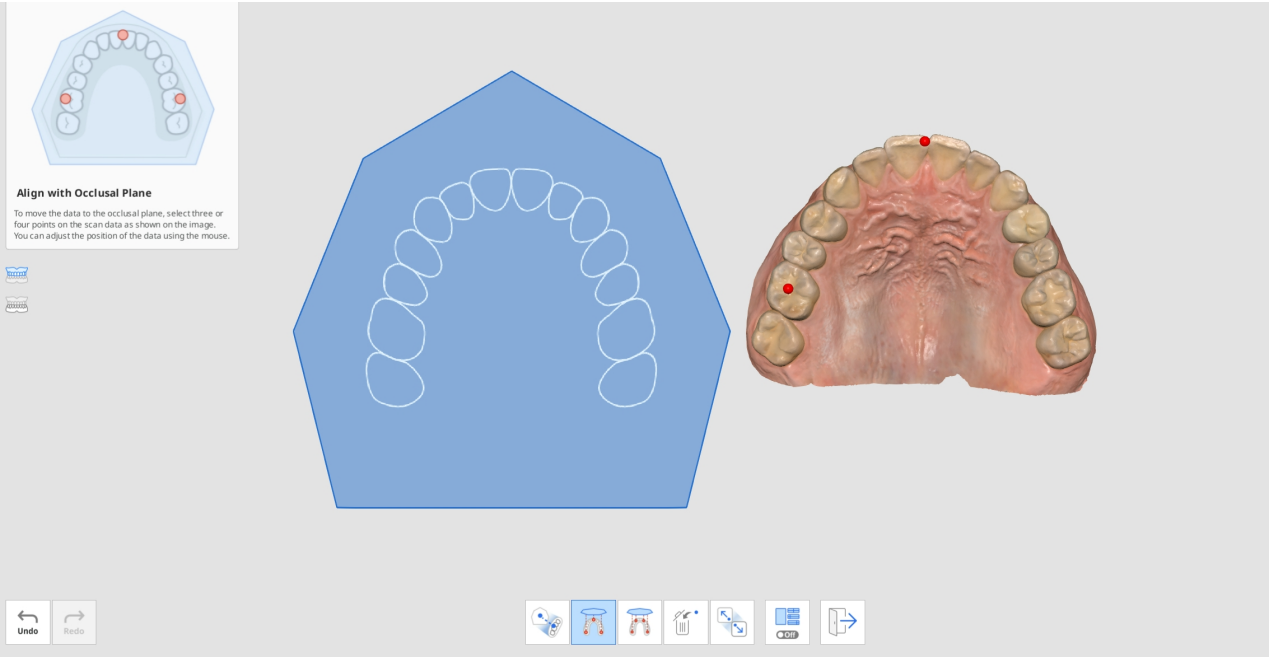
| | | |
|---|---|---|
|  | Half Arch Alignment | Align the half arch with the occlusal plane by setting three matching points on the data and the plane. |

| | | |
|---|---|---|
|  | Align With Occlusal Plane By Three Points | Select three points on the maxilla or mandible to align with the occlusal plane. |
|  | Align With Occlusal Plane By Four Points | Select four points on the maxilla or mandible to align with the occlusal plane. It is beneficial when there are no anterior teeth. |
|  | Delete Marker Point | Remove points that were selected for alignment. |
|  | Detach Data | Separate the aligned data and move it to the original position. |
|   | Multi-View | 3D scan data can be viewed from four sides. |
|  | Exit | Return to the previous step. |

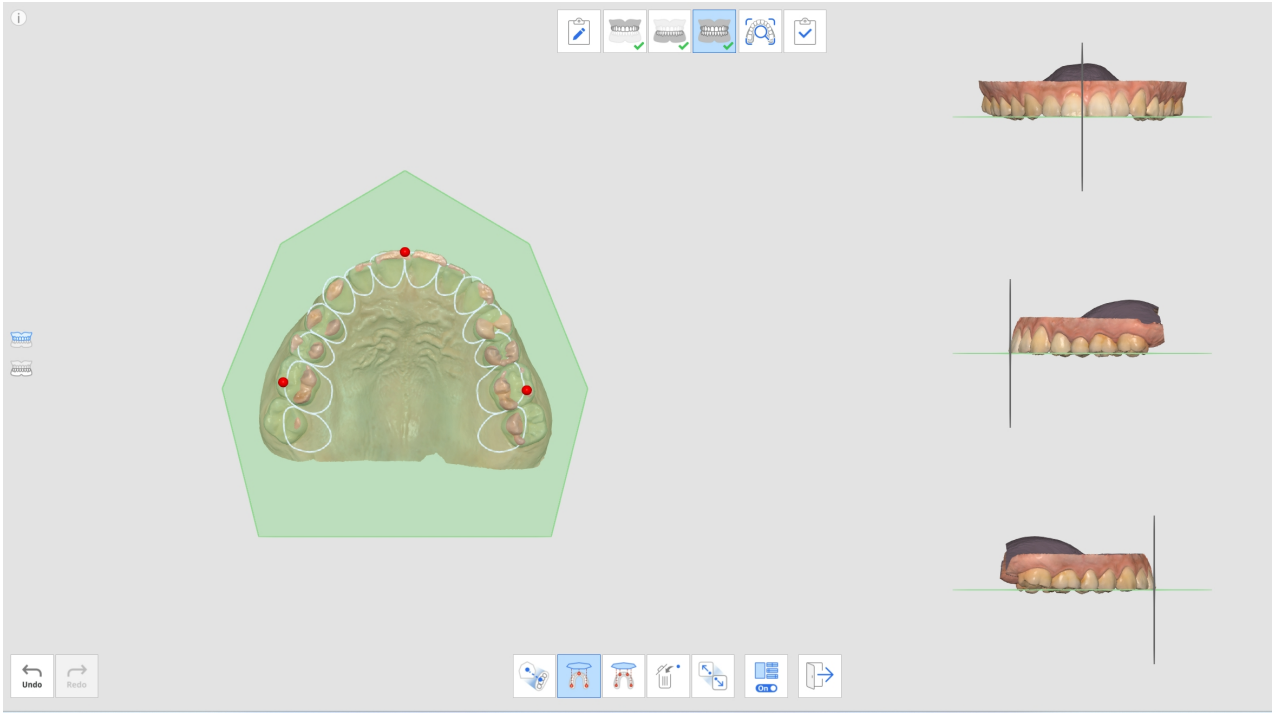
1. Click "Align with Occlusal Plane" after the occlusion alignment is complete.



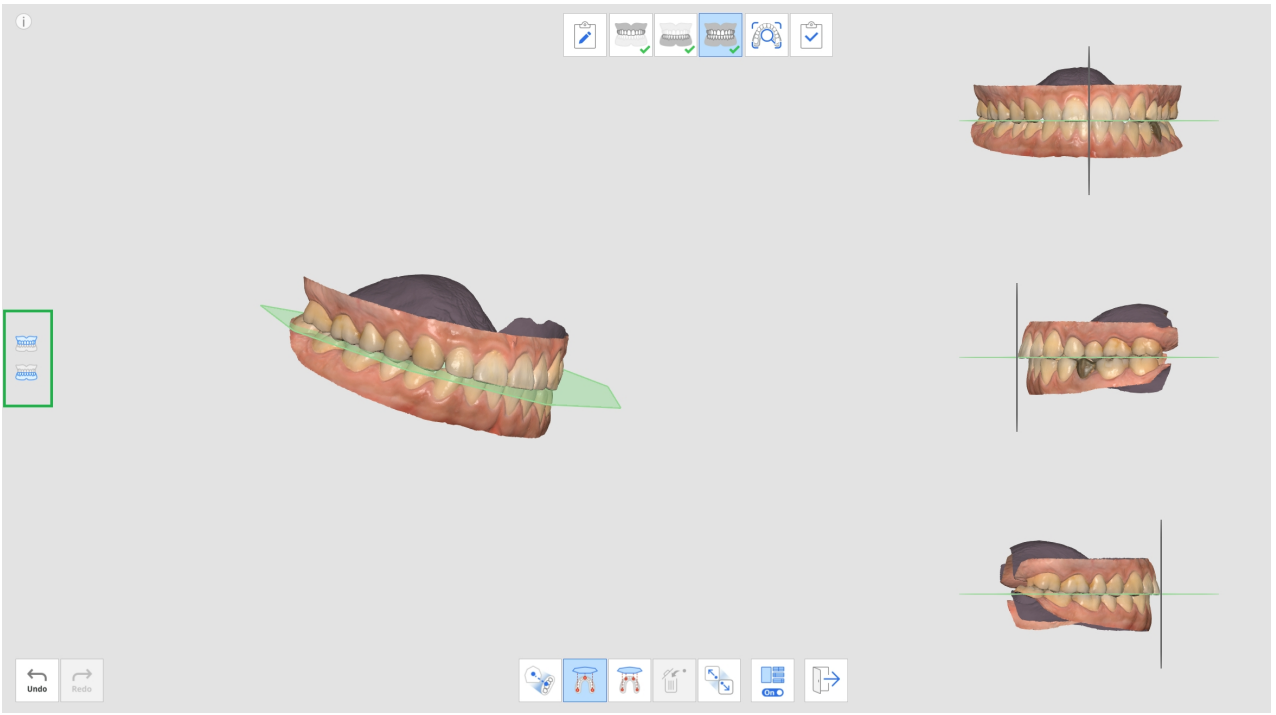
2. Select three or four points on the maxilla or mandible. If there are no anterior teeth, select four points on the corresponding teeth on both sides.



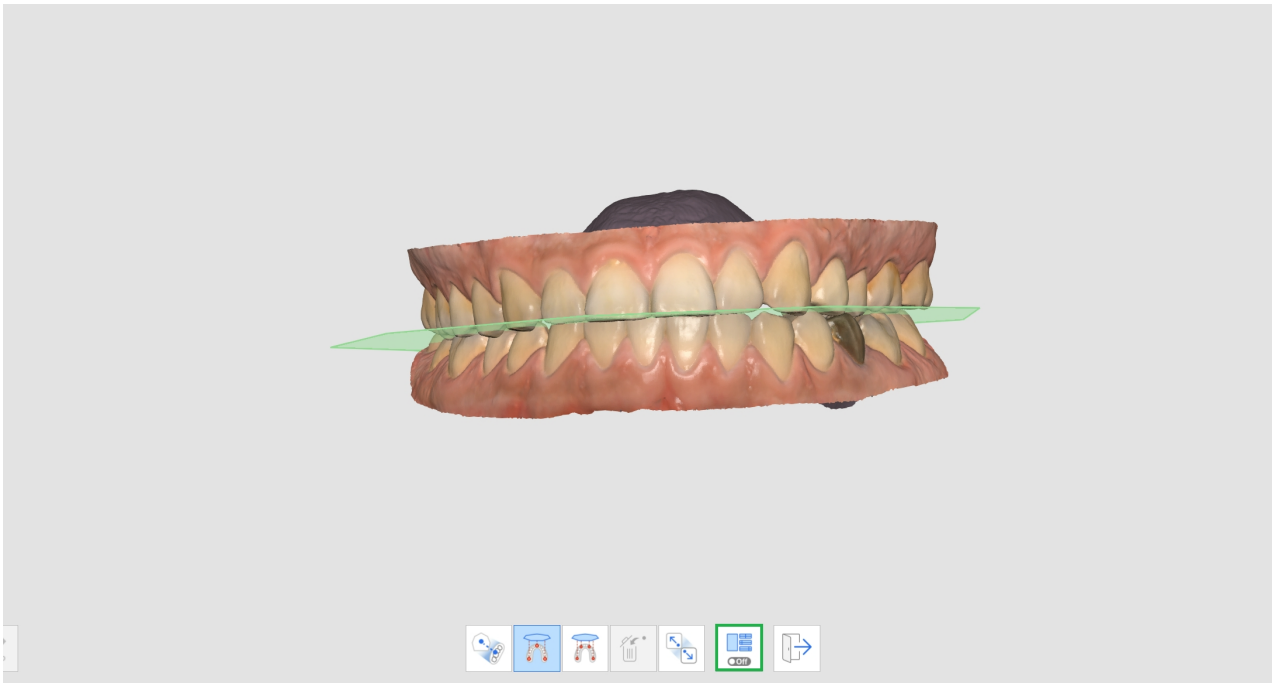

3. Move the arch data on the right side to adjust the position on the occlusal plane. The user can adjust it from different angles.



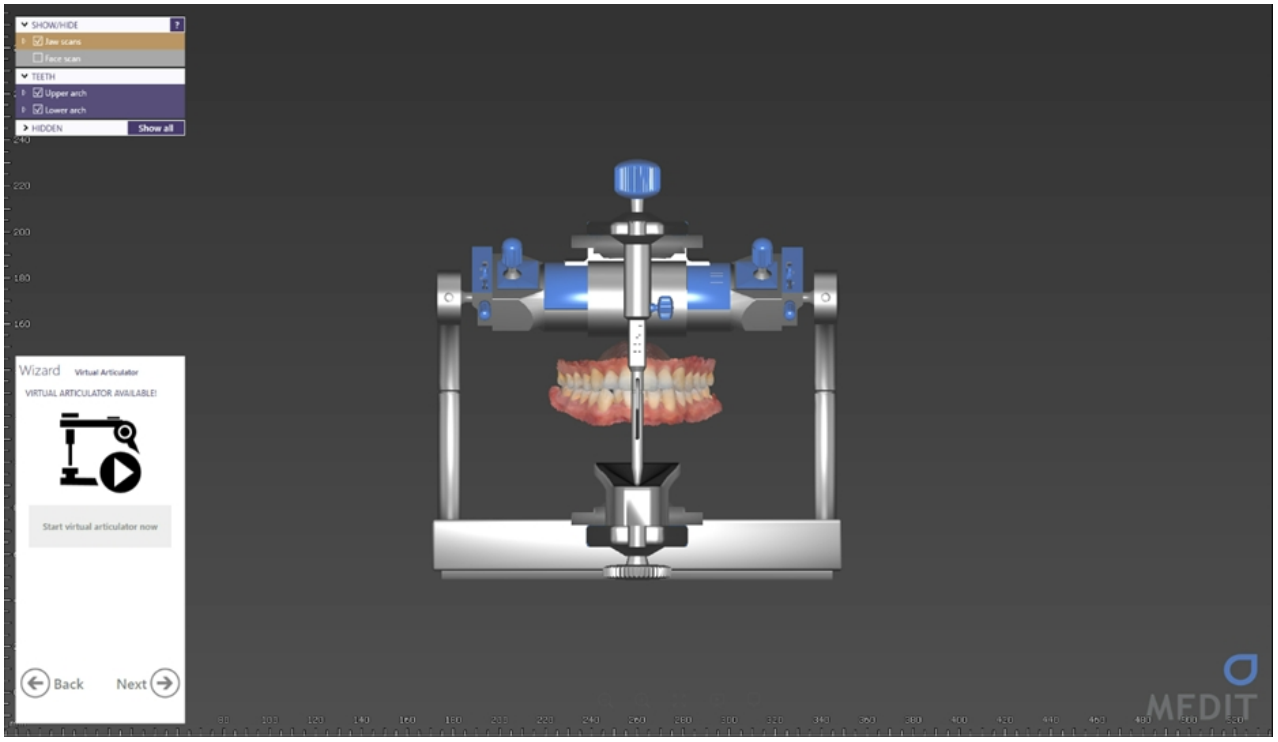

4. Select the maxilla, mandible, or both by using the buttons on the left. This allows the user to see the maxilla and mandible scan data individually or together.




5. You can turn on or off the Multi-View feature.



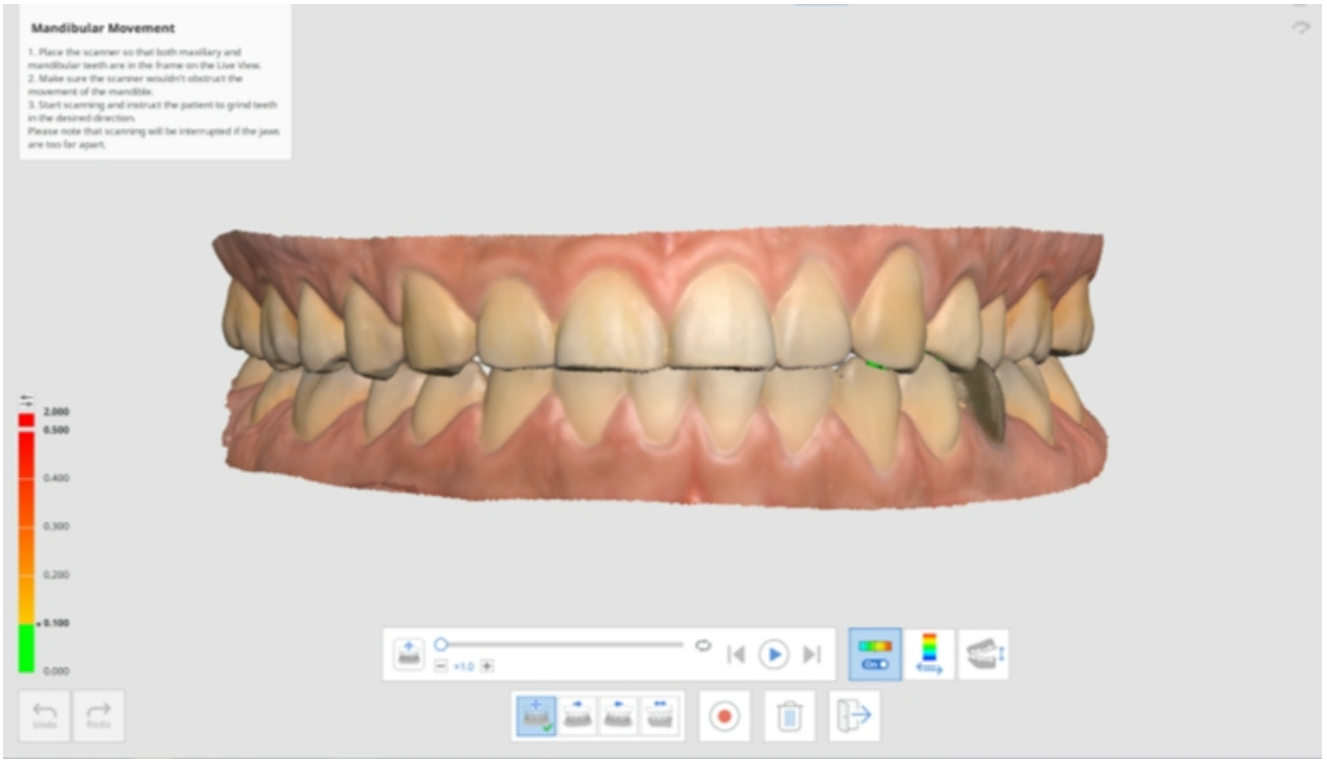
6. When the data is loaded from exocad after completion, the scan data will be positioned at the same location as the virtual articulator.




# Mandibular Movement

To diagnose patients with acquired scan data, establish treatment plans, and make dental prostheses and devices, the mandible and the maxilla need to be aligned with each other. We have supported our users in aligning the mandibular and maxillary occlusion targets based on the first and the second occlusion data to show the positional relationships. However, it only presents the position of the maxilla and the mandible when they stay still without any motion.

We need to consider not only the center occlusion but also the mandibular movement of the patient caused by the TMJ motions to manufacture more accurate prostheses and devices. With this Mandibular Movement feature, you can record the actual movements of the mandible based on the maxillary data and use the simulation data for prosthetic manufacturing.

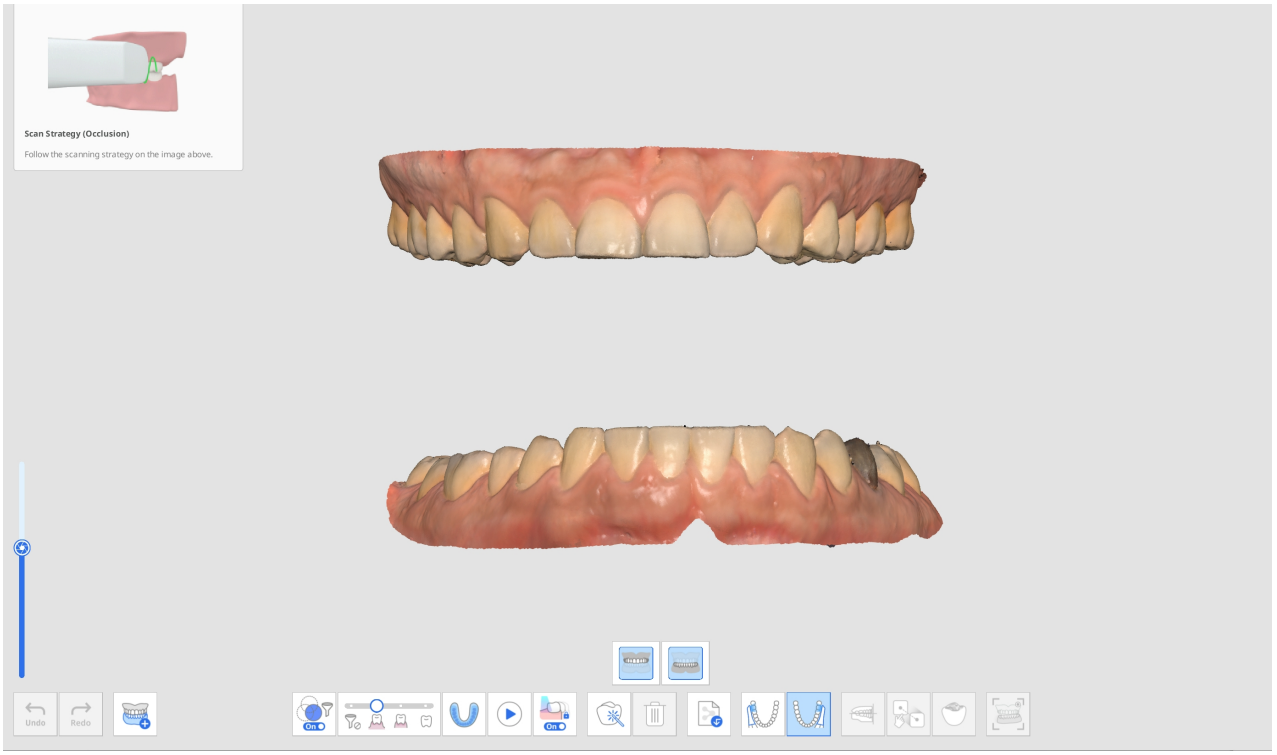



You can make a record of the following movements:

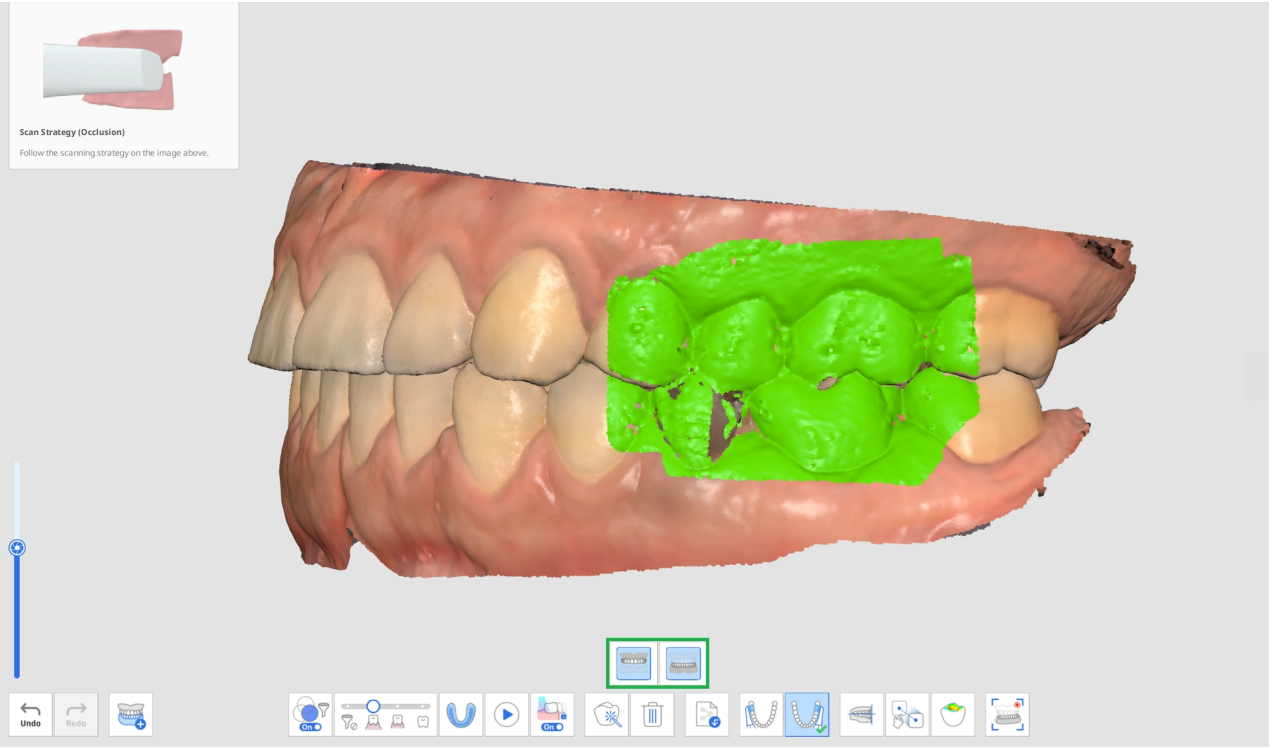
- Free Movement
- Left Lateral Movement
- Right Lateral Movement
- Protrusive Movement

After recording each movement, the mandibular movement can be reproduced by simulation. The color map makes it easy to recognize the interference area of the mandible and maxilla.

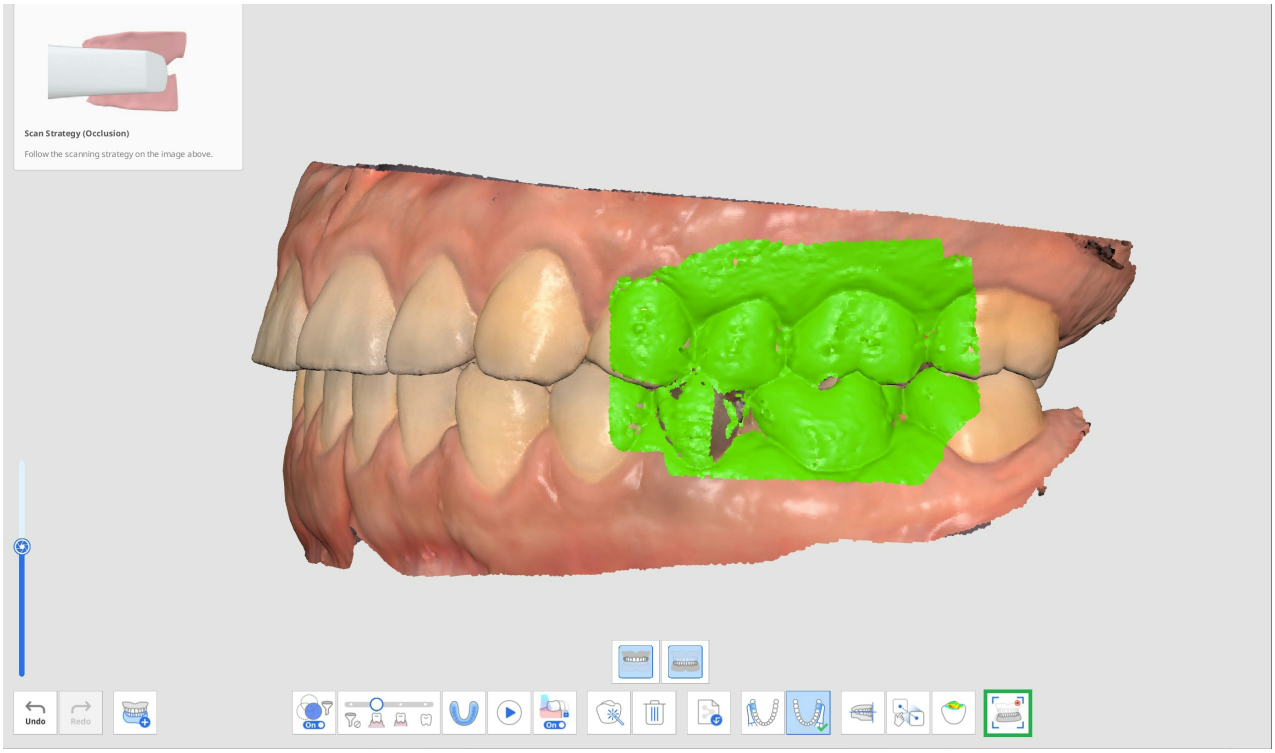
1. Acquire maxillary and mandibular data in the Maxila and Mandible stages.



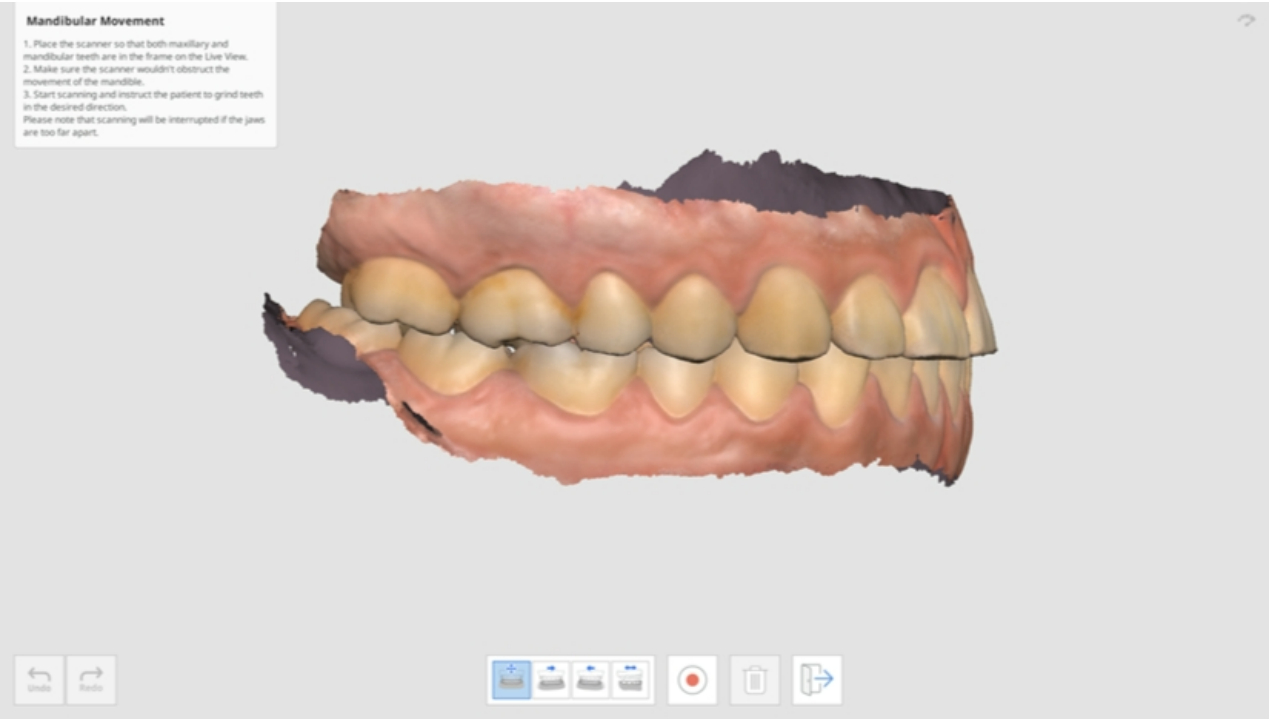

2. Acquire the first (and the second) occlusion scan data in the Occlusion stage and proceed with alignment.



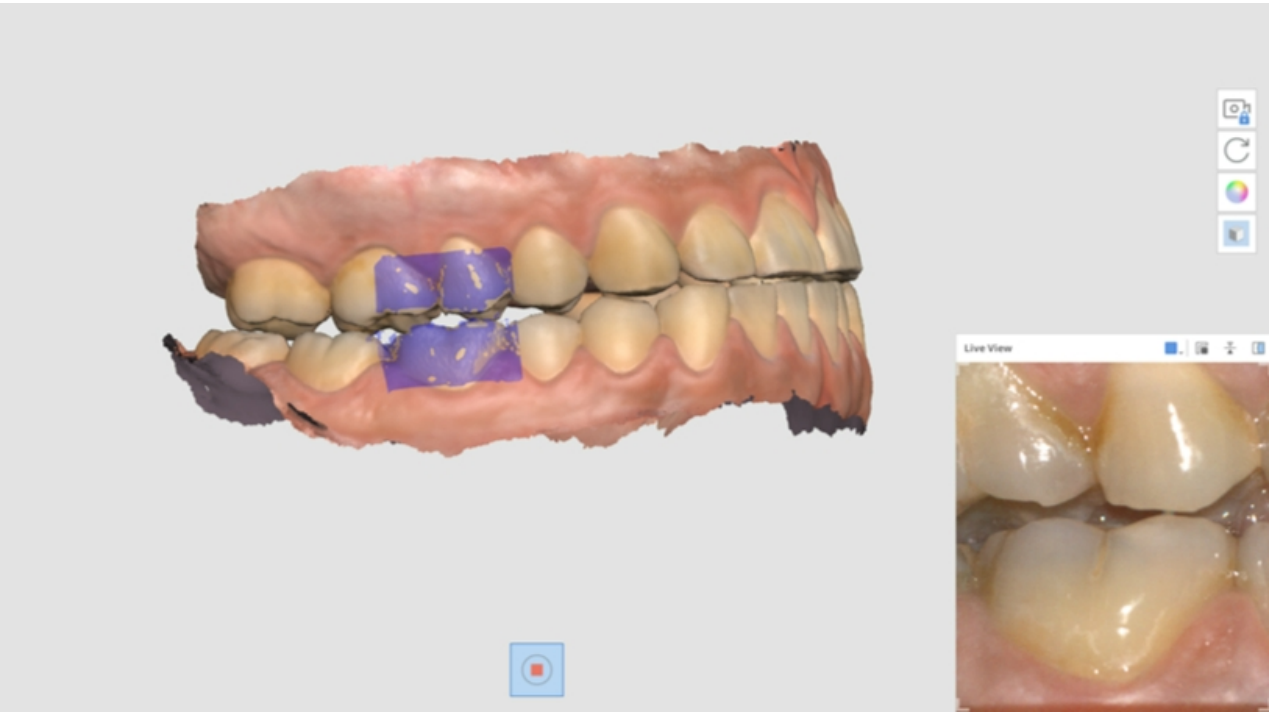

3. Click the "Mandibular Movement" icon at the bottom when activated.



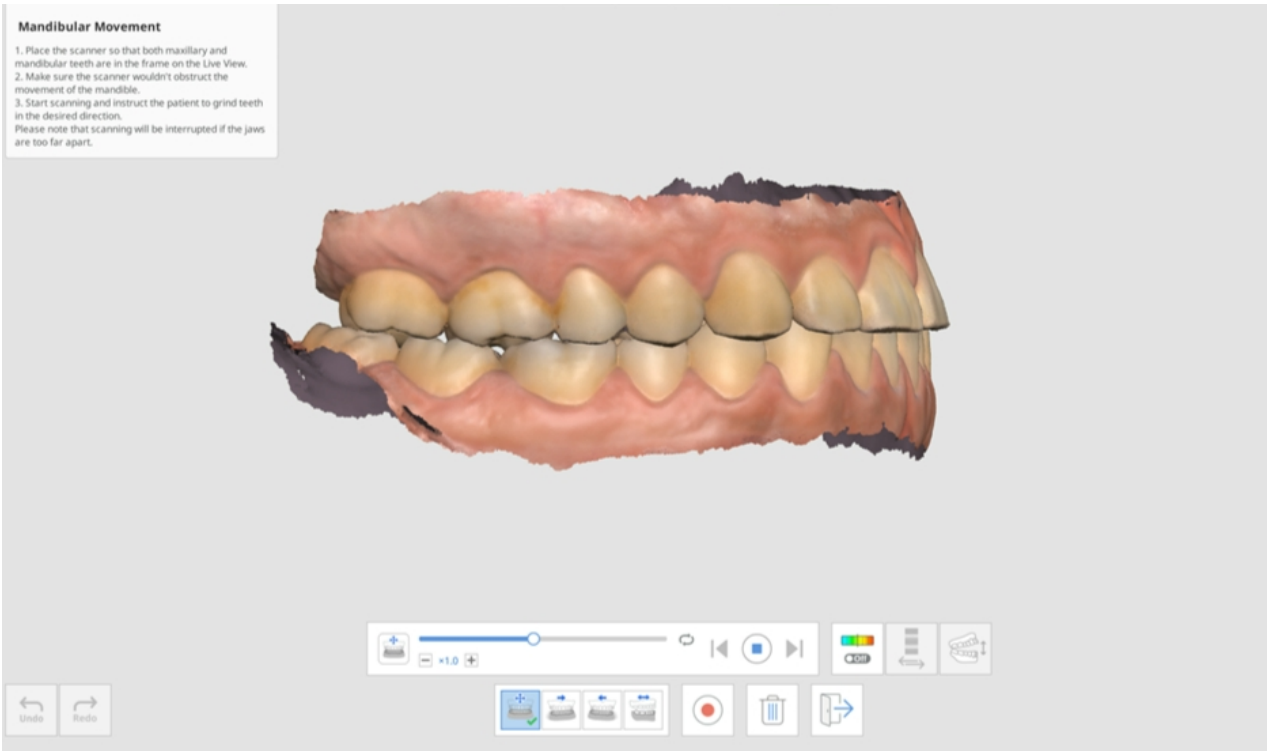

4. Select an icon of desired movement direction at the bottom from Free, Right Lateral, Left Lateral, and Protrusive.



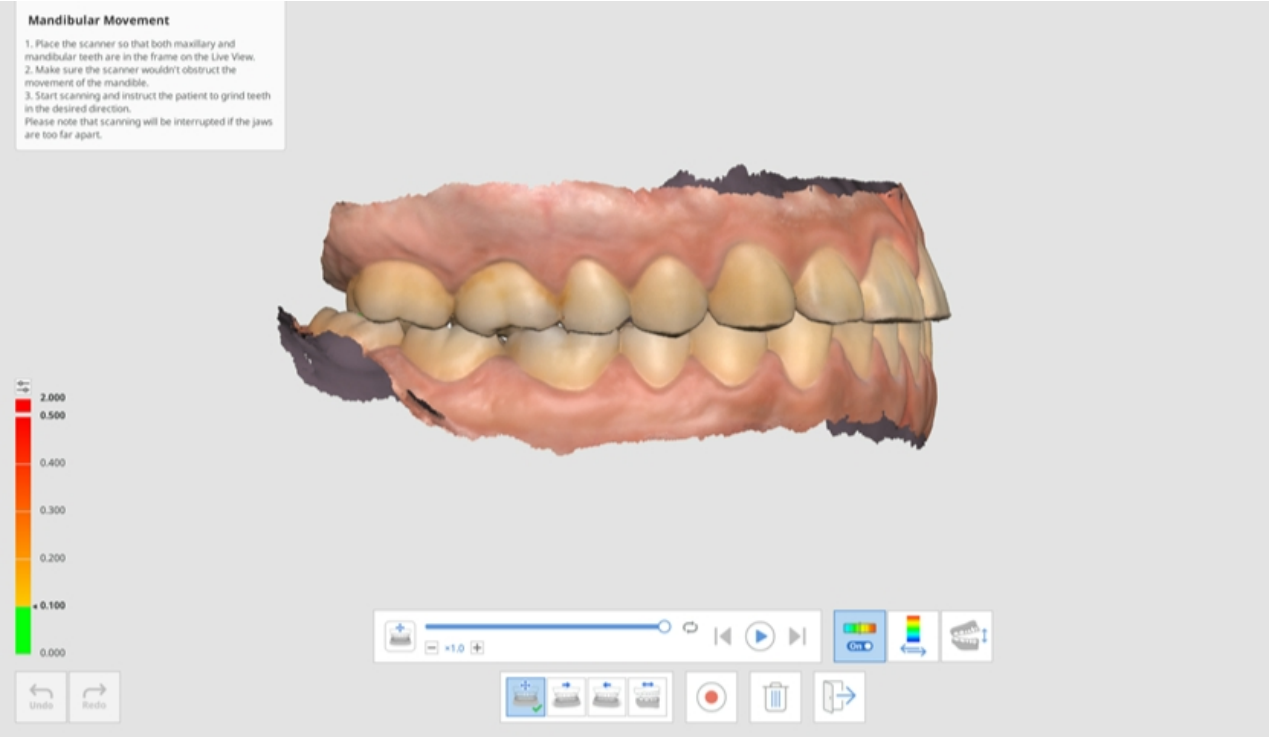

5. Place the scanner tip where the maxillary and mandibular meet while the patient keeps contact between the jaw.



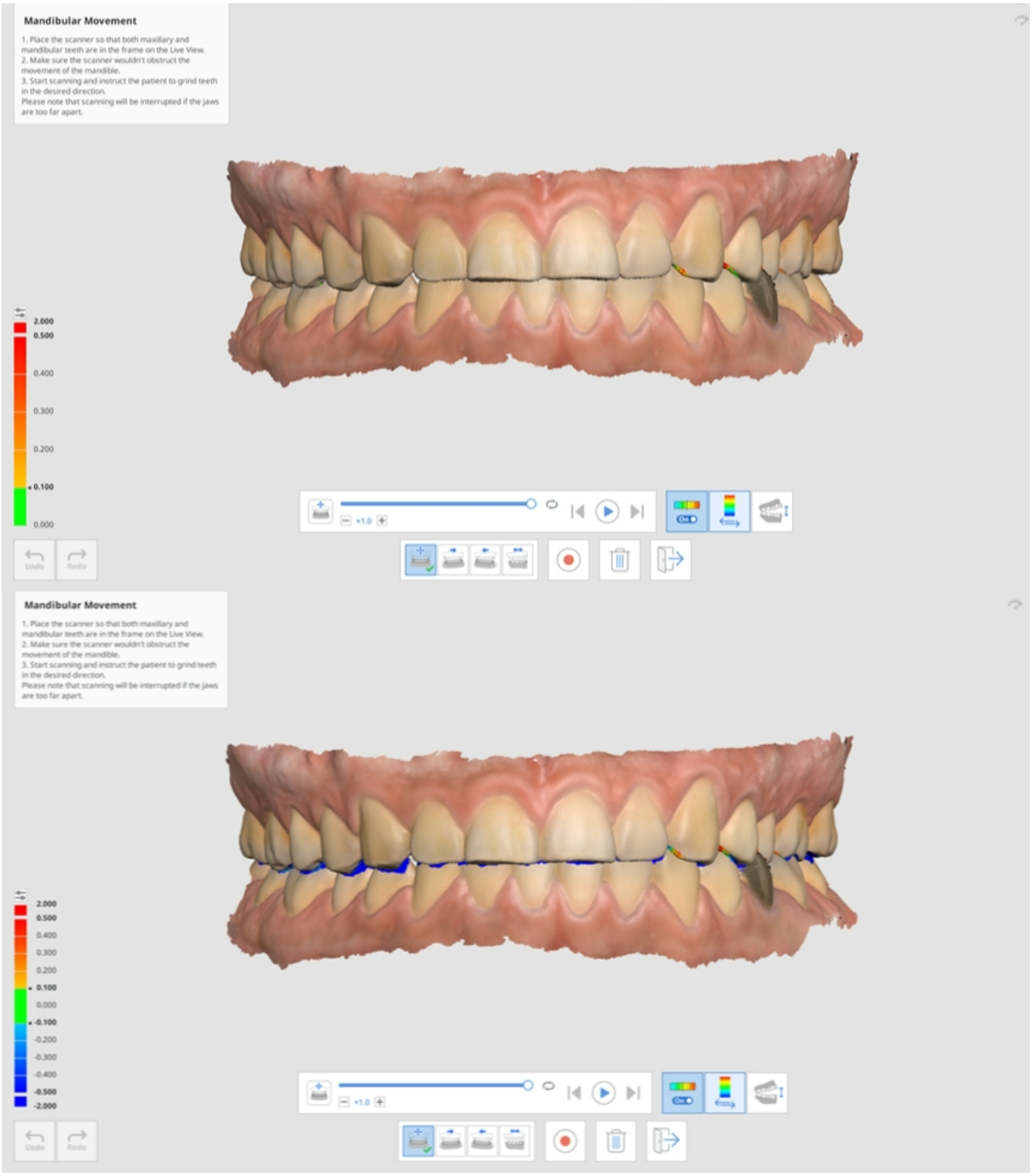

6. The Live View window appears on the screen when the scanner starts recording. Then, instruct the patient to move the mandible according to the selected movement direction. Make sure both the mandibular and maxillary teeth appear on the Live View. Scanning will be interrupted if the jaws are too far apart and the movement is no longer reflected on the screen.
7. The play bar and icons for mandibular movement simulation appear on the screen once you finish recording. You can play the movement recording by clicking the "Start" button. You can also adjust the speed of movement or turn on repeat.



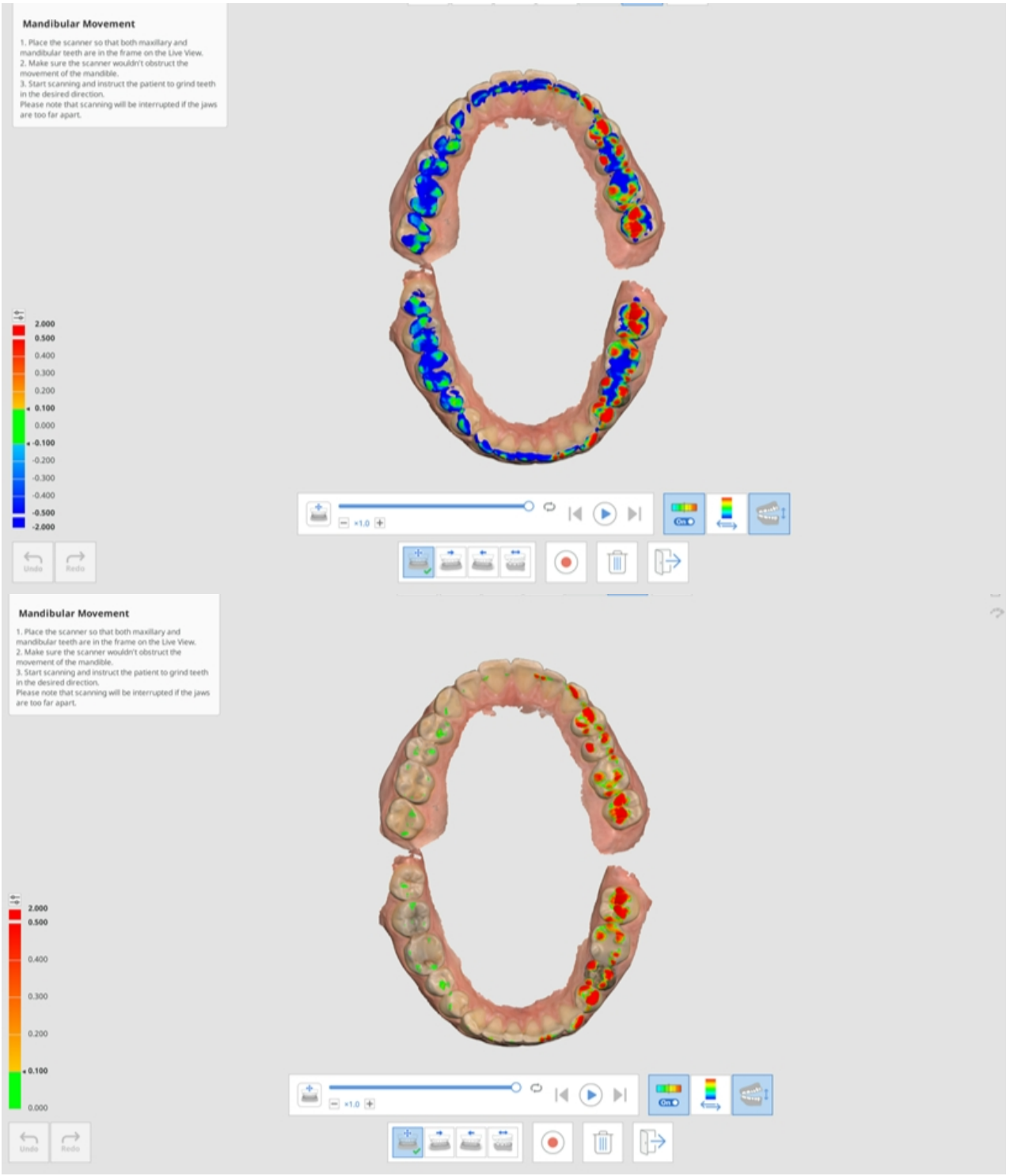

8. Click the "Deviation On/Off" icon to show or hide the interference areas while the mandible moves. Analysis to represent colors may take some time.




9. Click the "Switch Deviation Display Area" icon to display the scale for all data or contact areas only.




10. Click "Switch View" to change the view style between opened and closed jaws.




11. Click "Exit" to return to the Occlusion stage, and the mandibular movement recording will be added to the data tree in Medit Link.

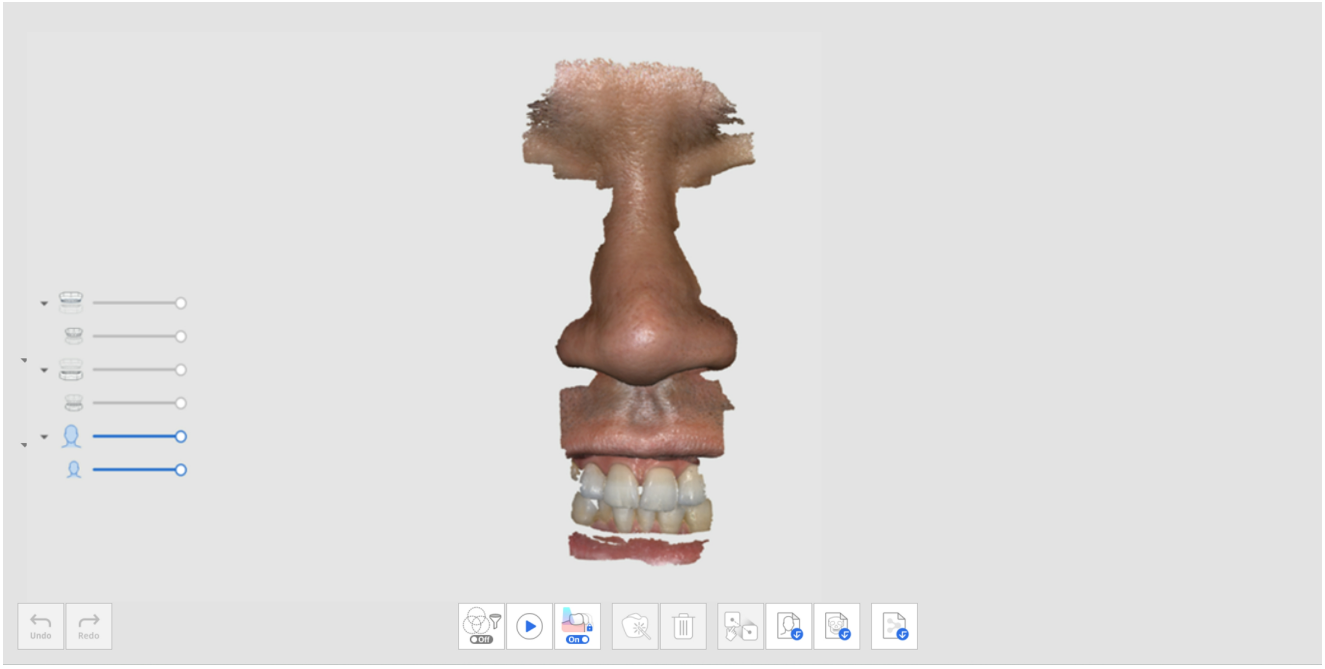


# Face

## Face Stage

> ⚠️**Caution**
>
> Face scans cannot be used for medical purposes such as simulation, diagnosis, or treatment and should only be used as a reference for prosthetic fabrication in a lab.

| | |
|---|---|
|  | Acquire the scan data of teeth, mouth, nose, etc. |



## Additional Tools for Face Stage

Please refer to Scan Stage Tools for more information about how to use tools that appear at the bottom of the screen for each stage.

| | | |
|---|---|---|
|  | Align Face Data | Select data and pick points on each of them for alignment. |

| | | |
|---|---|---|
|  | Import 3D Face Data | Import face data from an external source. |
|  | Import 3D Bone Data | Import 3D face data taken by a CT scan.<br>* DICOM file is not supported. |

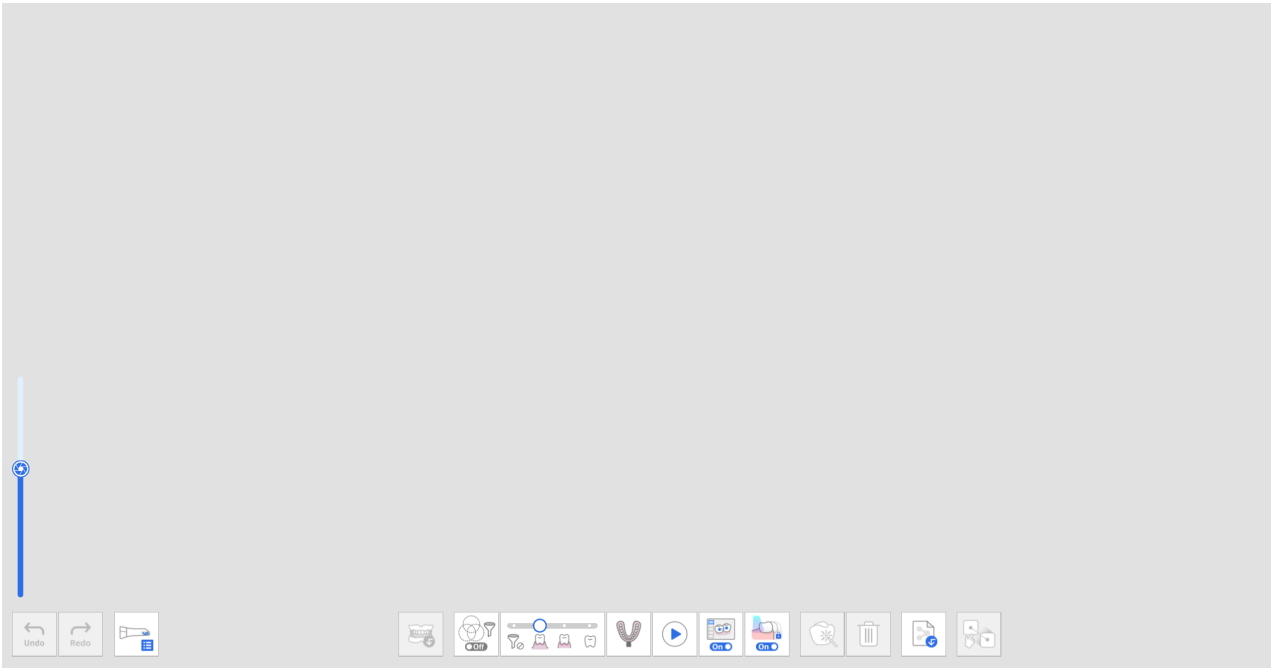
# Additional Data

## Additional Data Stage

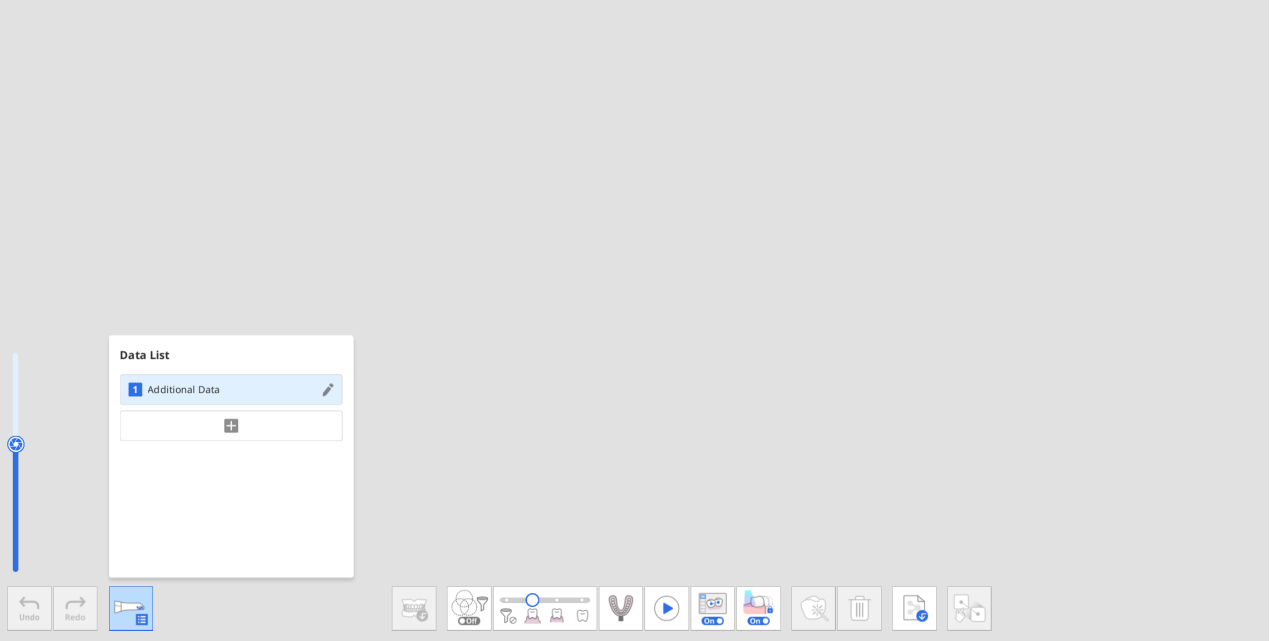
| | |
|---|---|
|  | Acquire any additional data you need for the case. You can scan patients' existing restorations, temporary restorations, etc. |

You can scan the outer surface of the patient's existing prosthesis or temporary prosthesis for the case.

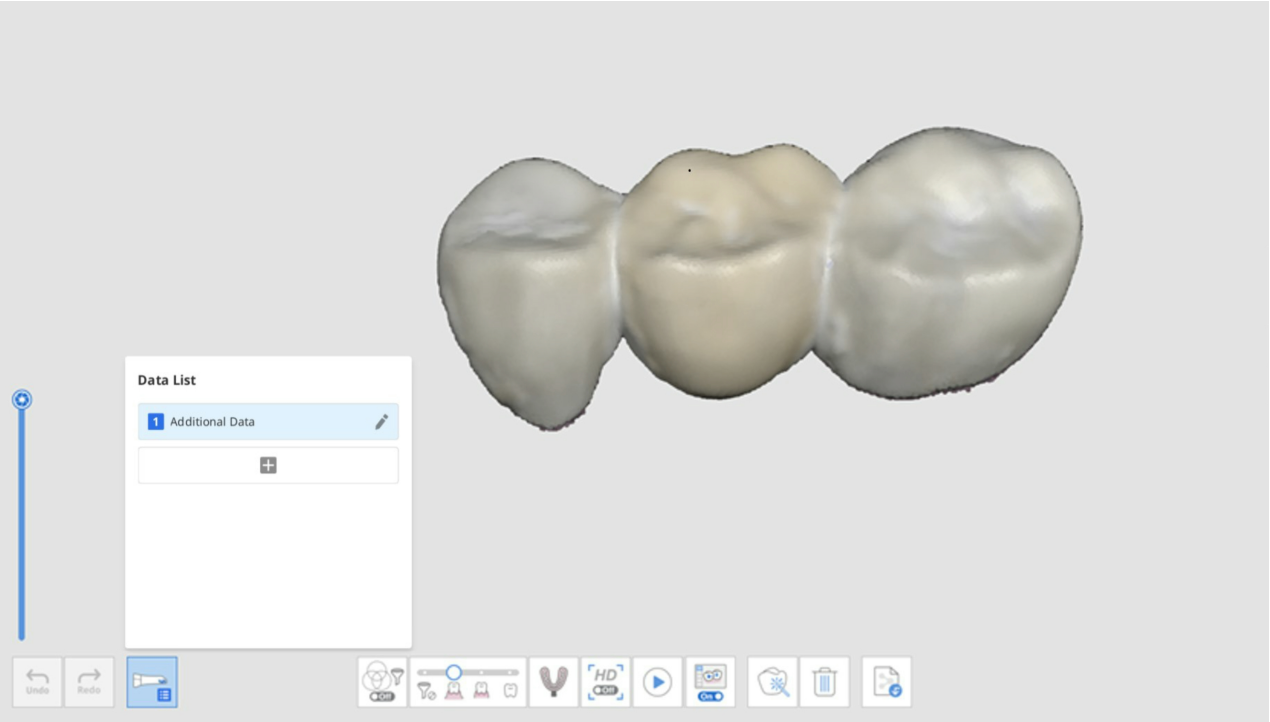
1. Add the Additional Data stage from Stage Management.



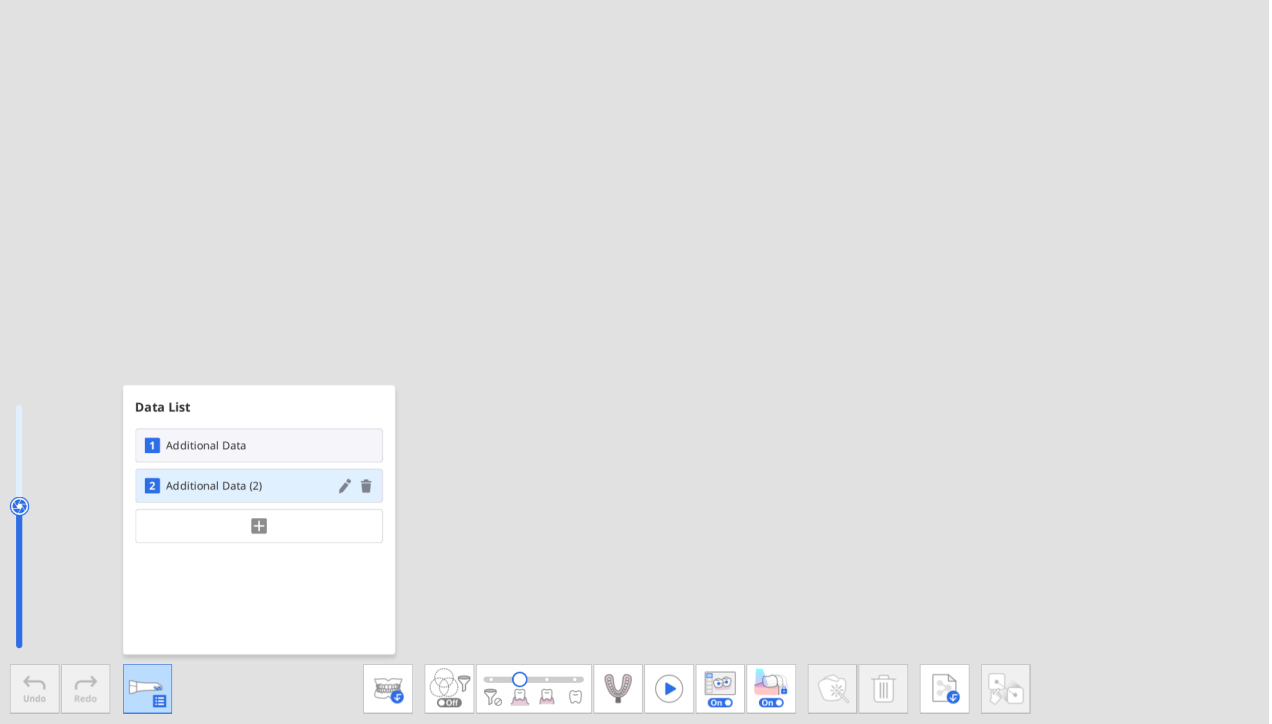
2. Click the "Additional Data Group" icon at the bottom. You can add new data and delete or rename additional data on the list in the Additional Data Management dialog.



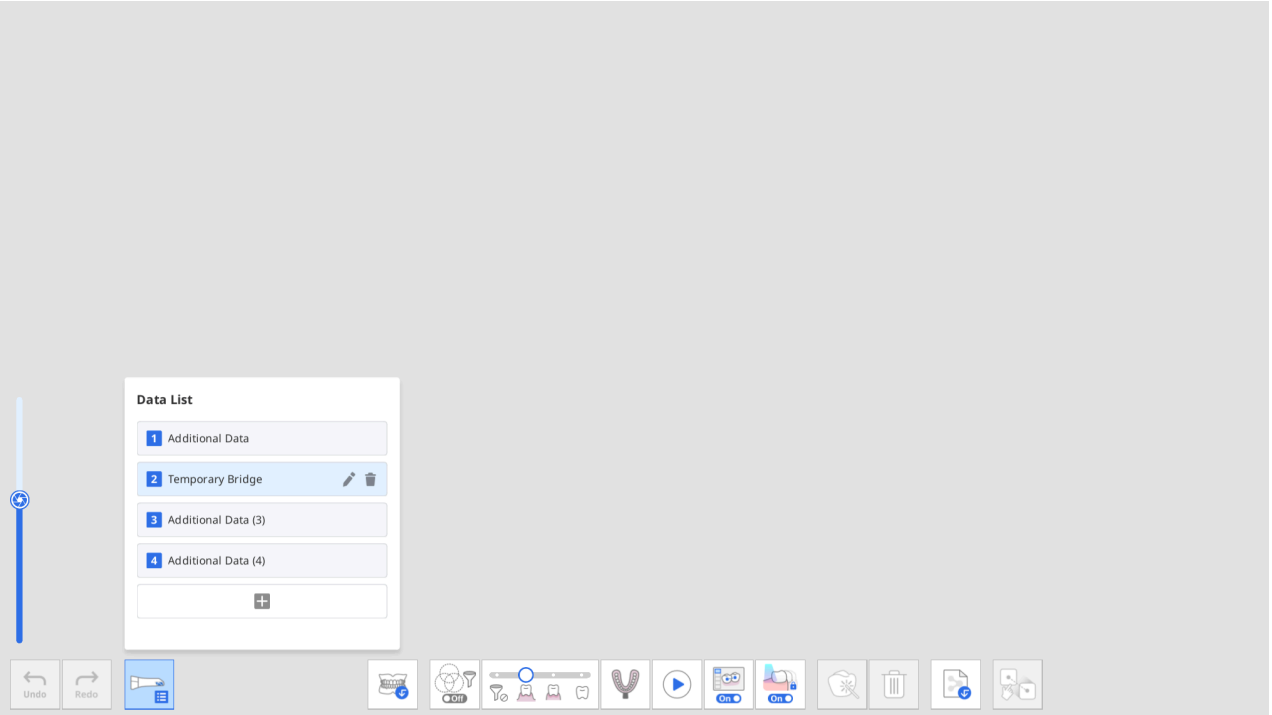

3. Acquire the first additional data.



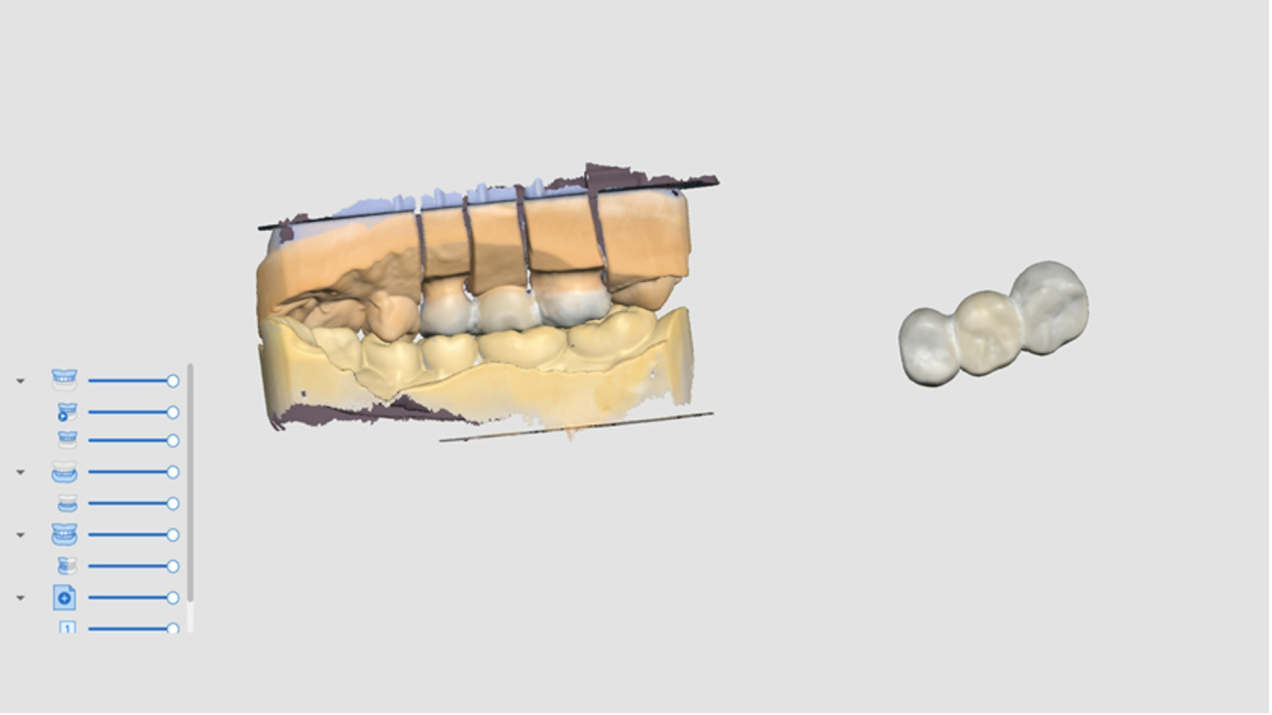

4. Click the "+" button on the Additional Data Management dialog and acquire another scan data for the added one.




5. You can add up to seven additional data. You can also delete or rename the existing additional data from the list.




6. You can check the added additional data in the data tree on the Overview.



# Smart Scan Review

## Smart Scan Review Stage

> 🔎 **Note**
>
> - You can enable or disable the Smart Scan Review stage and set detailed options on Settings > Scan Data Analysis > Smart Scan Review.
> - The Smart Scan Review stage is available for both default UI and simple UI.

| | |
|---|---|
|  | Provide a final review of data accuracy before processing the acquired scan data. |

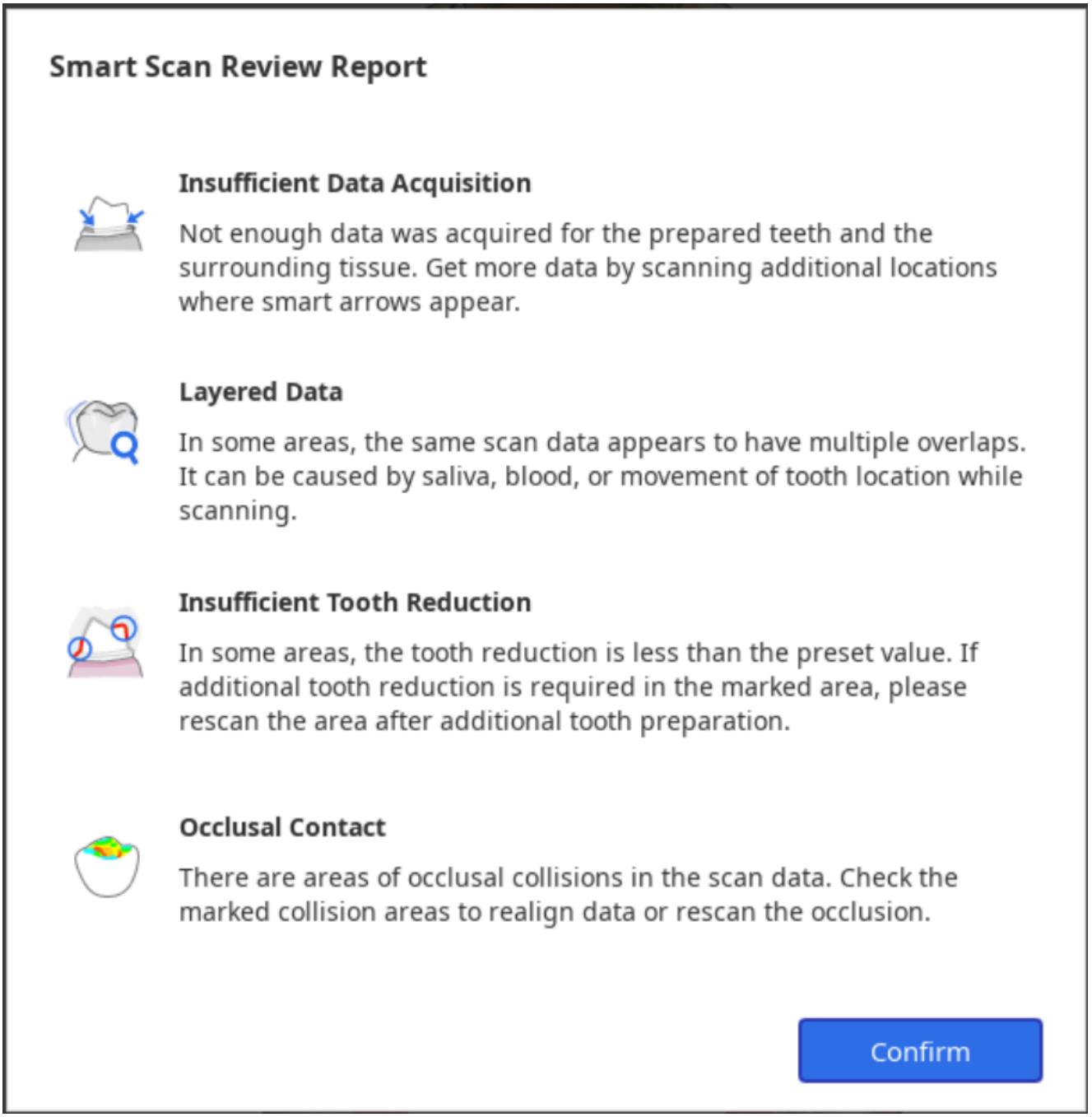
The Smart Scan Review process follows the steps below:

| | |
|---|---|
| Align with Occlusal Plane | You can position data in the occlusal plane. It is recommended to align the scan data to the occlusal plane, as this may affect the results of the subsequent tooth numbering. |
| Tooth Area Selection | The program automatically detects prepared teeth for crowns and their adjacent. You can use the selection tools at the bottom to manually select additional areas or modify the selected area. |
| Report Creation | You can see the report on the selected areas of prepared teeth and their adjacent teeth. You can also check the areas of implanted fixtures if selected in the Tooth Area Selection step. |

> 🔎 **Note**
>
> From Medit Scan for Clinics 1.14.0 onward, the Align with Occlusion Plane step is automatically skipped and no longer requires user input.

## Smart Scan Review Report

In the Smart Scan Review Report, you can check the following:




| | |
|---|---|
| Insufficient Data Acquisition | Identify areas of insufficient scanning on prepared teeth and their adjacents. |
| Layered Data | Mark areas where multiple layers of data were created during the scan due to saliva or blood. |
| Insufficient Tooth Reduction | Check the tooth preparation and mark areas that need further tooth reduction for prostheses, such as crowns and copings. |
| Occlusal Contact | Mark areas of occlusal collisions or where the maxilla and the mandible are not in contact with each other, and check if both sides of occlusion data were acquired. |

# Tools for Smart Scan Review

> 🔎**Note**
>
> The Preparation Review tool is enabled only when form information is registered in the Medit Link > Form > Teeth tab.

The following tools are provided at the bottom of the screen to review the data:

| | | | |
|---|---|---|---|
| Data Review Tools | Smart Arrows |  | Show smart arrows where data acquisition is insufficient. |
| | Layered Data |  | Mark areas where scan data has multiple overlaps due to saliva, blood, or movement of teeth. |
| | Remove Layered Data |  | Delete the marked areas of layered data. |
| | Preparation Review |  | Check whether the tooth preparation is done within the preset value range and mark areas that do not meet the set value range. |
| | Remove Data with Insufficient Reduction |  | Delete the marked areas of insufficient tooth reduction. |
| | Occlusion Analysis |  | Analyze interferences between the maxilla and mandible and show the analysis results with a color map. |
| Switch View | |  | Change the view between opened jaws and closed jaws. |
| Show Report | |  | Show the results of the smart scan review again. |

# Smart Scan Review Process

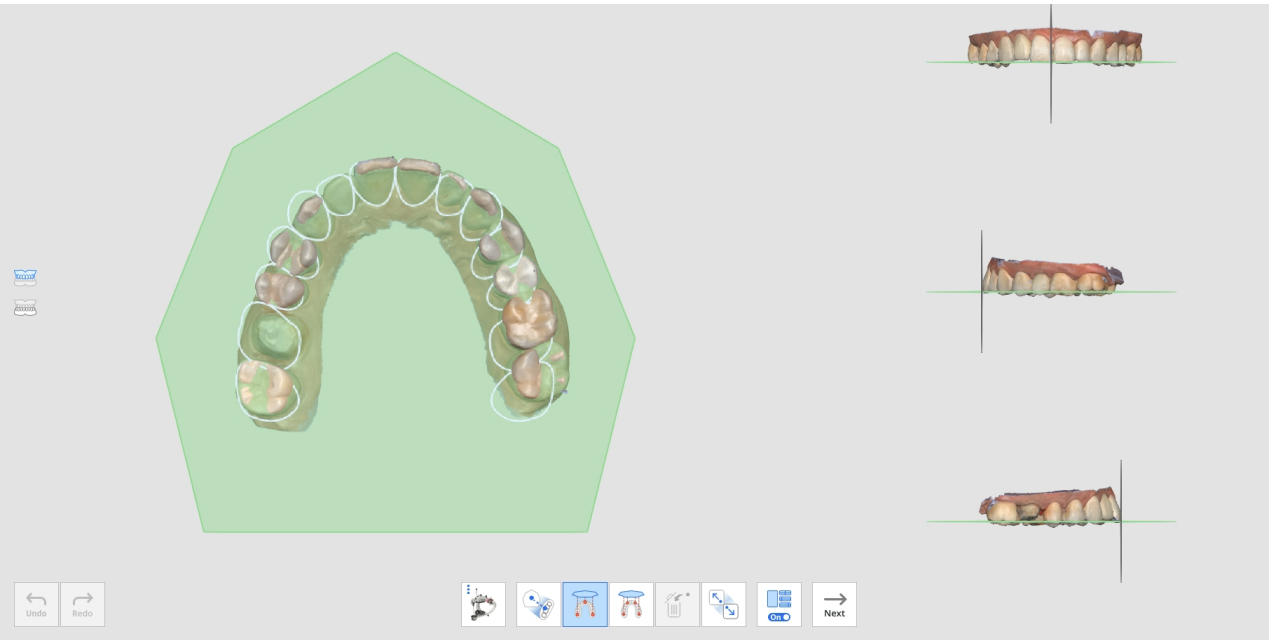
1. Acquire scan data in the Maxilla, Mandible, and Occlusion stages and align the occlusal data.

   > **The Smart Scan Review stage is enabled when the following conditions are met:**
   >
   > - Occlusion scan data exists, and the occlusion data is aligned with scan data.
   > - If pre-op for maxilla or pre-op for mandible data exists, the pre-op data should be aligned with the maxillary or mandibular data.

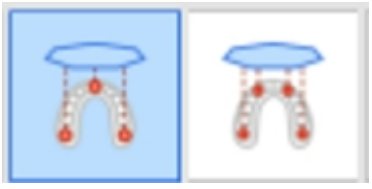
2. Click the "Smart Scan Review" stage.




3. The program automatically tries to align data to the occlusal plane in the Align with Occlusal Plane step. You can view the data from three different angles on the right side of the screen and manually adjust the data location.




- If it fails to align, you can manually align the target data to the occlusal plane by clicking the 3 or 4 points on the occlusal plane.



- To align a half arch to the occlusal plan, select the "Half Arch Alignment" feature.

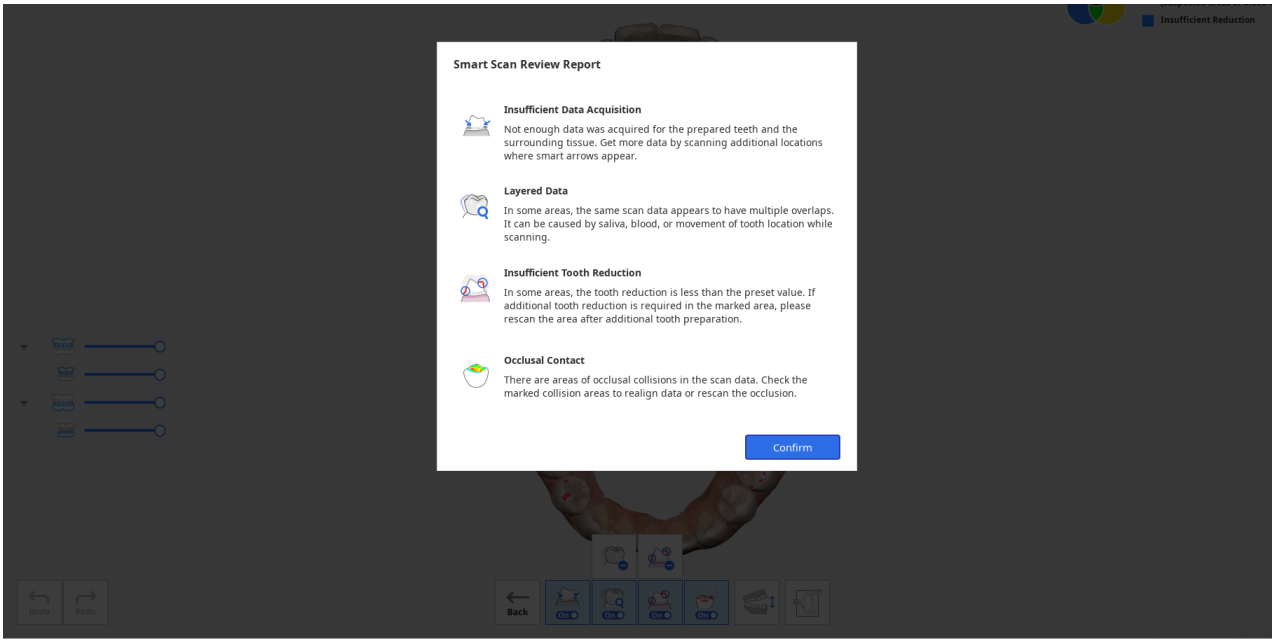


4. Once the data is aligned to the occlusal plane, click "Next" to move to the Tooth Area Selection step.

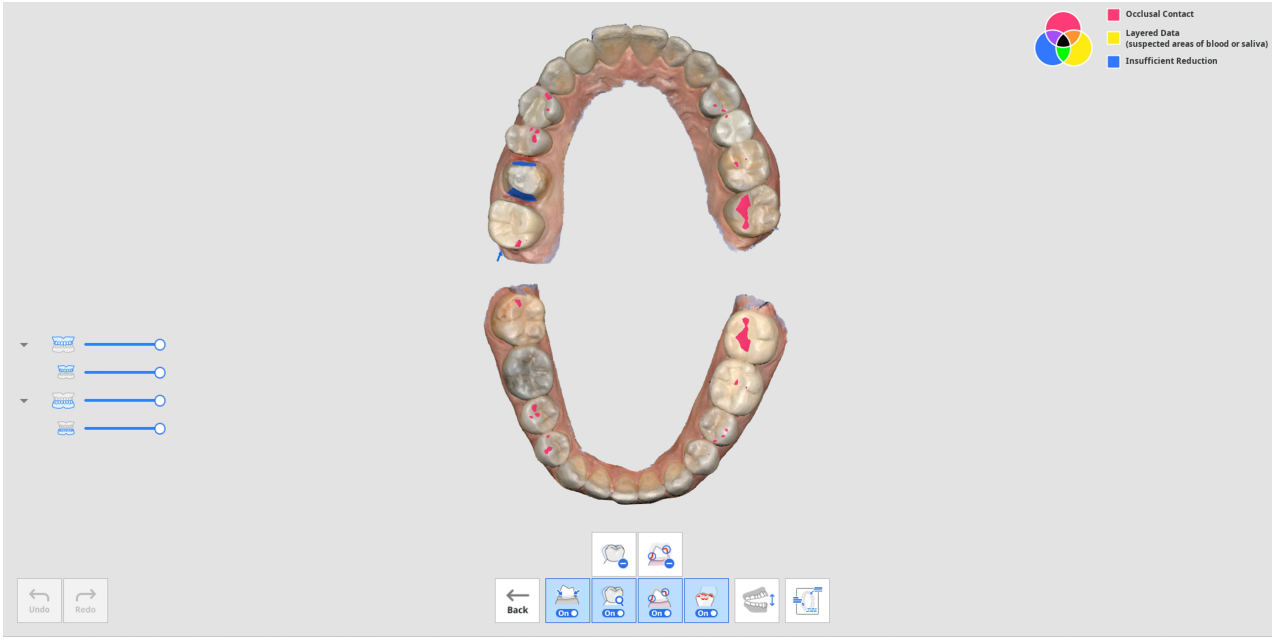
5. The program automatically selects areas for prepared teeth (for which products are registered in the Medit Link form) and their adjacent teeth. You can select more areas or modify the selection using the provided selection tools.




6. Click the "Next" button when it is enabled after selecting all prepared teeth areas.
7. The Smart Scan Review Report pops up, including the analysis results for the four items: insufficient data acquisition, layered data, insufficient tooth reduction, and occlusal contact.



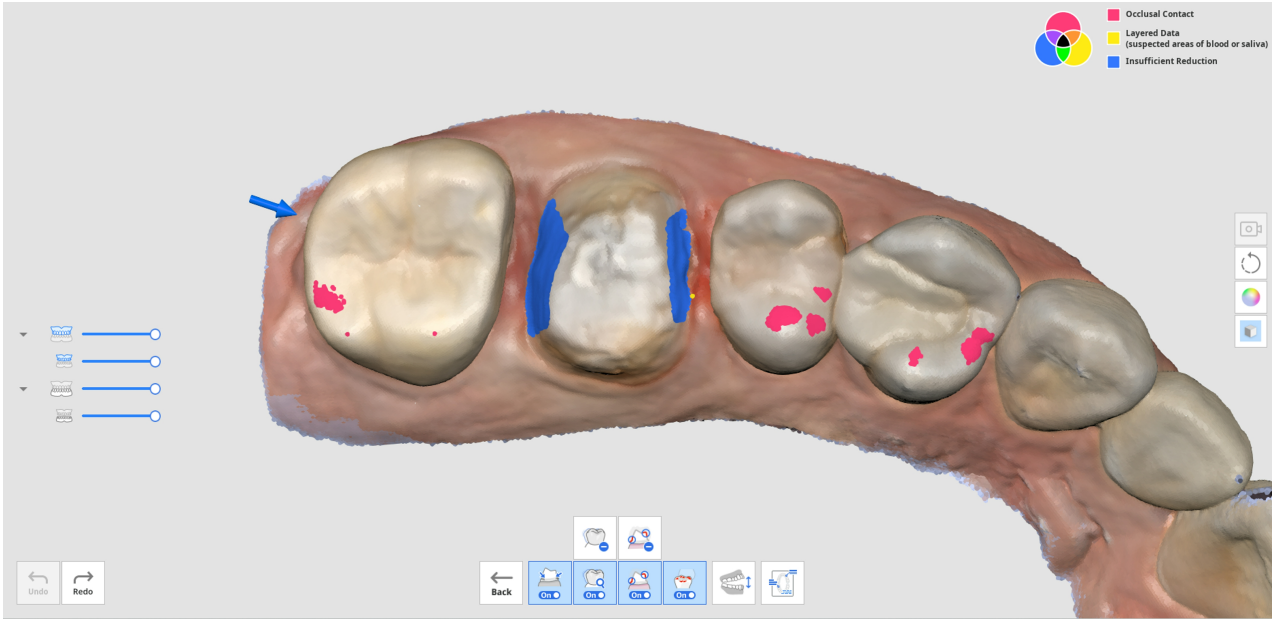

8. After reviewing the report, click the "Confirm" button to close the report.
9. You will see the scan data marked with different colors for results analyzed by each review tool provided at the bottom of the screen.



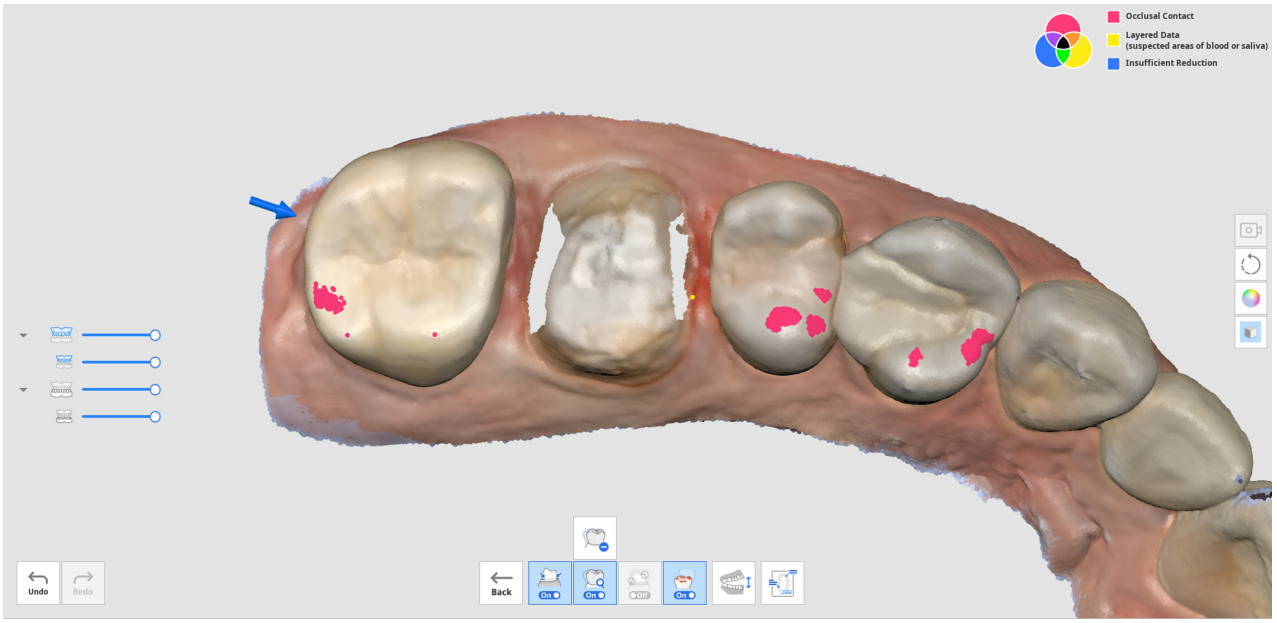

- You can switch views between the open jaw and closed jaws.
- You can view the report again by clicking the "Show Report" button at the bottom of the screen.
- The color information in the upper right corner of the screen allows you to see areas where problems may occur in different colors for different functions.




10. Refer to the color information on the top right of the screen and check the data where the data is colored.

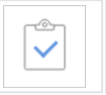



11. You can use the "Remove Layered Data" or "Remove Data with Insufficient Reduction" tools to delete the marked areas of layered data or insufficient tooth reduction.
12. You can also return to other scan stages to scan additional data or trim and rescan if required.

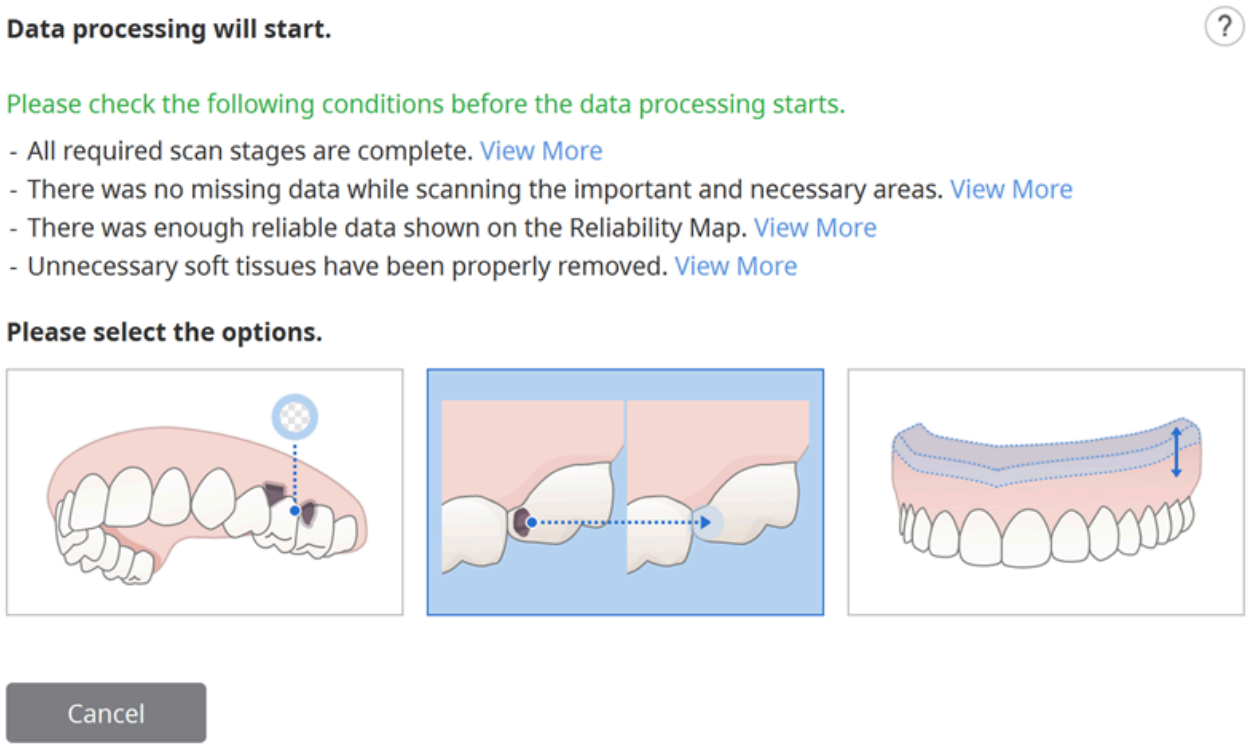

Occlusal Contact
Layered Data
(suspected areas of blood or saliva)
Insufficient Reduction
Undo
Redo
Back

# Complete

## Complete Stage

| | |
|---|---|
|  | Complete the scan and generate the result data. |

When you click the Complete stage icon, the following dialog appears to select how to process data.

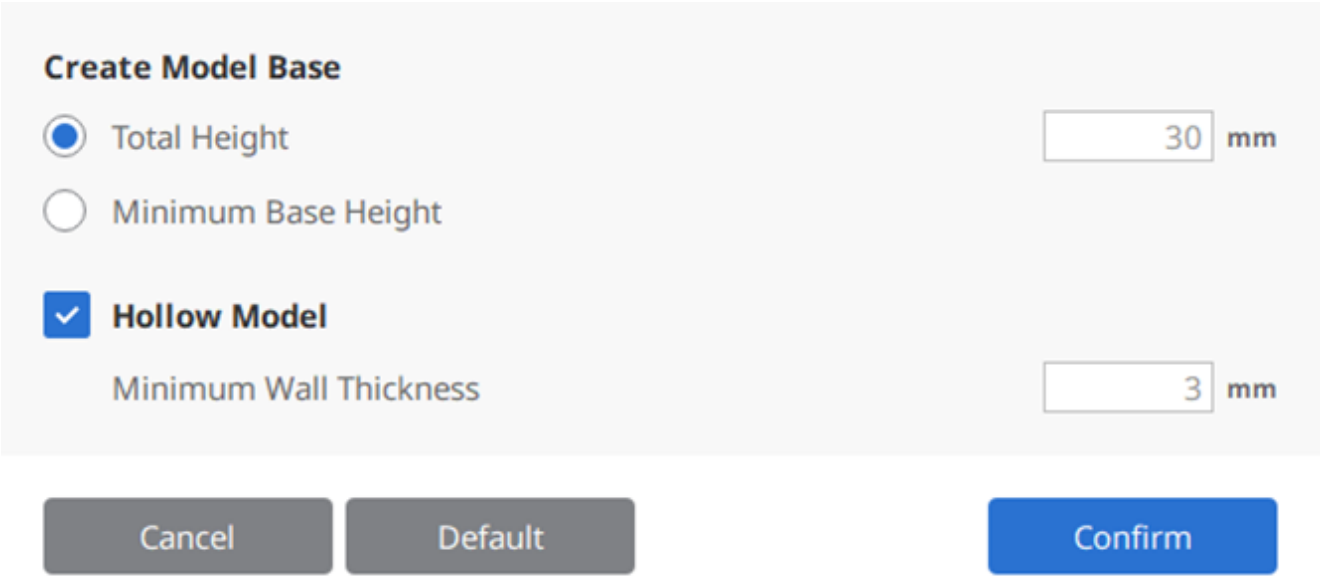



Select one of the following options.

| | | |
|---|---|---|
|  | Process Data (As It Is) | Create optimized 3D digital models.<br>The noise will be partly removed, and the areas with insufficient data will remain as empty spaces.<br>You can adjust the file size and surface roughness in the settings if needed. |
|  | Fill Major Holes | Use this option to fill all the major holes in the scan data.<br>Based on the reliability map, it generates data for areas where data was not acquired by extending data with sufficient reliability. |
|  | Create 3D Printable Model | Use this option to create a model for 3D printing.<br>It expands the largest boundary to add thickness to produce a model with a flat bottom for 3D printing.<br>You can adjust the file size and surface roughness in the settings if needed. |

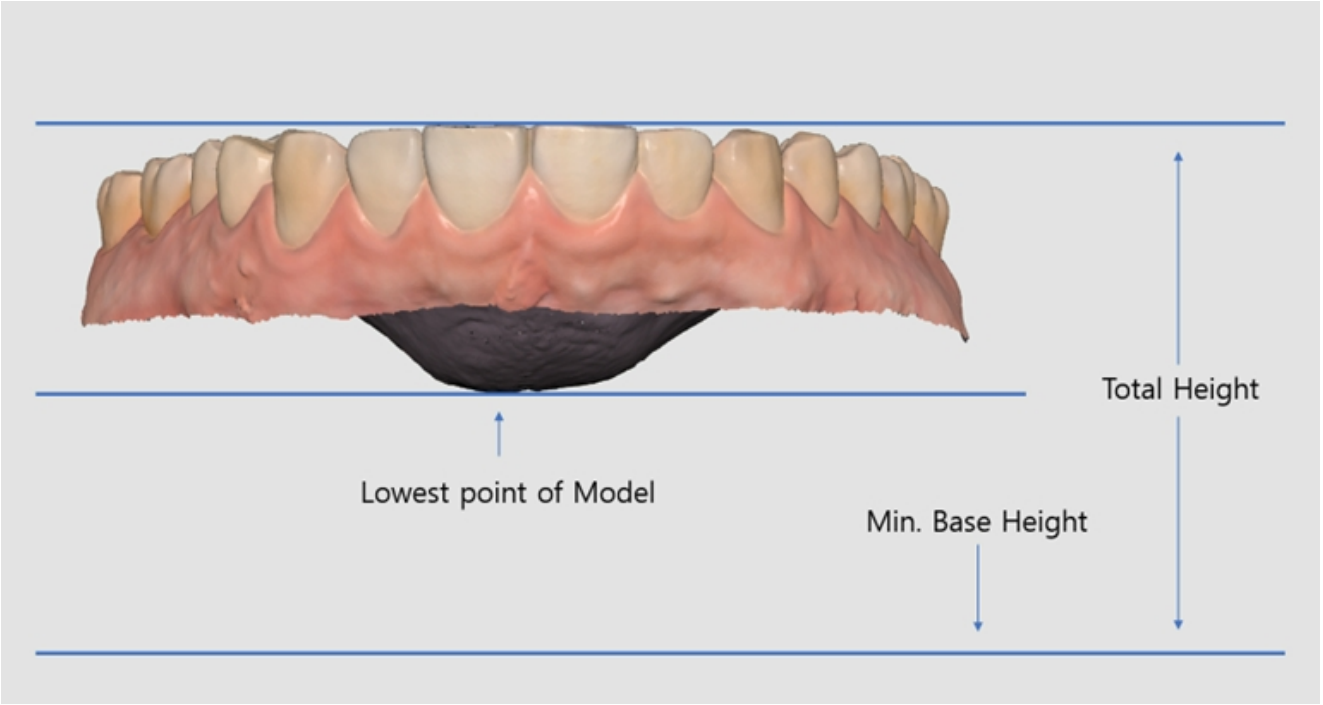
| | | |
|---|---|---|
|  | Create Denture Replica Data | Use this option to create a model optimized for a 3D denture replica.<br>The noise will be partly removed, and the areas with insufficient data will remain as empty spaces.<br>You can adjust the file size and surface roughness in the settings if needed. |

If you select the "Create 3D Printable Model", the following dialog appears.




Please refer to the following table and image and enter the value for height and thickness.

| | |
|---|---|
| Total Height | Total height of the model, including the base |
| Minimum Base Height | Minimum height from the bottom of the base to the lowest point of the model |
| Minimum Wall Thickness | Minimum thickness of the model's inner wall |



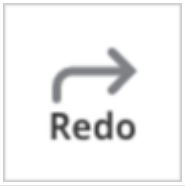
# Scan Stage Tools

The following tools are provided at the bottom of each scan stage.




# Basic Scanning Tools

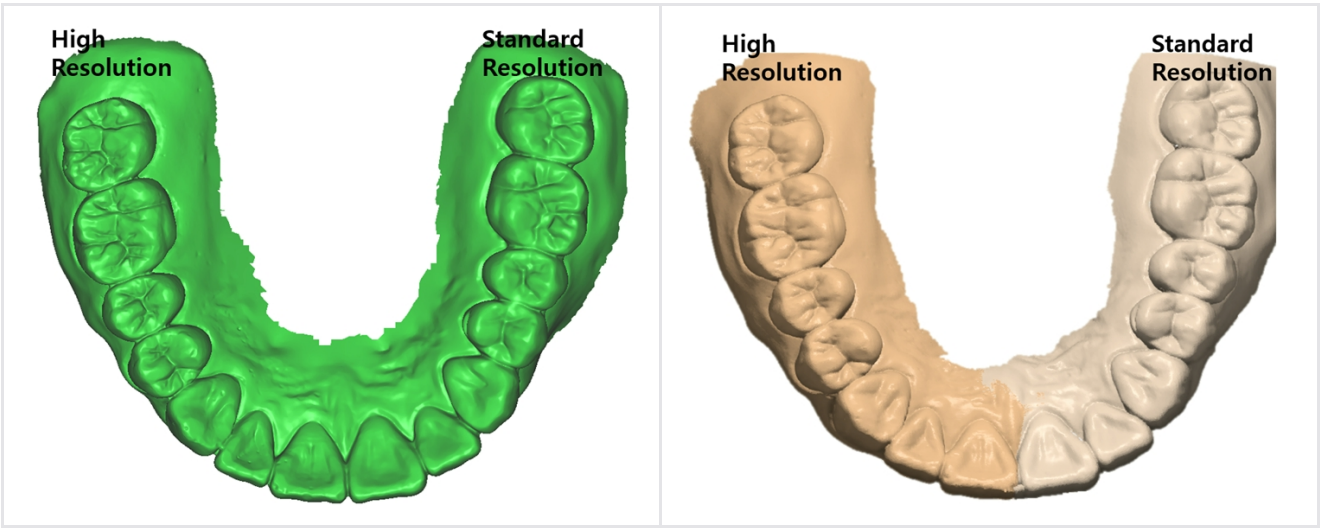
| | | |
|---|---|---|
|  | Start | Start the scan.<br>The user can also start the scan by pressing the Scan button on the scanner. |
|  | Stop | Stop the scan.<br>The user can also stop the scan by pressing the Scan button on the scanner. |
|  | Optimize | Align 3D images for a more accurate scan.<br>All the noise will be removed after optimization. |
|  | High Resolution Scan | Acquire high-resolution scan data for entire or partial scan data.<br>The high-resolution and standard-resolution scan data are smoothly merged in post-processing.<br>* Unavailable with i600 |
|  | Import Scan Data | Import 3D data from Medit Link. |
|  | Delete | Delete scan data for the current stage.<br>All data that are related to the current stage can be deleted. |
|  | Undo | Cancel the previous scan. |

| | | | |
|---|---|---|---|
|  | | Redo | Restore the canceled scan. |

# High Resolution Scan

* unavailable with i600

Please refer to the following comparison between the high-resolution and standard-resolution scan data.




🔎**Note**

You can set options for high-resolution data processing on Settings > Post-Processing > High-Resolution Data Processing.

- You can select whether to apply high-resolution data processing to only HD scan data or both SD and HD scan data.
- You can set to apply high-resolution data processing to prepared teeth data.

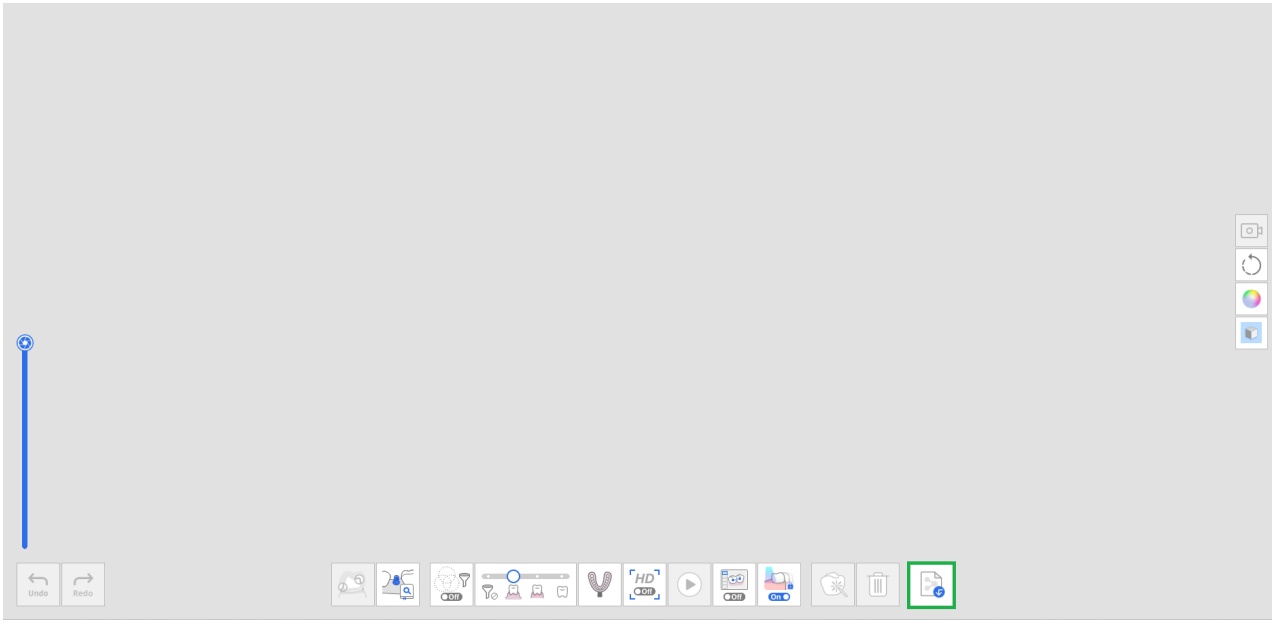
# Import Scan Data

This feature allows the users to import scan data acquired by third-party scanners. You can edit the data or perform additional scanning with the imported data.

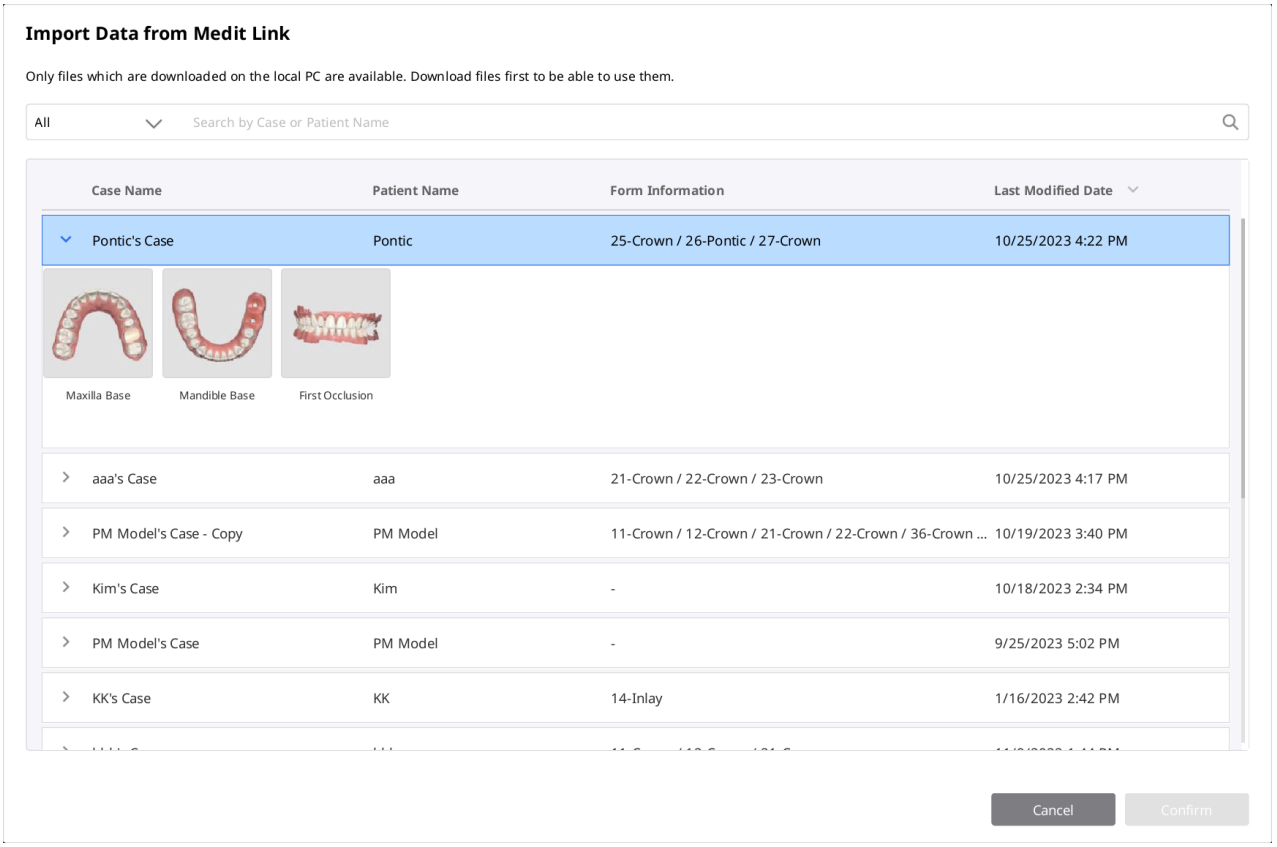
🔎**Note**

- You can import a previously scanned file from a case in Medit Link
- When importing a third-party scan file, make sure to attach it to a case in Medit Link before proceeding.
- You can import a file before starting the scanning process or moving on to the next stage.

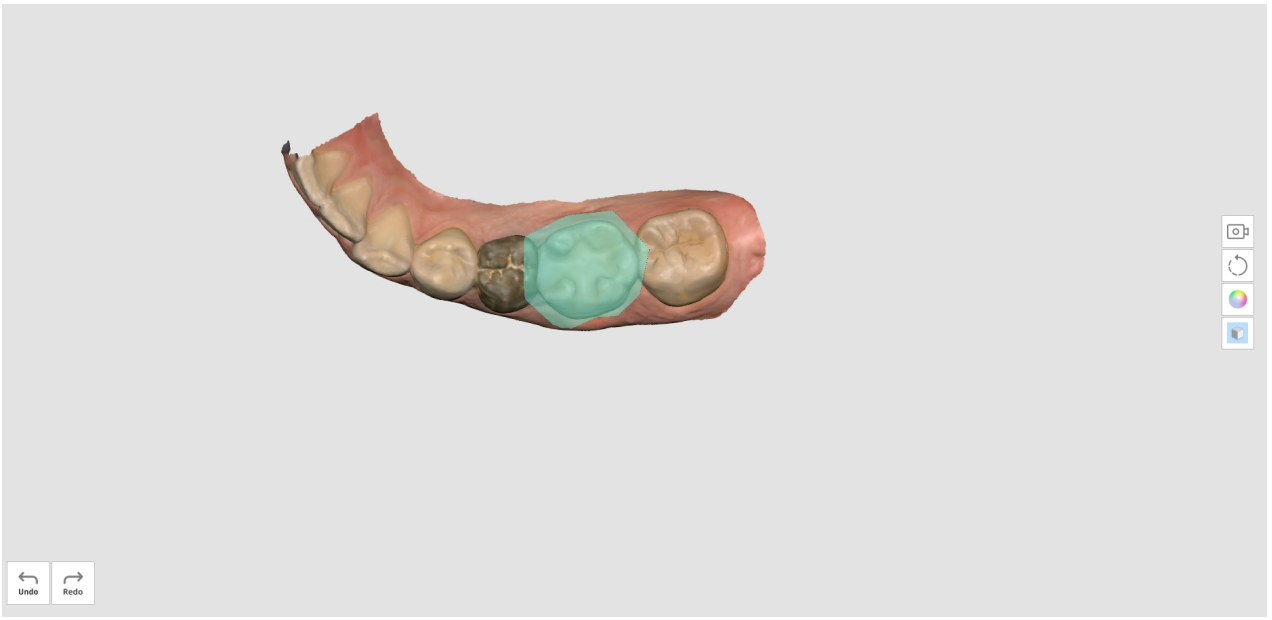
1. Click the "Import Scan Data" icon.



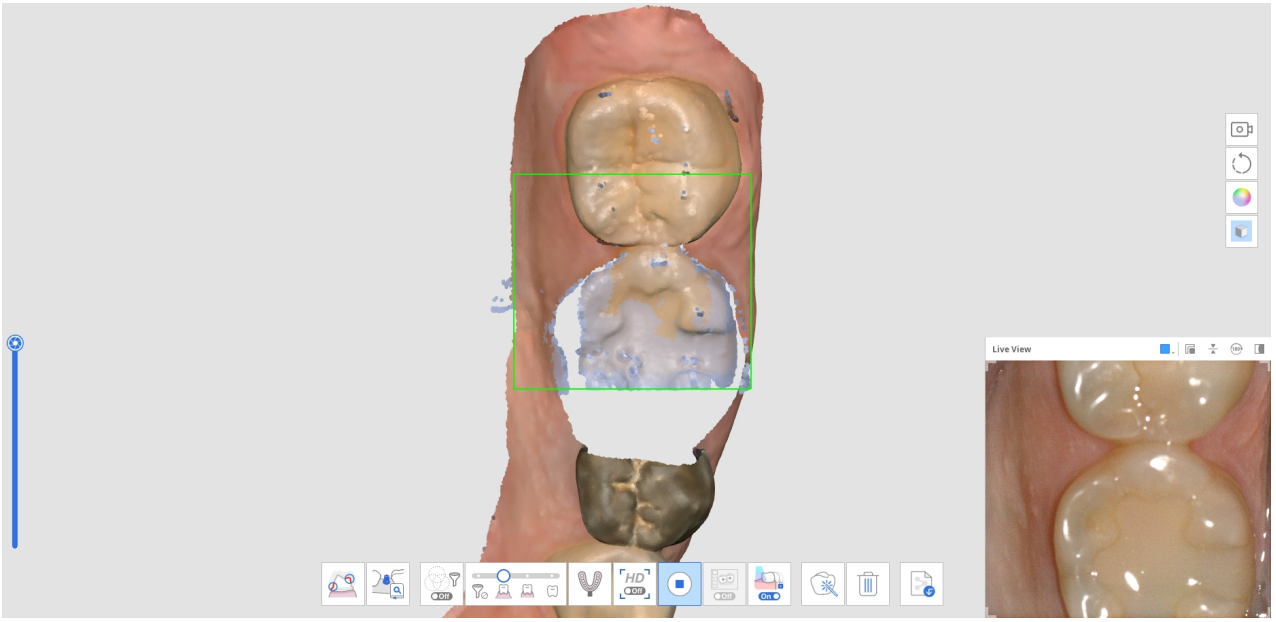
2. Choose a file from a Medit Link case.




3. Trim the part needing a rescan.




4. Perform addition scanning.




# Filtering Tools

| | | |
|---|---|---|
|  | Smart Scan Filtering | Filter unnecessary soft tissue data while scanning.<br>Three filters are available for Smart Scan Filtering.<br>• No Filtering<br>• Teeth + Gingiva<br>• Intense Teeth + Gingiva<br>• Teeth |

| | | |
|---|---|---|
|  | Smart Color Filtering | Filter specific colors from being scanned.<br>You can add and manage the color to filter. |
|  | Smart Stitching | Acquire and align scan data freely, regardless of your scan strategy.<br>Data is automatically aligned while scanning and can be manually aligned after scanning stops. |

## Smart Scan Filtering

This feature removes unnecessary soft tissue data while scanning, depending on the selected filter. Three filters are available for your convenience.

| | | |
|---|---|---|
|  | No Filtering | Soft tissue remains intact.<br>This option is useful for plaster model cases. |
|  | Teeth + Gingiva | Remove soft tissues that interfere with the scan, leaving only the necessary teeth and gingiva.<br>You can use this option for most of the general scan cases. |
|  | Intense Teeth + Gingiva | Remove soft tissues that interfere with the scan, leaving only the necessary teeth and gingiva.<br>This option only acquires gingiva data within a certain distance from the tooth and excludes other soft tissues away from the teeth.<br>It is also effective for edentulous scanning. |
|  | Teeth | Remove all soft tissues and gingiva, leaving teeth only.<br>This option is effective when scanning only the teeth as an additional scan after using the "Teeth + Gingiva" filter for initial scanning. |

# Smart Color Filtering

The "Smart Color Filtering" option prevents the scanning of alien materials (e.g., gloves, etc.) in the intraoral environment by registering their colors. Once the colors are registered, and the option is turned on, the colors will automatically be filtered out during the scanning process.

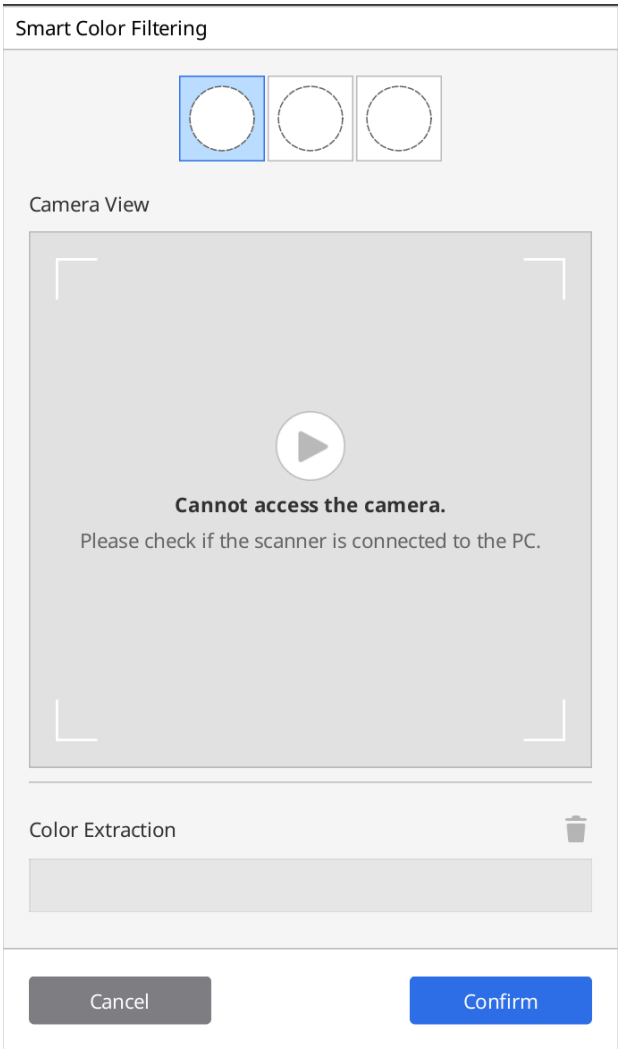
1. Turn on filtering by clicking the "Smart Color Filtering" option at the bottom.



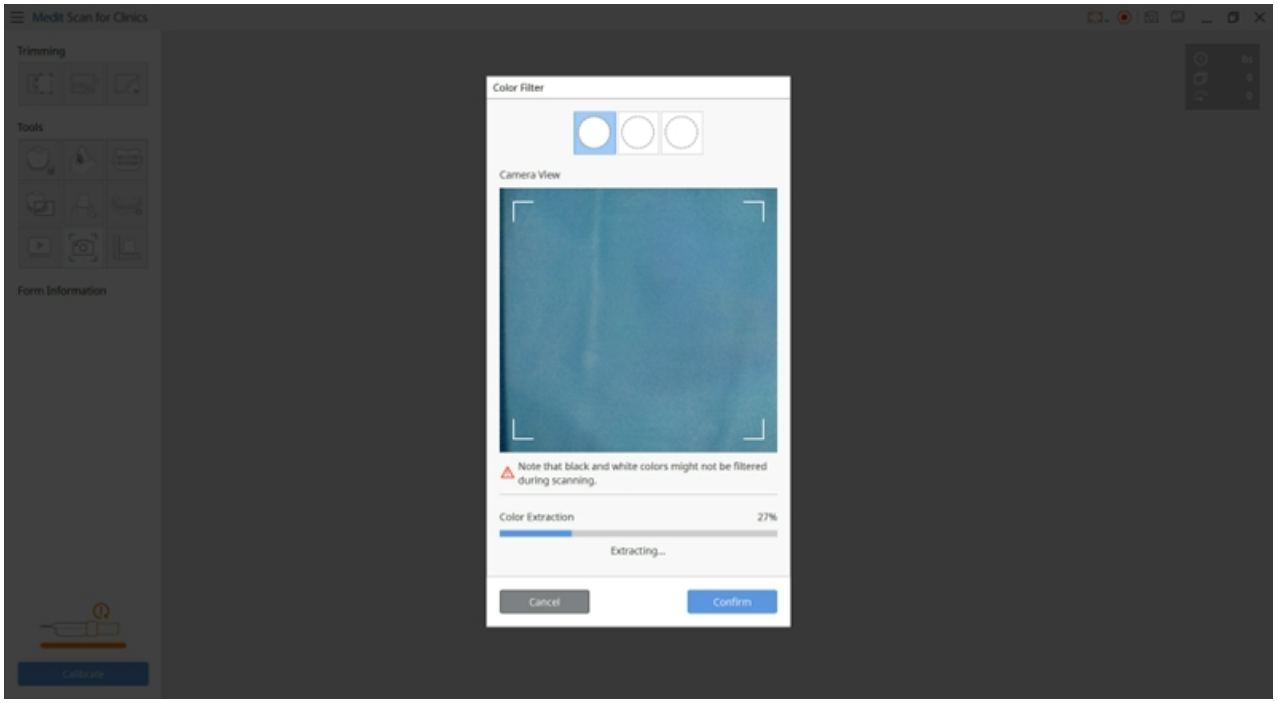

2. To register a new color, click the "Add a Color" icon.



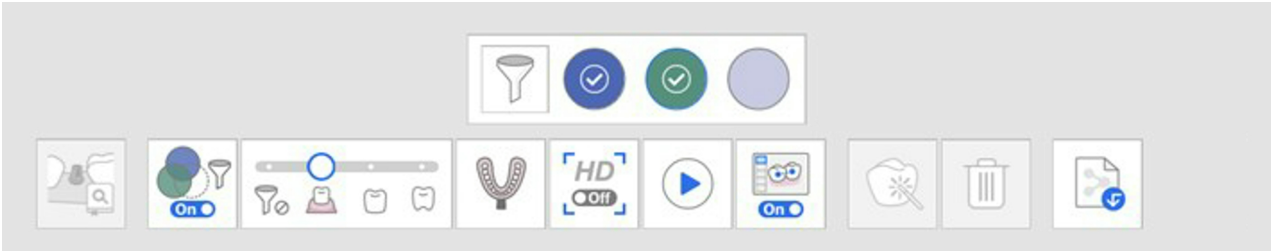
3. The Smart Color Filtering dialog appears.




4. Prepare the material to be filtered out. Then, press the Scan button on the scanner to start the color recognition process.




5. Click "Confirm" to register the color and complete the color registration.
6. You can turn on or off each color filter by clicking the color icons.




7. The registered colors will be shown on the icon and saved for all scan stages unless you change them.




## Smart Stitching

> 🔎**Note**
>
> - Smart Stitching is only supported for the Pre-Op for Maxilla, Pre-Op for Mandible, Maxilla, and Mandible stages.
> - Smart Stitching is unavailable for the Abutment Library Matching, Impression Scan, and Relined Denture Scan tools.
> - You cannot use Smart Stitching after using the Abutment Library Matching and Scan Body Liabrary Matching features or after occlusion alignment.
> - Smart Stitching is not supported when Scan Assist is enabled.

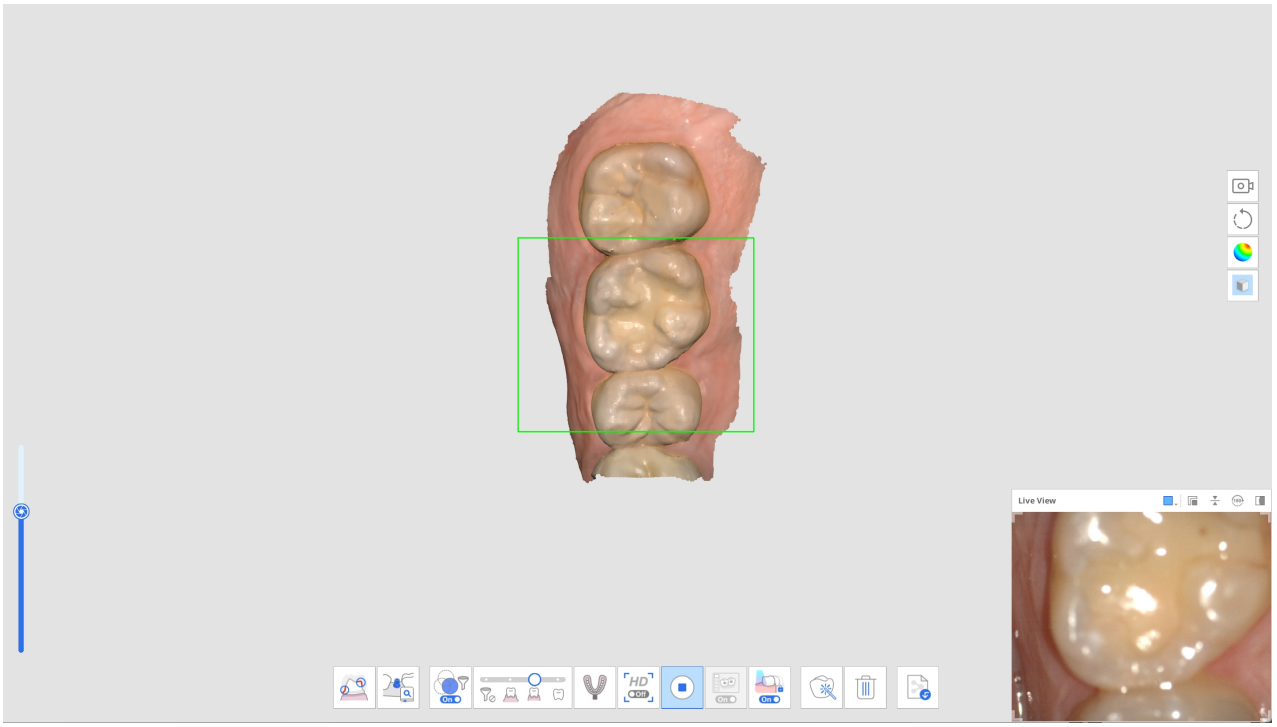
For 3D scanning using the video recording method, it is important to scan continuously so that the camera does not lose focus during the process of acquiring scan data.

This process is highly dependent on the user's skill and the condition of the patient's mouth, but the scanning method supported by Smart Stitching can eliminate this inconvenience.

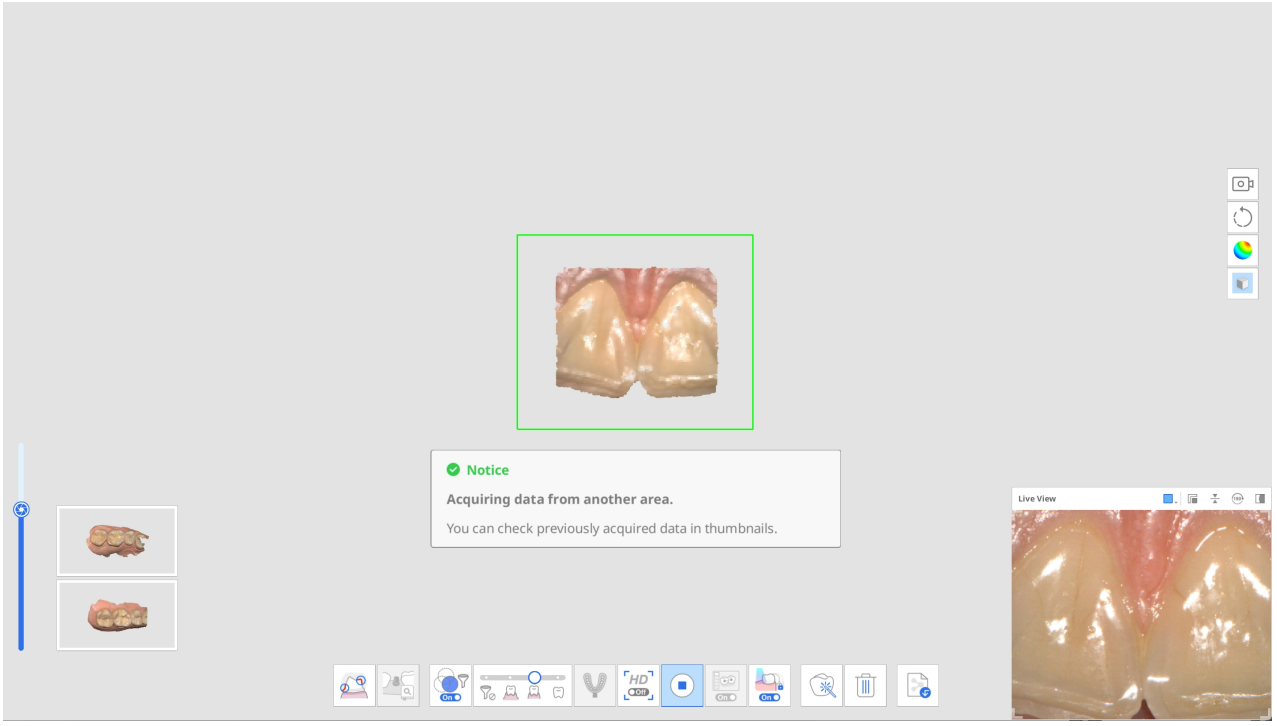
1. Turn on the "Smart Stitching" icon at the bottom.



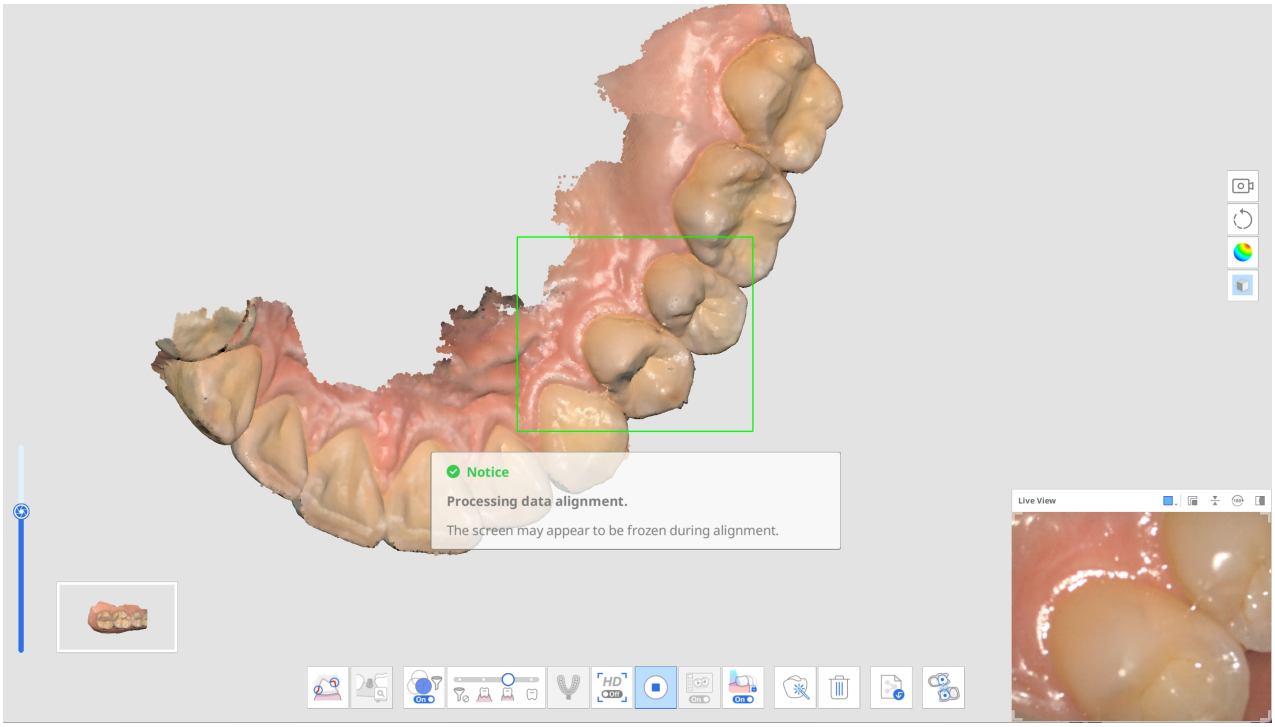

2. Start scanning in the stage that supports Smart Stitching, Pre-Op.



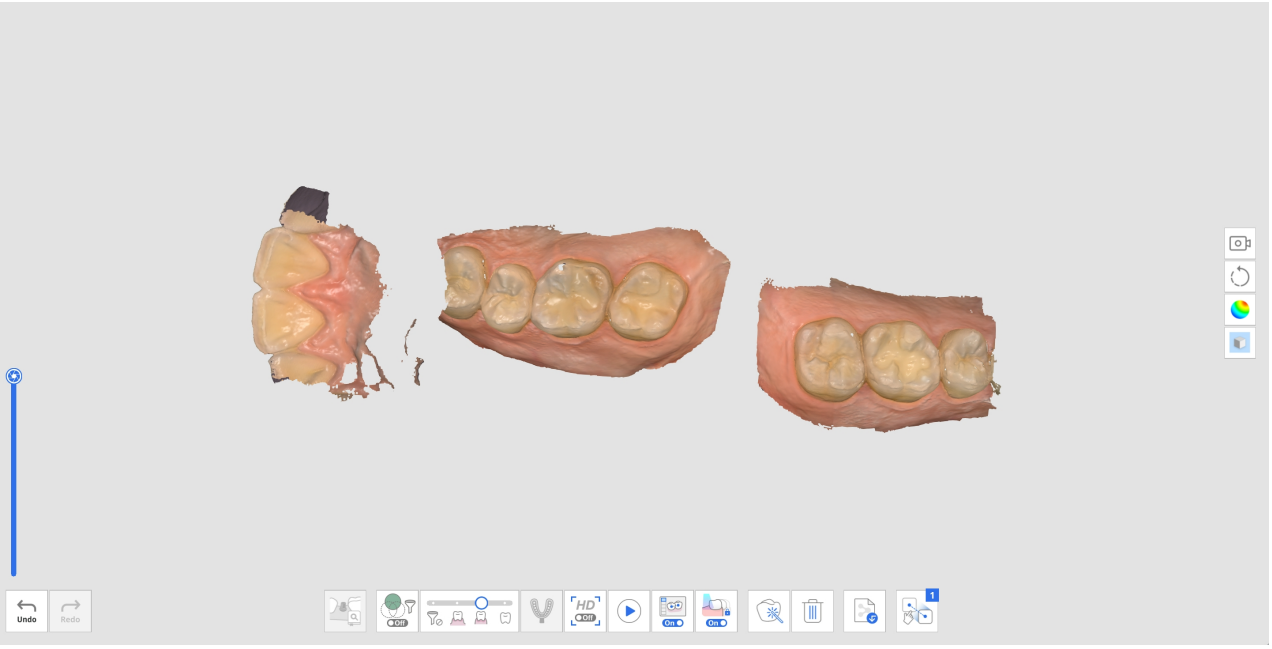

3. If the scanner is moved to scan another non-contiguous area, a new separate part of the scan data will be created. At this time, the previously scanned parts of the data are displayed as thumbnails in the lower left corner of the screen.



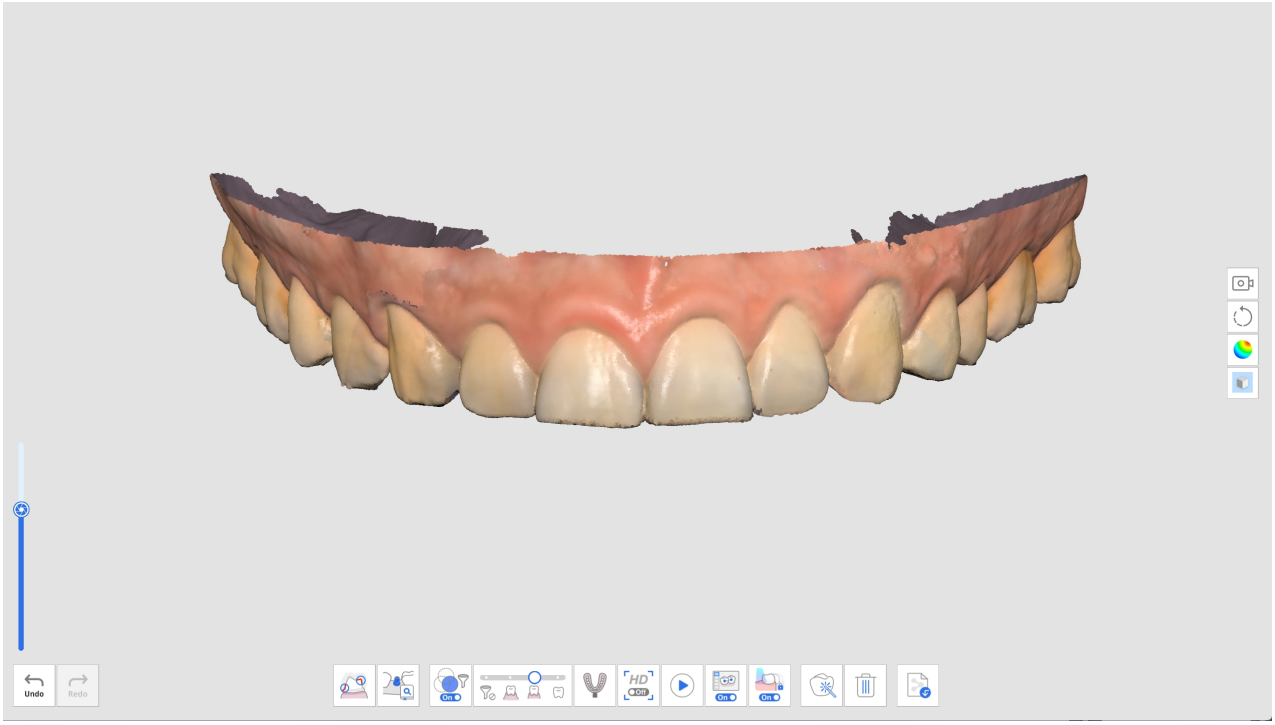
4. During scanning, if the scanner gets new data in an unaligned scan data area, it will automatically attempt to align, and any thumbnails of aligned data will disappear.



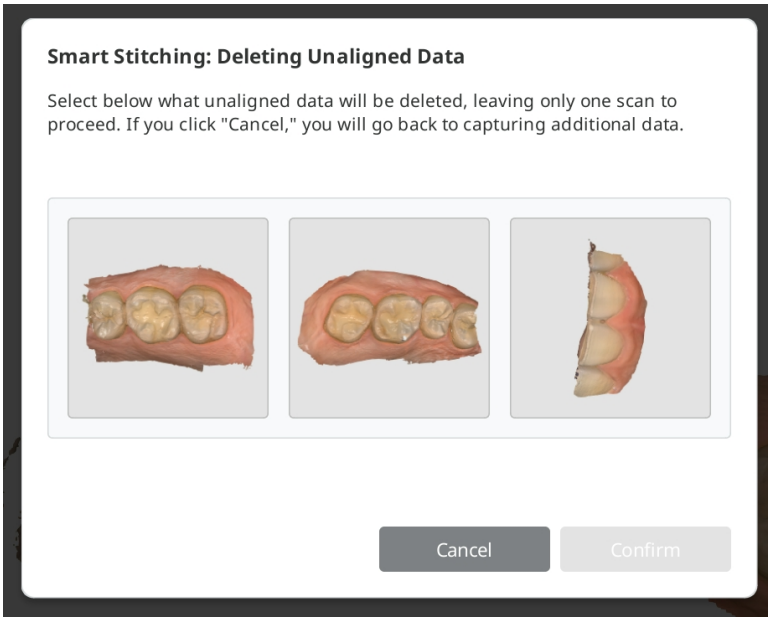

5. Once you pause to review all the separately captured parts of the data, they are assembled for you on the main screen. Note that all the captured parts of the data must be aligned into a single scan before moving to another scan stage.




6. To align all scan data, conduct one of the following:
   - Scan additional data to get more data for automatic alignment.
   - Use the Manual Alignment tool to align data.
7. Data acquisition is completed when all unaligned scan data is aligned, as shown below.



8. If unaligned data is detected before moving to another scan stage, the user is prompted to delete the unaligned data until only one set of scan data remains.




# Advanced Tools

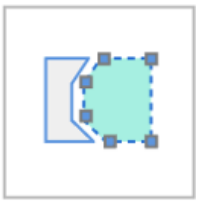
| | | |
|---|---|---|
|  | Impression Scan | Provide seamless scanning to combine intraoral and impression scan data.<br>Easily merge the intraoral and impression scan data with the integrated scan.<br>* Refer to Case and Workflow Examples > Impression Scan for a |

| | | |
|---|---|---|
| | | detailed description of how to use the tool. |
|  | Abutment Library Matching | Manage custom abutment libraries. This library data is aligned automatically with the scan data, minimizing the need to scan difficult-to-reach areas.<br>* Refer to Case and Workflow Examples > Abutment Library Matching for a detailed description of how to use the tool. |
|  | Scan Body Library Matching | Manage pre-set and custom scan body libraries.<br>This library data is aligned automatically with the scan data, minimizing the need to scan difficult-to-reach areas. The library data can be shared for further processes, such as design.<br>* Refer to Case and Workflow Examples > Scan Body Library Matching for a detailed description of how to use the tool. |
|  | Mandibular Movement | Record and replay the patient's mandibular movement.<br>* Refer to Scan Stages > Occlusion > Additional Tools for Occlusion Stage > Mandibular Movement for a detailed description of how to use the tool. |
|  | Preparation Review | Check whether the tooth preparation is done within the pre-set value range.<br>You can check the prepared tooth data with insertion path and distance measurements.<br>* Refer to Case and Workflow Examples > Preparation Review for a detailed description of how to use the tool. |

# Main Toolbar Tools

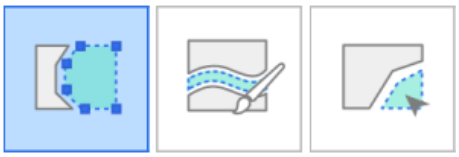
## Trimming Tools

Trimming tools help to edit and remove noise from the data.

| | | |
|---|---|---|
|  | Polyline Trimming | Remove all entities within a polyline shape drawn on the screen. |
|  | Brush Trimming | Remove all entities on a freehand-drawn path on the screen.<br>Only the front face will be selected.<br>The brush comes in three different sizes. |
|  | Quick Trimming | Remove data detached from the rest of the data quickly. |

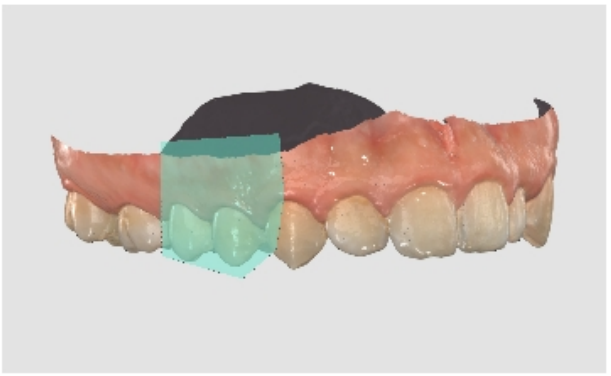
## Polyline Trimming

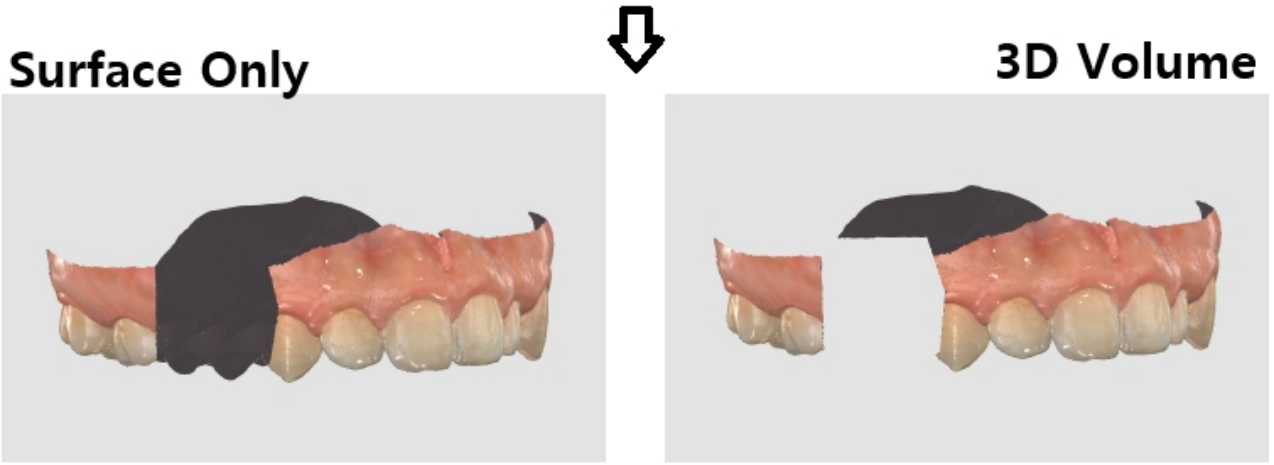
1. Select “Polyline Trimming” from the main toolbar on the left.



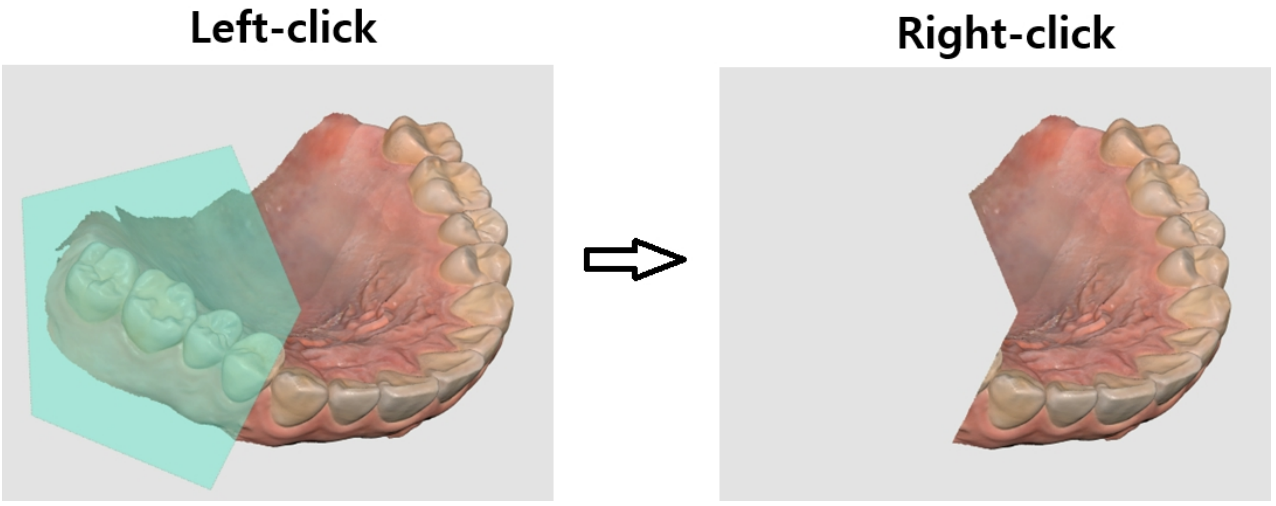
2. Choose a trimming mode at the bottom of the screen: “Surface Only” or “3D Volume.” “Surface Only” deletes only the data visible from the current view, while “3D Volume” deletes the entire 3D shape within the selected

area.



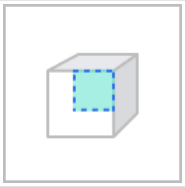
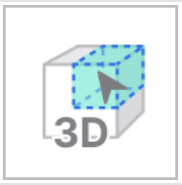



3. Left-click to draw a polyline around the area you want to delete, then right-click to delete data within the enclosed shape.




## Brush Trimming

With Brush Trimming, you can remove all entities on a freehand-drawn path on the screen. The following tools are provided at the bottom of the screen when you select the Brush Trimming tool.

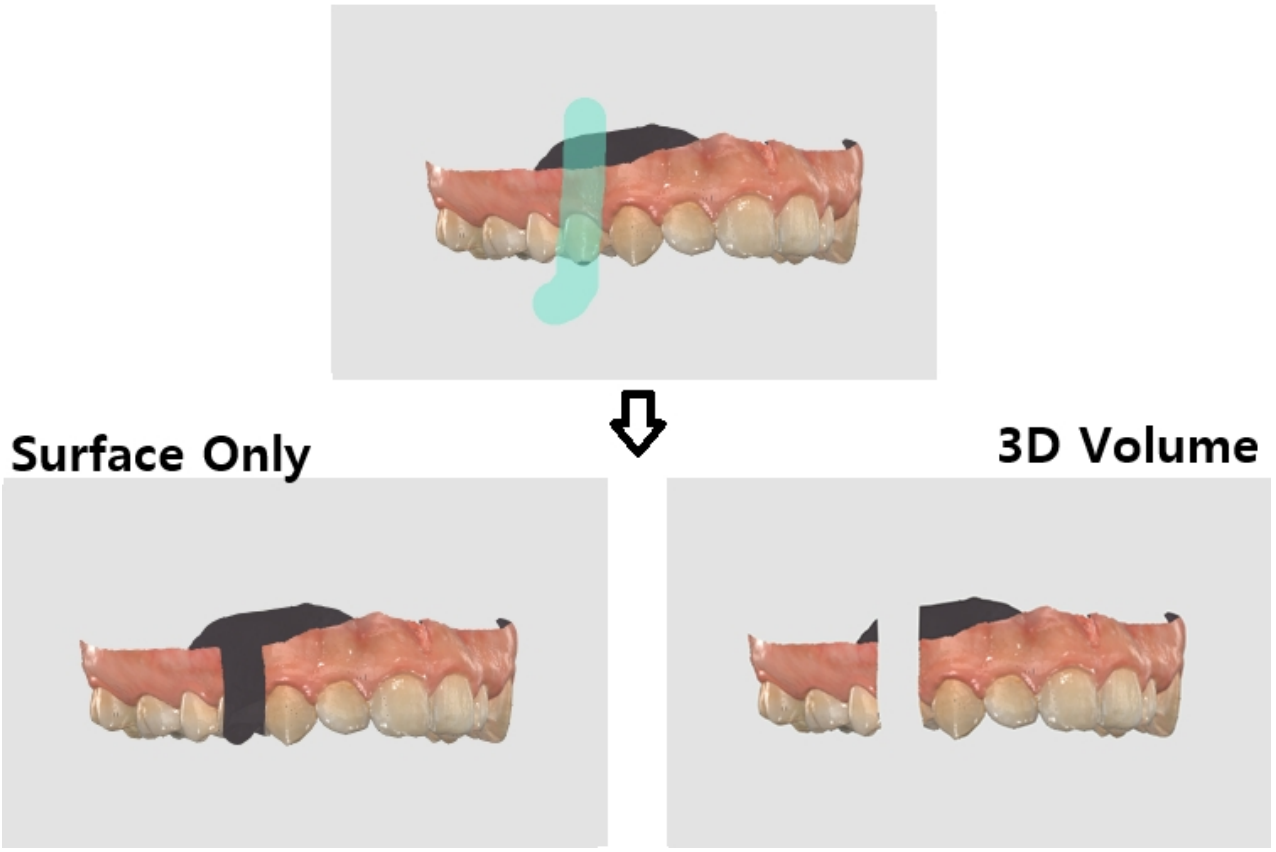
| | | |
|---|---|---|
|  | Surface Only | Trim based on the visible surface only. |
|   | 3D Volume | Trim based on the selected 3D volume. |
|  | Brush Size | Set a brush size. The brush comes in three different sizes.  |
|   | Manual Noise Trimming | Remove unnecessary noise data in the area selected with a brush. |
|   | Auto Noise Trimming | Remove unnecessary noise data automatically according to the viewing direction. |

1. Select “Brush Trimming” from the main toolbar on the left.



2. Choose a trimming mode at the bottom of the screen: “Surface Only” or “3D Volume.” “Surface Only” deletes only the data visible from the current view, while “3D Volume” deletes the entire 3D shape within the selected

area.




3. Choose a brush size. Three brush sizes are available. Then, click and drag over the areas you want to delete.

## Manual Noise Trimming

You can manually remove the unnecessary noise data.

> 🔎**Note**
>
> - When this option is off, you can select an area with a brush, but the area is not removed.
> - This feature cannot be used when “3D Volume“ is selected.

1. Click the "Manual Noise Trimming" tool icon at the bottom.




2. Select the brush size at the bottom.



3. Select the areas where noise should be trimmed.

4. The selected area is automatically deleted after selecting the area with the mouse.

## Automatic Noise Trimming

You can automatically trim unnecessary soft tissues such as lips, cheeks, and tongue.

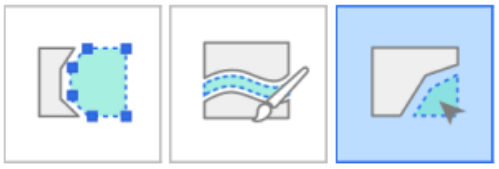
1. Click the "Automatic Noise Trimming" tool icon at the bottom.



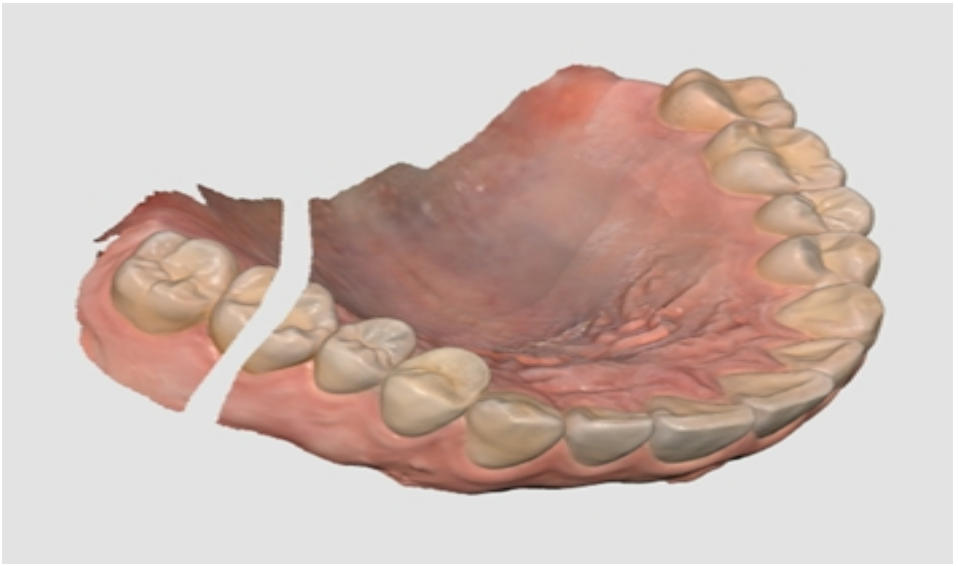

2. The program automatically removes unnecessary soft tissues.

# Quick Trimming

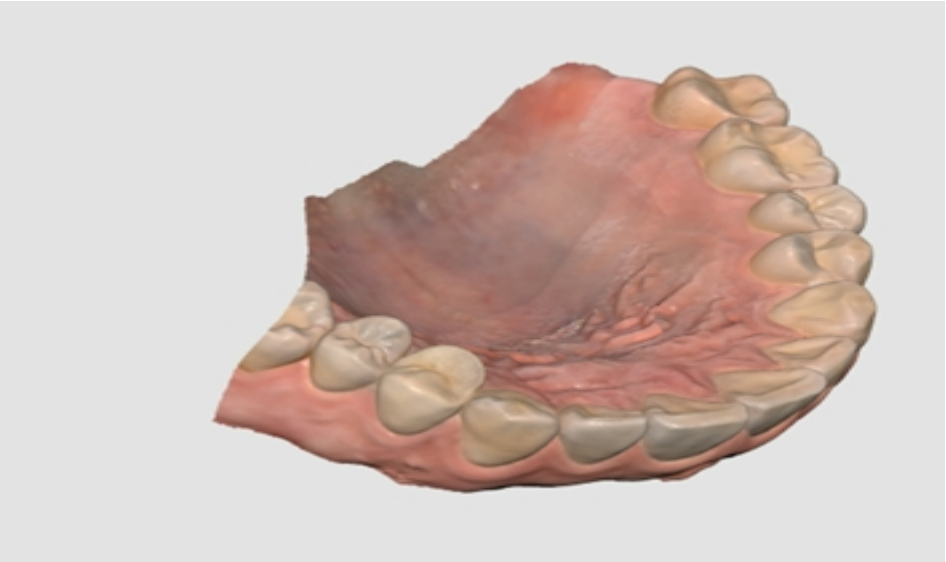
1. Click the "Quick Trimming" from the Trimming tool on the main toolbar.



2. Click on data separated from the rest of the scan data.



3. The isolated area where you clicked is removed as below.



# Function Tools

| | | |
|---|---|---|
|  | Lock Area | Lock a specific area using the selection tools. |
|  | Undercut Analysis | Analyze the undercut area based on the direction of insertion. |
|  | Swap Maxilla and Mandible | Swaps maxilla and mandible scans.<br>This is useful if the operator accidentally scans the wrong jaw. |
|  | Result Preview | Show the preview of the selected area to check the quality of data before actual processing. |
|  | Margin Line | Creates a margin line automatically or manually.<br>The margin line information can also be imported into a design program. |
|  | Smart Data Cleaning | Filter out soft tissue data by removing unreliable data using the Reliability Map. |

| | | |
|---|---|---|
|  | Scan Replay | Replay the scanning process. |
|  | HD Camera | Take 2D images with 3D model data and share the images with a laboratory. |
|  | Register Abutments | Register an abutment in the library by scanning it yourself or importing it.<br>Once registered, you can use it for Abutment Library Matching. |
|  | Smart Shade Guide | Provide smart shade recommendations. |

If you select one of the above function tools on the Main Toolbar, the following selection tools are shown at the bottom to work on the function.

| | | |
|---|---|---|
|  | Polyline Selection | Select all entities within a polyline shape drawn on the screen. |
|  | Circle Selection | Select all entities within a circular area. |
|  | Brush Selection | Select all entities on a freehand-drawn path on the screen.<br>The brush comes in three different sizes. |
|  | Smart Single Tooth Selection | Automatically select the area of a single tooth with a click. You can click or drag on the tooth.<br>* This tool is useful for Lock Area, Margin Line, Preparation Review, and Smart Scan Review. |

| | | |
|---|---|---|
|  | Selection | Enable the selection mode to select areas using the selection tools above. |
|  | Deselection | Enable the deselection mode to unselect areas using the selection tools above. |
|  | Clear All Selection | Clear the entire selection. |
|  | Confirm | Apply the results for the selected tool. |

## Lock Area

You can lock a specific area using the selection tools so that further scanning cannot affect the shapes of the locked area but the color.

> 🔎**Note**
>
> This feature is useful when preserving the retracted gingiva data scanned after cord removal.

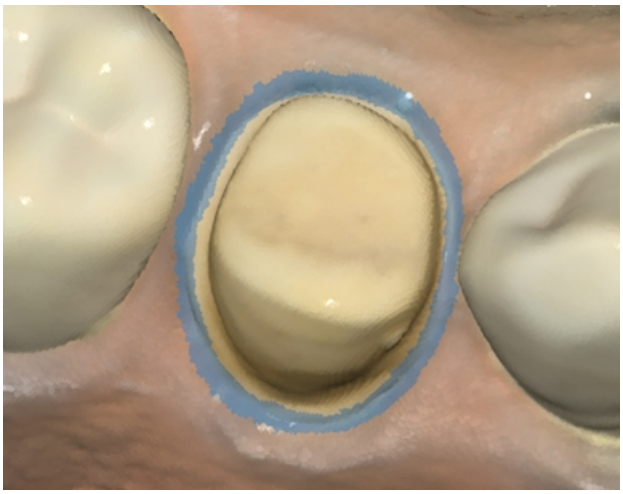
1. Click "Lock Area" from the Main Toolbar.



2. Select an area to lock with area selection tools.



3. Select the area you want to lock. The selected area is presented in a different color.



You can unlock the locked area by doing one of the following:

1. Click the "Deselection" tool icon to switch to the deselection mode, select a selection tool, and mask the areas to unlock.




2. Click the "Clear All Selection" tool icon to unlock all locked areas.




## Undercut Analysis

Analyze the undercut area based on the direction of insertion. The insertion direction can be determined by Auto Direction or Manual Direction.

| | | |
|---|---|---|
|  | Auto Direction | The system automatically calculates the direction in which the undercut area is minimized. Then, it displays the undercut area on the View Screen. |
|  | Manual Direction | The system calculates the undercut area based on the view direction of the user. The user can change the view direction by moving or rotating the data. Then, it displays the undercut area on the View Screen. |

# Undercut Analysis with Auto Direction

1. Click the "Undercut Analysis" tool icon from the Main Toolbar.



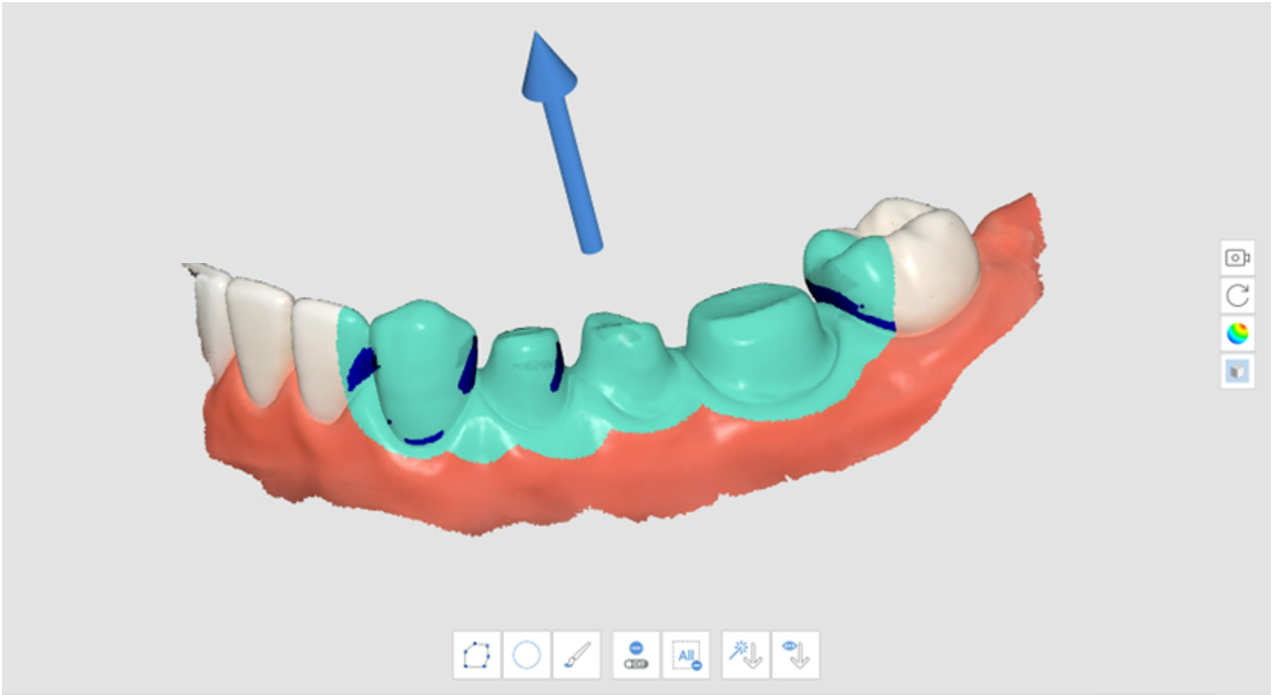
2. Select the region of interest to calculate the undercut area with area selection tools.



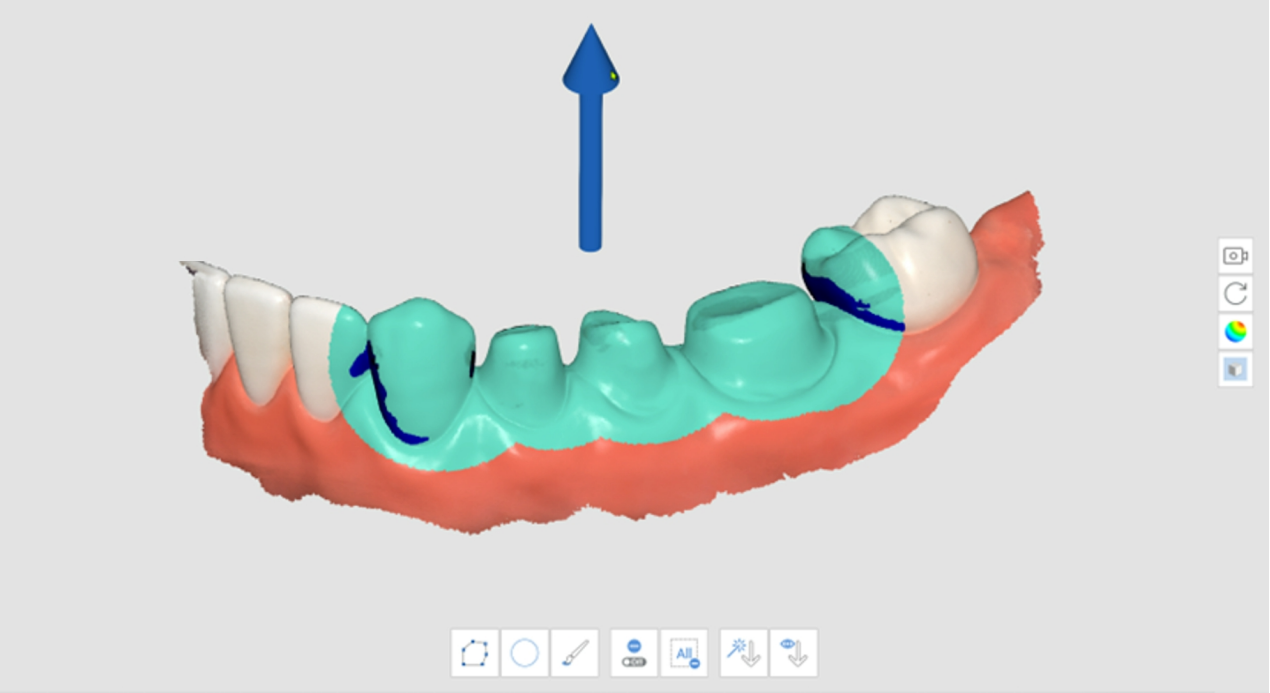
3. If no area is selected, the program will calculate the undercut area for the entire 3D model in the data display area.
4. Click the "Auto Direction" icon at the bottom.



5. An insertion path arrow appears in the direction where the undercut area is minimized, and the undercut areas are presented in dark blue.



6. You can change the direction of the insertion path by left-clicking and dragging the arrow.



## Undercut Analysis with Manual Direction

1. Click the "Undercut Analysis" tool icon from the Main Toolbar.



2. Select the region of interest to calculate the undercut area with area selection tools.
3. Use the "Move," "Rotate," "Zoom In," and "Zoom Out" tools on the Side Toolbar to change the model's direction.
4. Click the "Manual Direction" icon at the bottom.



5. An insertion path arrow appears in the direction of the user's viewpoint.
6. You can change the direction of the insertion path by left-clicking and dragging the arrow.

# Swap Maxilla and Mandible

When the mandible is scanned in the maxilla scan stage by mistake or vice versa, you can correct it using this feature.

1. Click the "Swap Maxilla and Mandible" tool icon from the Main Toolbar



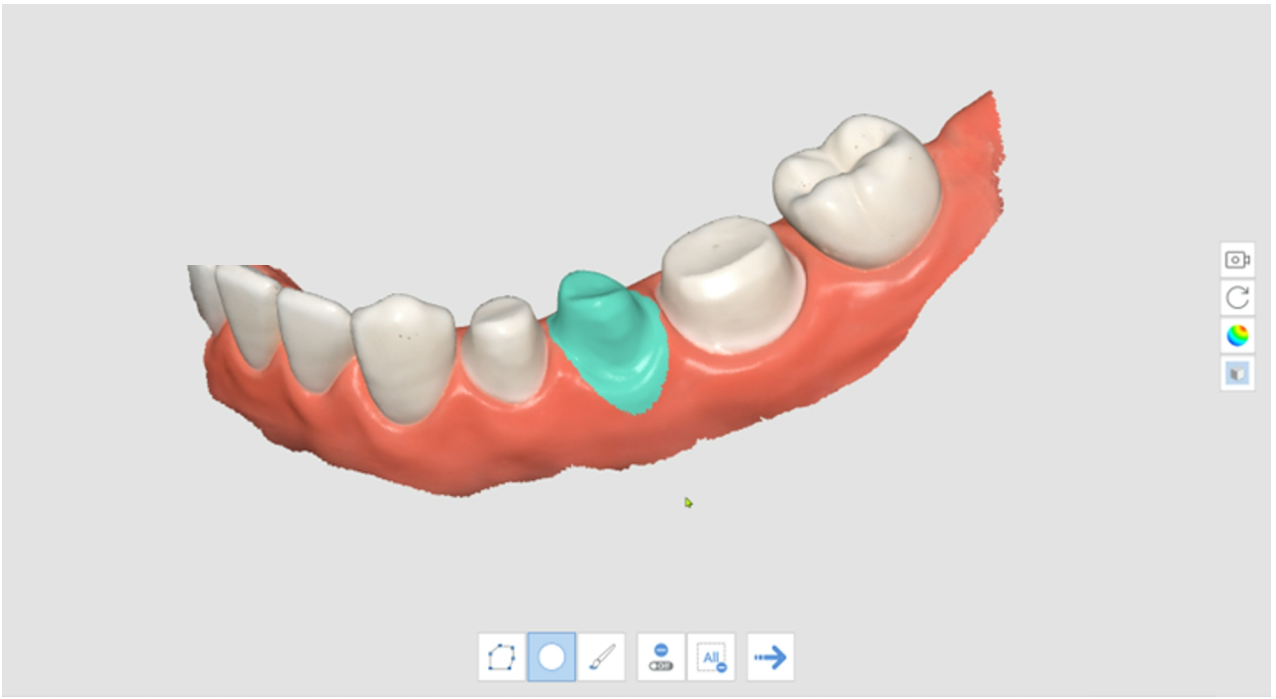
2. The current data at the Maxilla and Mandible stages are swapped.

# Result Preview

1. Click the "Result Preview" tool icon from the Main Toolbar.



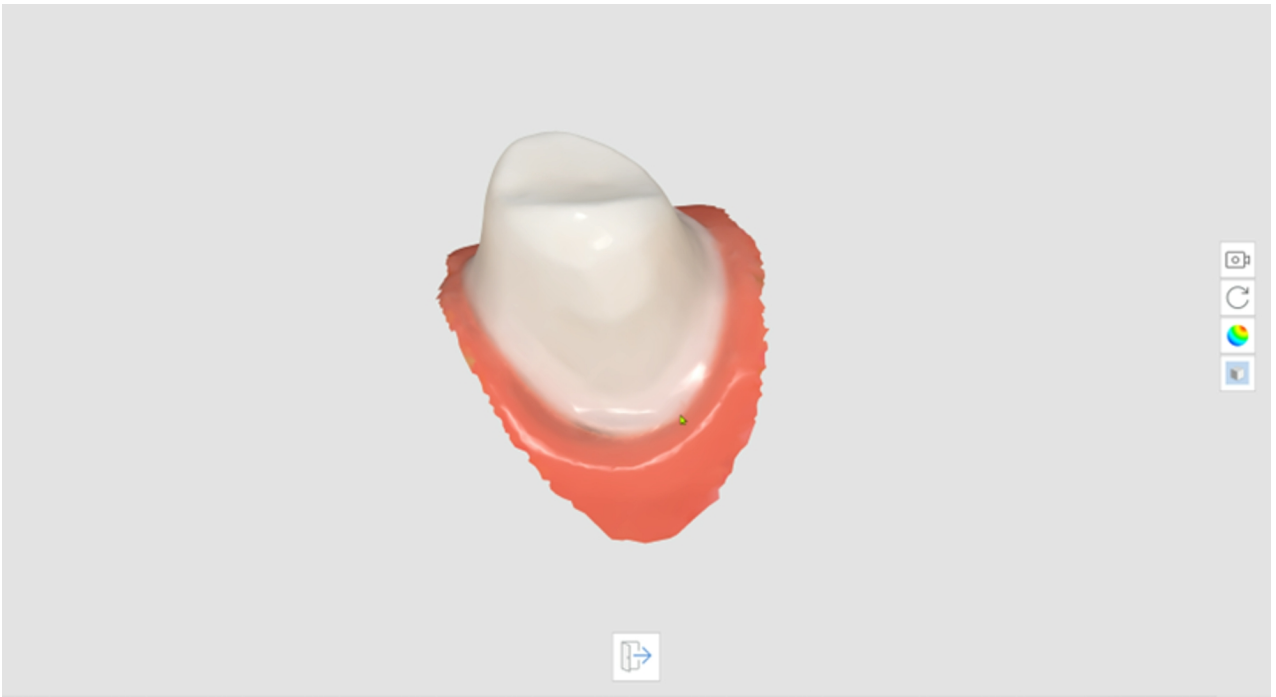
2. Select an area to preview with area selection tools.



3. Click "Next Step" to view the result.



4. Preview the results.

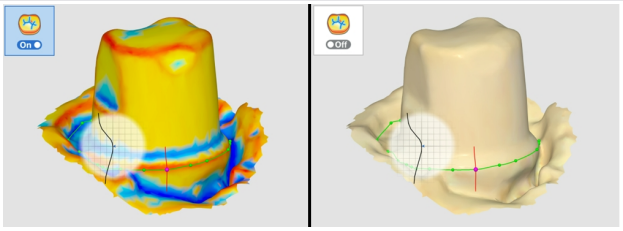
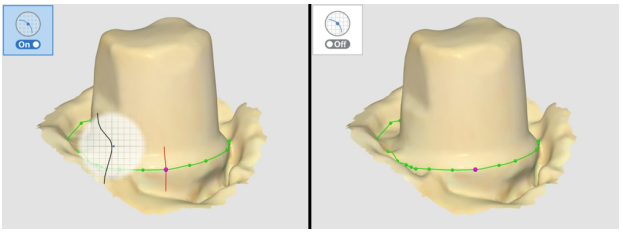


5. Click "Exit" at the bottom to go back to the previous step.

# Margin Line

The following tools are provided for the Margin Line feature.

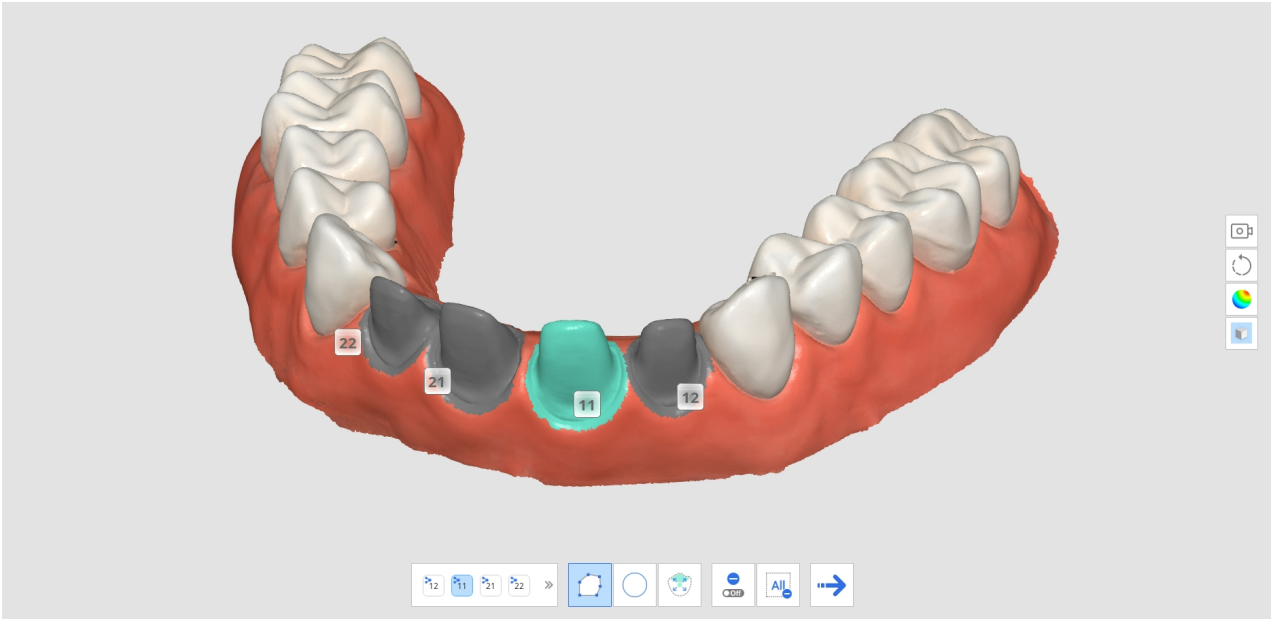
| | | |
|---|---|---|
|  | Auto Creation | Create a margin line automatically based on the points selected by the user.<br>By selecting multiple points, a closed margin line will be created. |
|  | Dynamic View Change | Turn this option on to automatically rotate data according to the view direction. |
|  | Manual Creation | Create a margin line manually according to the points selected by the user.<br>Upon completing a closed curve by manually adding control points, a margin line is created. |
|  | Edit | Enable editing the margin line.<br>The user can add, move, and remove the control points of a margin line. |
|  | Delete | Delete the margin line. |
|  | Curvature Display Mode | Measure the surface curvature of data to display the data in different colors through a color map. |
|  | Section View | Show the cross-section of the area where the mouse pointer is located. |

| Curvature Display Mode | Section View |
| --- | --- |
|  If the color is redder, it is more embossed, and if the color is bluer, it is more engraved. You can use the color expression interval slider to adjust the color radius. |  It prevents any areas from being hidden when zoomed in closely and allows you to check the magnified margin more carefully. |

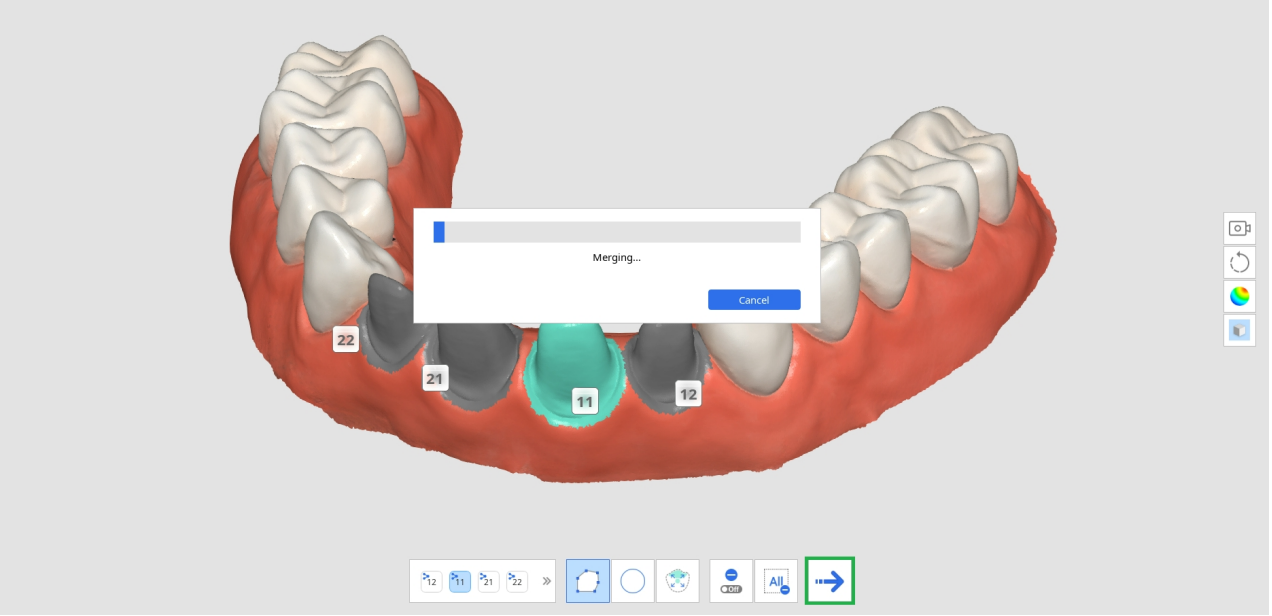
1. Click the "Margin Line" tool icon from the Main Toolbar.



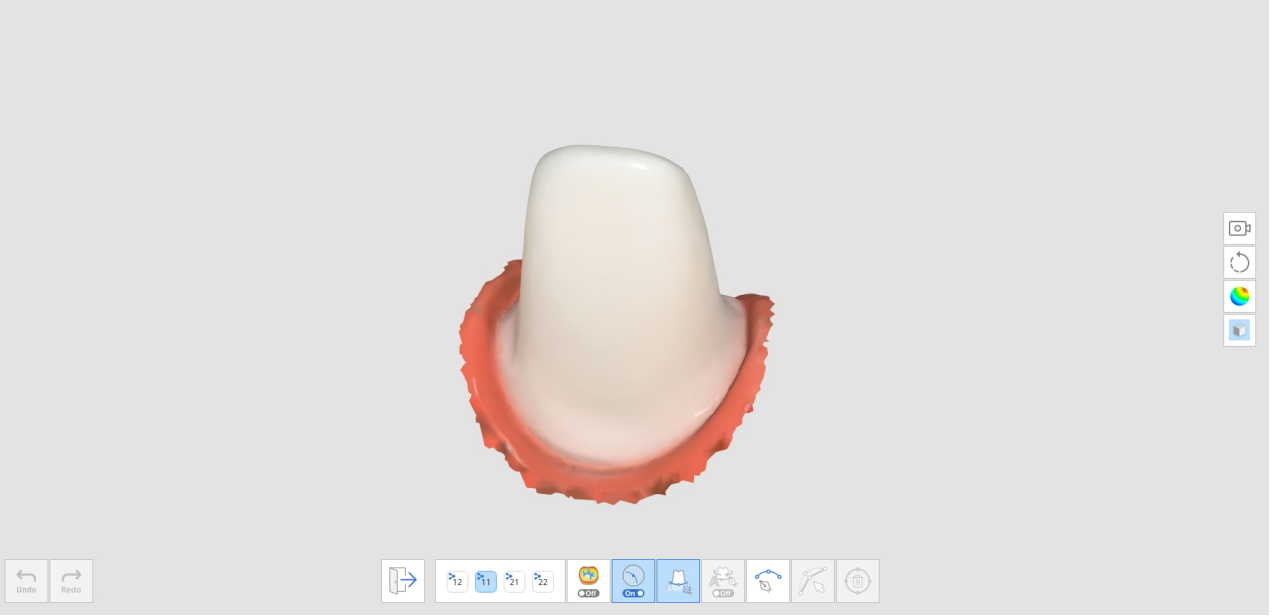
2. Select the Maxilla or Mandible stage.
3. Select a tooth number.
4. Select an area for the selected tooth number with area selection tools, and click the "Next Step" icon.



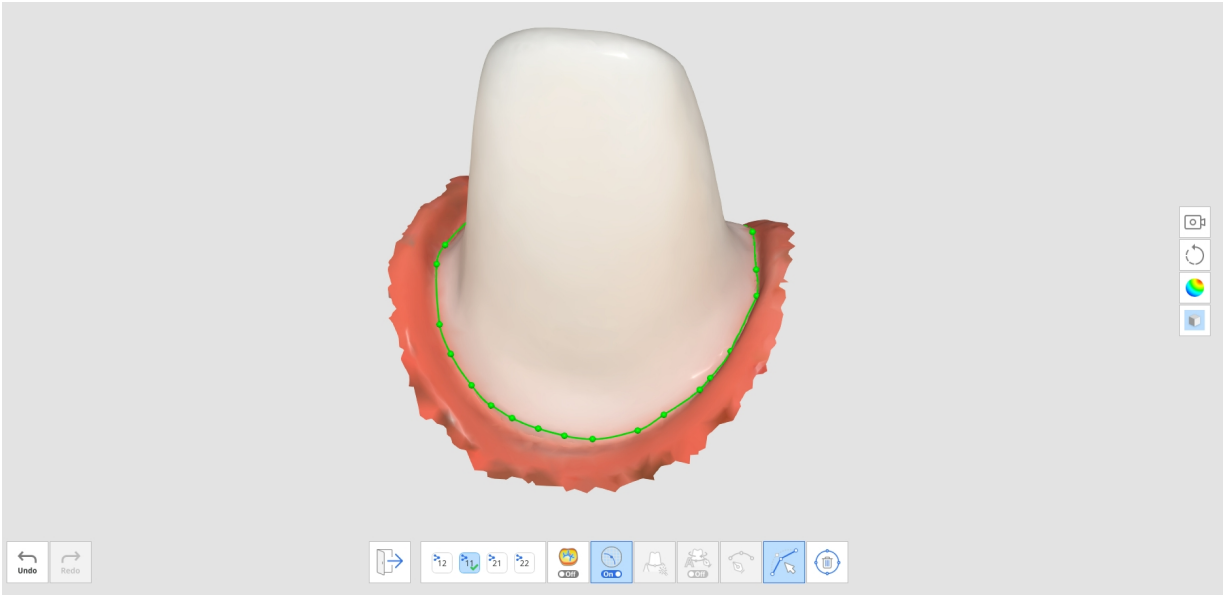

5. Click the "Next Step" icon.



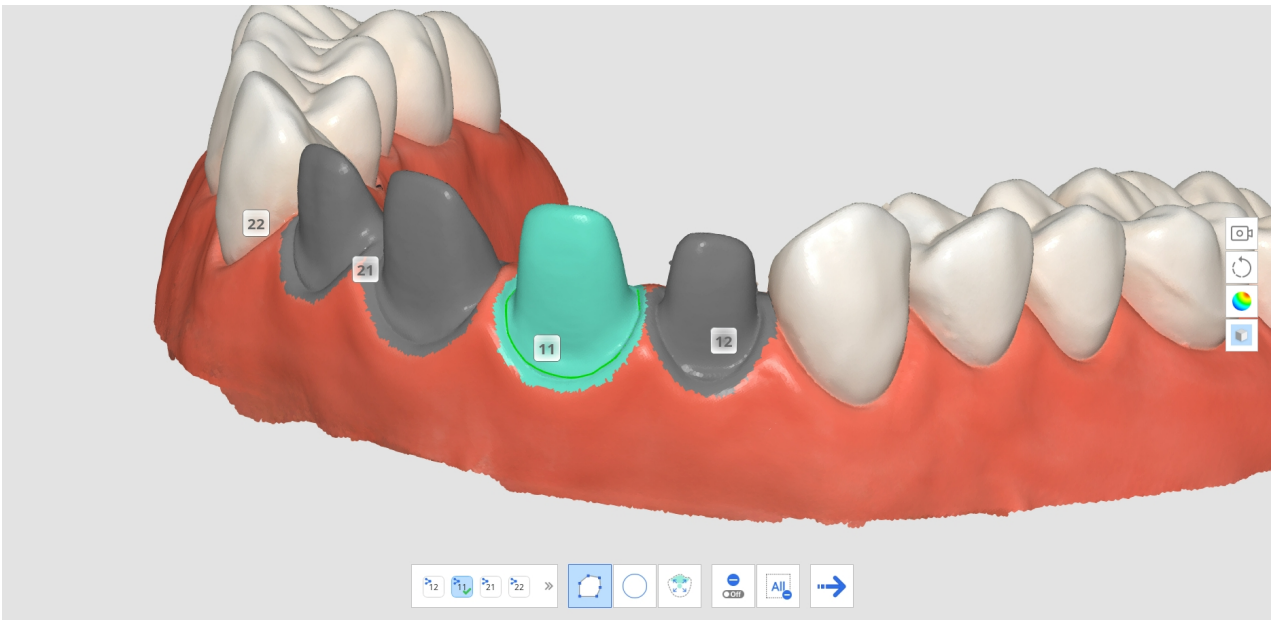

6. The system generates a temporary result with the selected area. You can create a margin line using this result data.



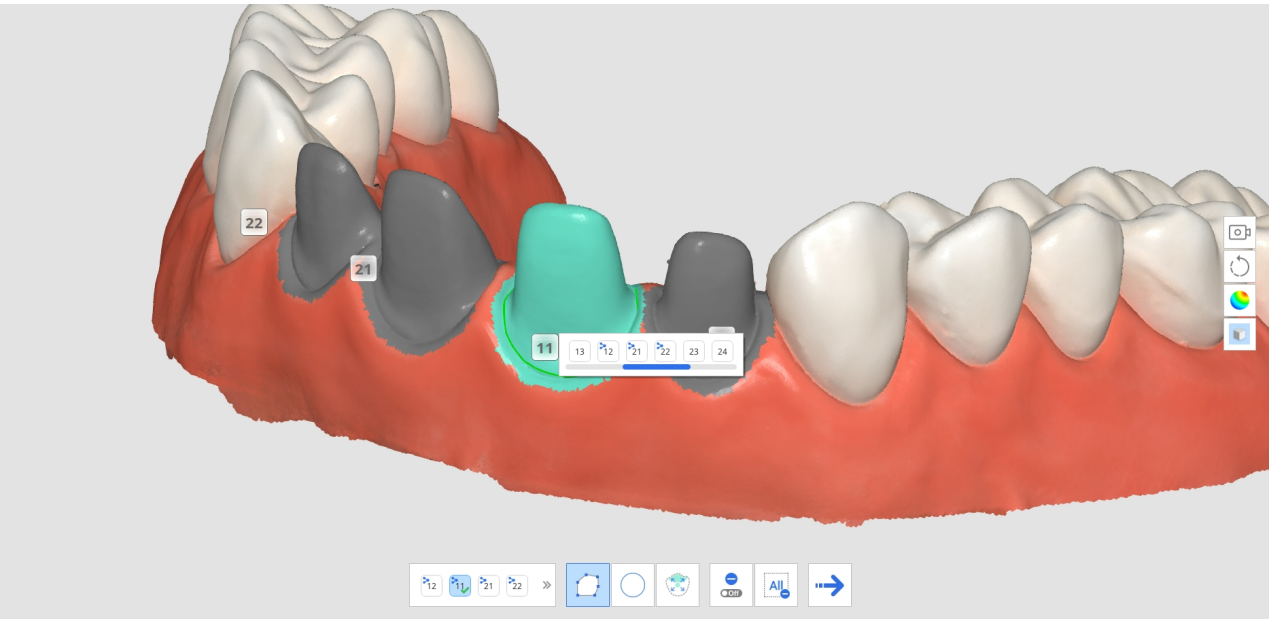
7. Click the "Auto Creation" or "Manual Creation" icon to draw the margin line.
    a. Auto Creation: Click the "Auto Creation" icon and select points. Then, the margin line will be automatically created based on your selected control points.
    b. Manual Creation: Click the "Manual Creation" icon and mark points along the margin line using the left mouse button to link each point to the next. Hold and move the mouse to fine-tune the position of the point on the Section View.



8. You can make adjustments by clicking the "Edit" icon.
    - Add a control point: left-click on the margin line
    - Remove a control point: right-click on a control point
    - Move a control point on the 3D model: left-click on a control point and drag
    - Move a control point on the section: left-click and hold for 1 sec on a control point and then drag
9. Click "Exit" to show the margin line with the tooth number.



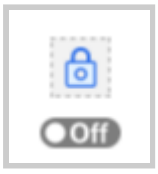
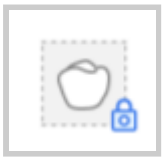
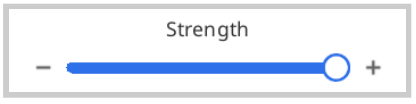

10. You can change the tooth number for a margin line by clicking a tooth number on the 3D model view and selecting a target number from the pop-up window.

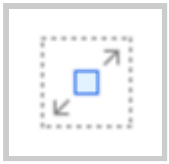
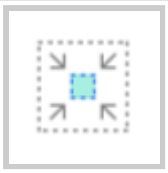
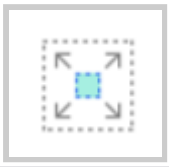
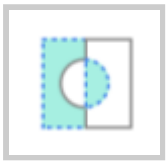



11. Repeat steps 3-9 to draw margin lines for other teeth.

## Smart Data Cleaning

The following tools are provided for the Smart Data Cleaning feature.

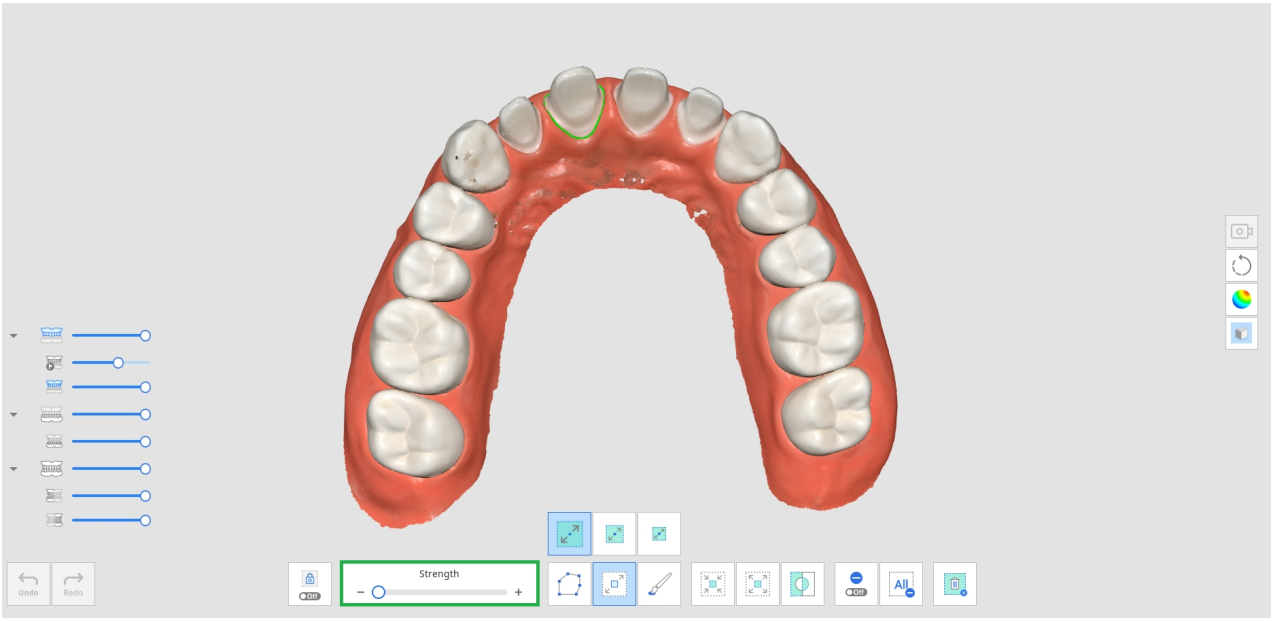
| | | |
|---|---|---|
|   | Make Area Edit-Proof | Enable the user to select the area they want to protect from editing.<br>• When on, the selected areas are protected from deletion.<br>• When off, the selected areas are the target for deletion. |
|  | Select Teeth Area | Select only the teeth area in the scan data.<br>* This option is only enabled when the Make Area Edit-Proof option is turned on. |
|   | Strength | Select the data with a slider bar. You can easily select and remove the soft tissue using the reliability map.<br>• Increasing the strength expands selected areas.<br>• Adjusting the slider bar changes the selected areas in real-time. |

| | | |
|---|---|---|
|  | Flood Fill Selection | Select all data in the connected area. |
|  | Shrink Selected Area | Reduce the selected area each time the user presses the button. |
|  | Expand Selected Area | Expand the selected area each time the user presses the button. |
|  | Invert Selected Area | Invert the selection of area.<br>The selected area will be deselected, and the previously not selected area will get selected. |
|  | Delete Selected Area | Delete the data in the selected area. |

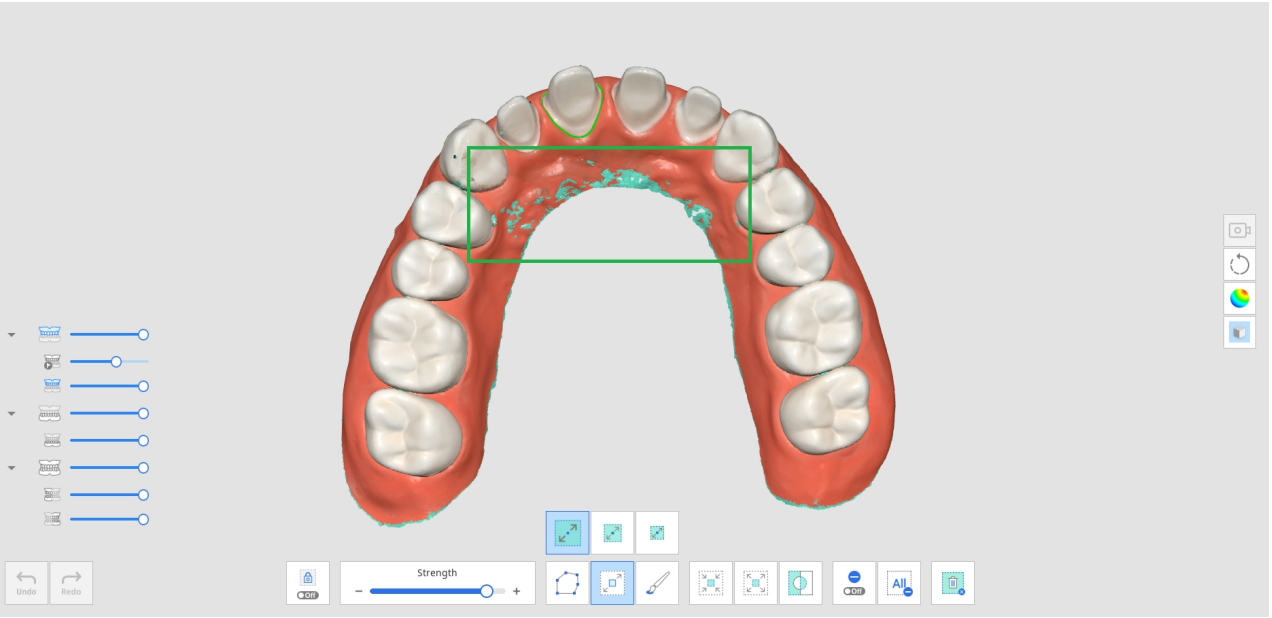
1. Click the "Smart Data Cleaning" tool icon from the Main Toolbar.



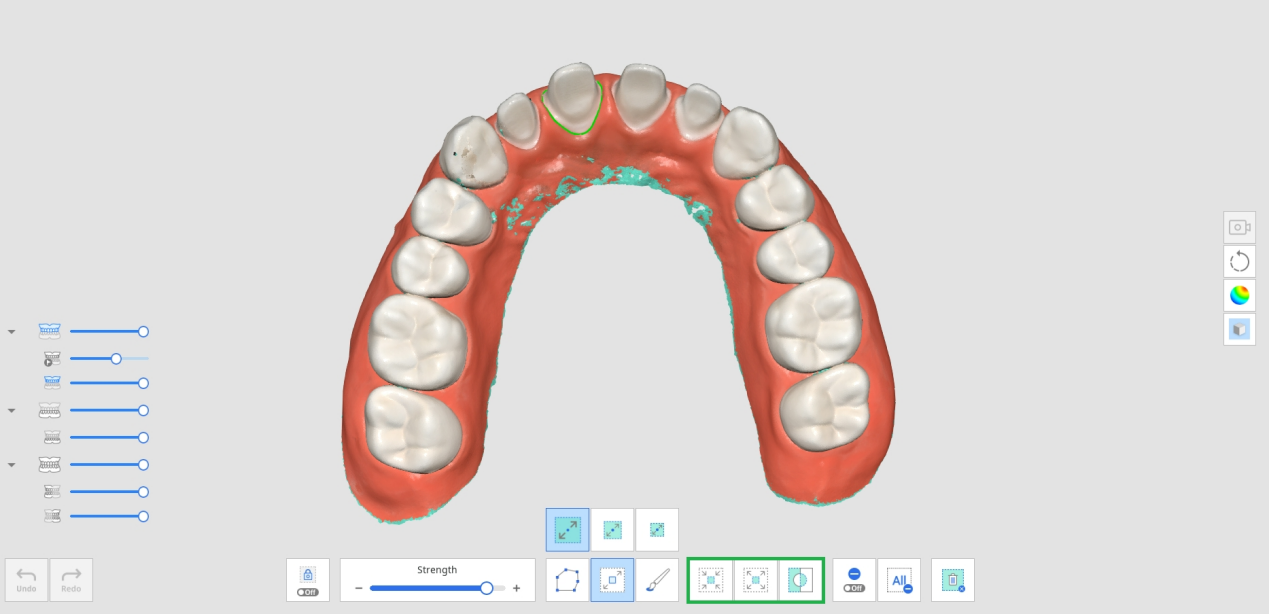
2. Adjust the "Strength" slider bar to select the amount of unreliable data to delete. The system selects data based on the reliability map and shows it in real time as you adjust the slider bar.



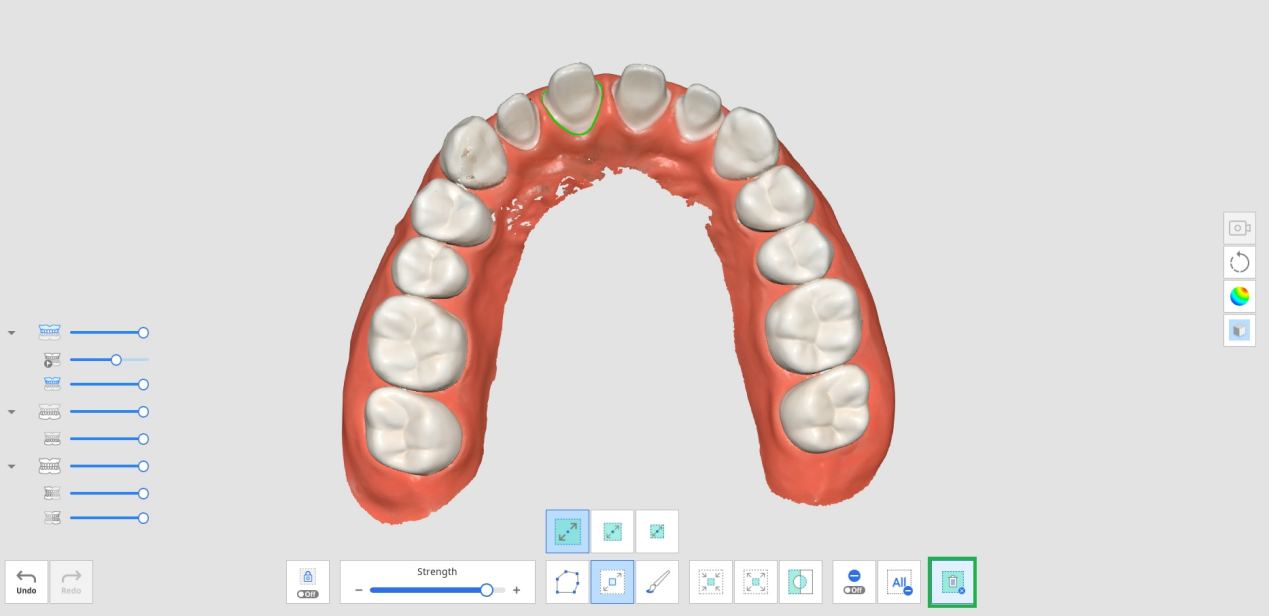

3. Increasing the strength will expand selected areas.




4. Select areas you want to delete with various selection tools.




5. Click the "Delete Selected Area" icon to delete all selected areas.



# Scan Replay

You can replay your scanning process after scanning data in Medit Scan for Clinics. This feature is helpful for checking the scanning environment and habits of the user.

The following tools are provided for the Scan Replay feature.

| | | |
|---|---|---|
|  | Scanner Tip | Show or hide the scanner tip during replay. |
|  | Scan Area | Show or hide the scanning area during replay. |
|  | Reverse Tip Direction | Change the direction of the tip during replay.<br>* Unavailable with i500, i900 |

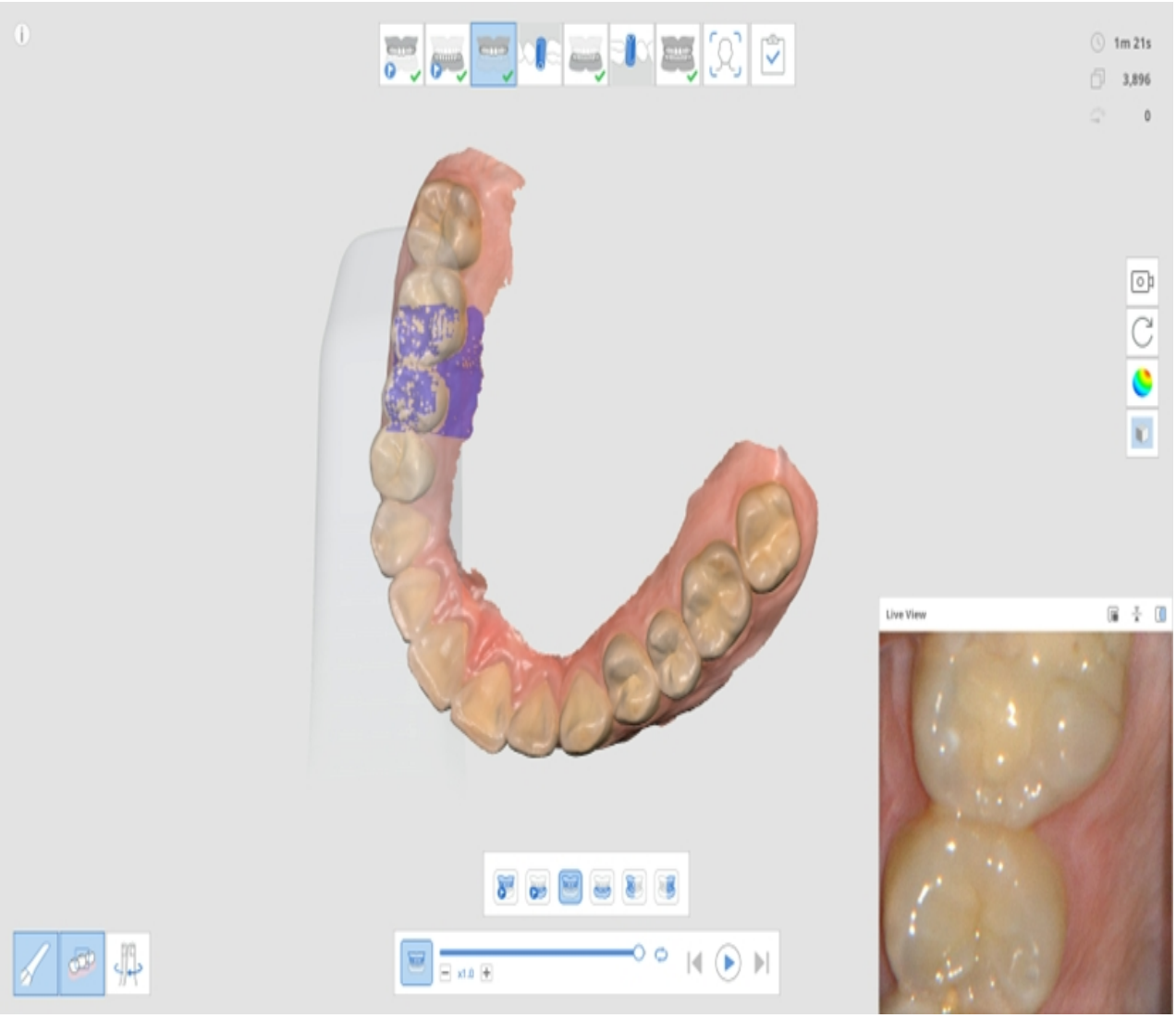
1. Click the "Scan Replay" tool icon from the Main Toolbar.



2. Select the scan replay options in the lower left corner of the screen. The scanner tip and scanning area will be shown in the video, depending on your selection.



3. Click the "Play" button to start the replay.




4. The selected stages will be replayed in sequence.



5. You can use various tools provided to control the video.

| | | |
|---|---|---|
|  | Slider Bar | Start the video from the point of interest. |
|  | Video Speed | Change the speed (x0.5, x1.0, or x3.0). |
|  | Repeat | Play on repeat. |
|  | Previous Replay | Replay the scan of the previous stage. |

| | | |
|---|---|---|
|  | Play | Start playing the scan replay. |
|  | Stop | Stop the scan replay. |
|  | Next Replay | Replay the scan of the next stage. |

# HD Camera

1. The HD camera feature takes high-quality images using the scanner.
2. Select the "HD Camera" tool icon from the Main Toolbar.



3. The HD Camera dialog appears.
4. Place the scanner tip on the region of interest.
5. Press the Scan button on the handpiece to take a picture.




6. You can rename an image by clicking on the image and entering the new name.
7. You can share, export, or delete the image using the following tools provided at the bottom of the dialog.

| | |
|---|---|
|  | Export the selected files to the local computer. |

| | |
|---|---|
|  | Share the selected image or stop sharing the image. |
|  | Delete the selected image. |
|  | Change the view style of a thumbnail. |

8. The captured images are saved to Medit Link as attachments when you exit Medit Scan for Clinics after saving the changes.

# Register Abutments

You had to receive custom abutment files created by table top scanners in labs or even make unnecessary cases to scan the abutment and create 3D data, making it difficult to get proper use out of "Abutment Library Matching."

The Register Abutments feature allows you to scan the patient's abutment directly in their case and register it as a library. Before the implanted fixture is placed in the patient's mouth, scan the abutment first and register it as a library. Then, you can use "Abutment Library Matching" to replace the scan data with the library data.

> 🔎**Note**
>
> Please refer to **Case and Workflow Examples > Abutment Library Matching** on how to use the registered abutments.

The following tools are provided for the Register Abutments feature.

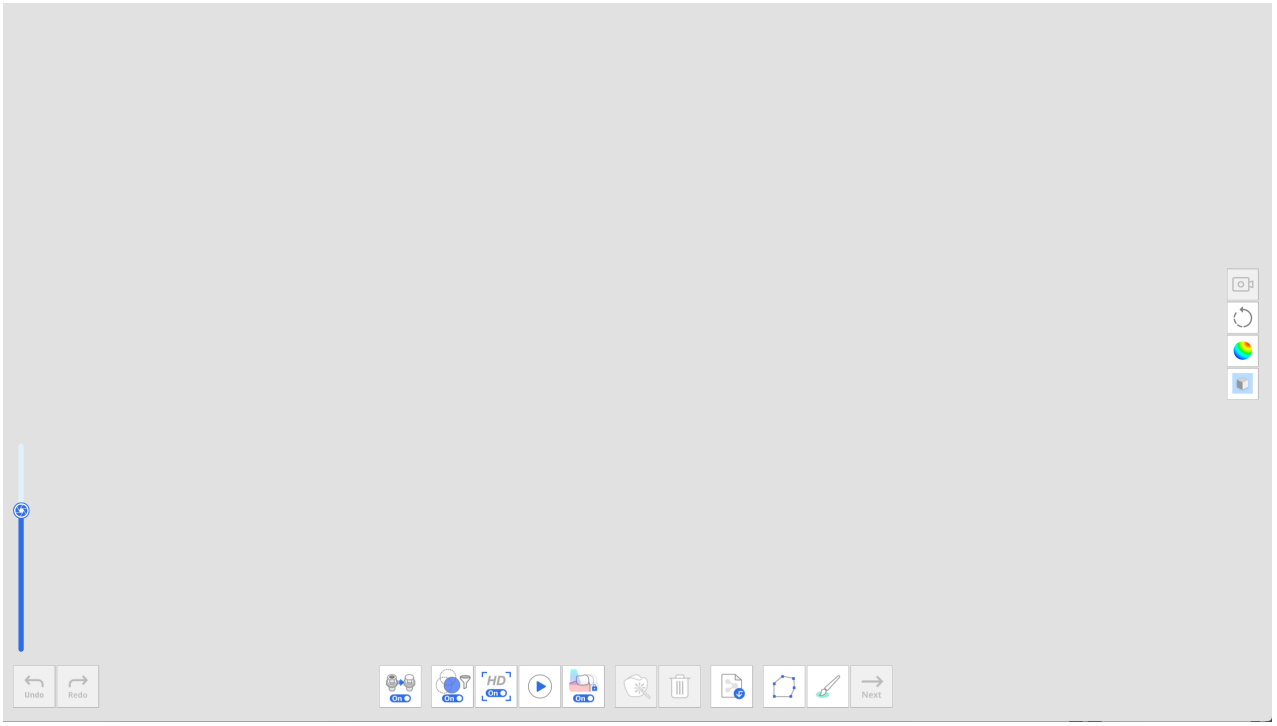
| | | |
|---|---|---|
|  | Add | Add abutments.<br>You can add via scanning or importing. |
|  | Fill Holes for Abutments On/Off | Turn the toggle on and off to fill holes for abutments while merging. |
|  | Merge Abutments | Merge scanned or imported abutments. |
|  | Fill Hole From Your Viewpoint | Fill the abutment's hole from the direction you are looking at. |

| | | |
|---|---|---|
|  | Reset Abutment | Reset to undo any changes made to the abutment. |
|  | Register in Library | Register the merged abutment in the library.<br>It will be used only for that specific case if you check the box. |

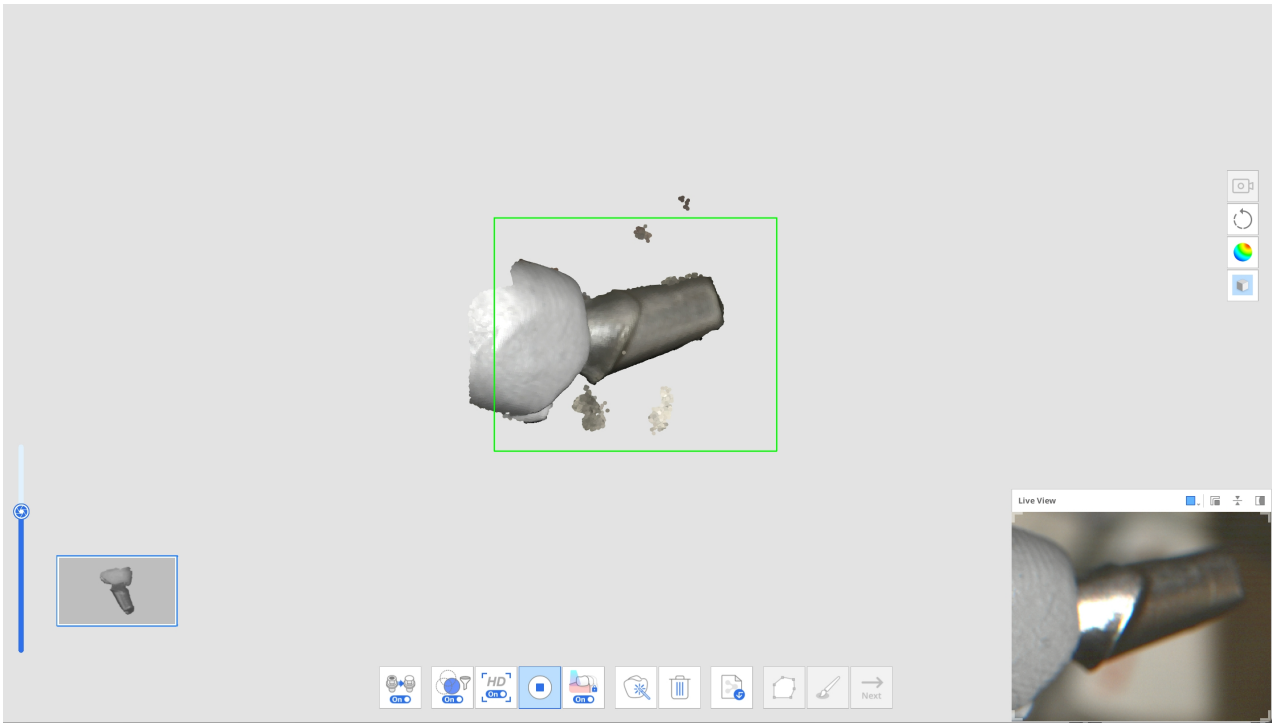
1. Click the "Register Abutment" tool icon on the Main Toolbar.



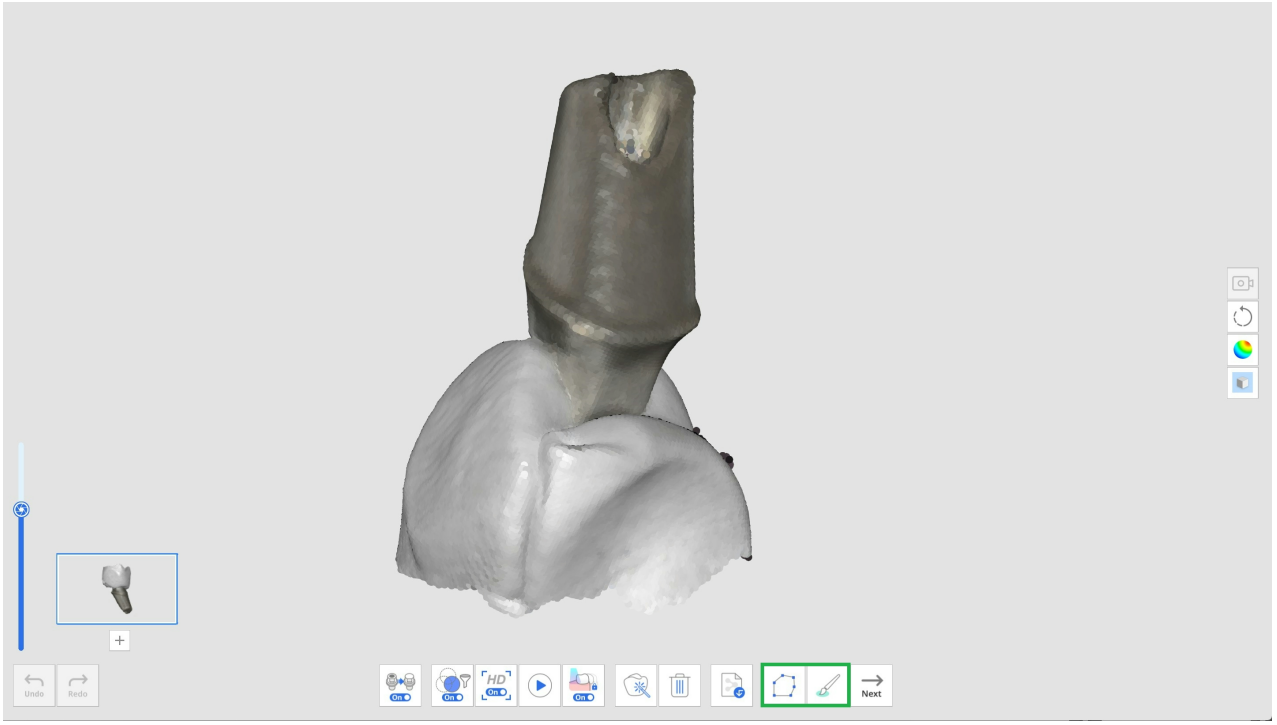
2. You will see the above-described tools at the bottom of the screen.

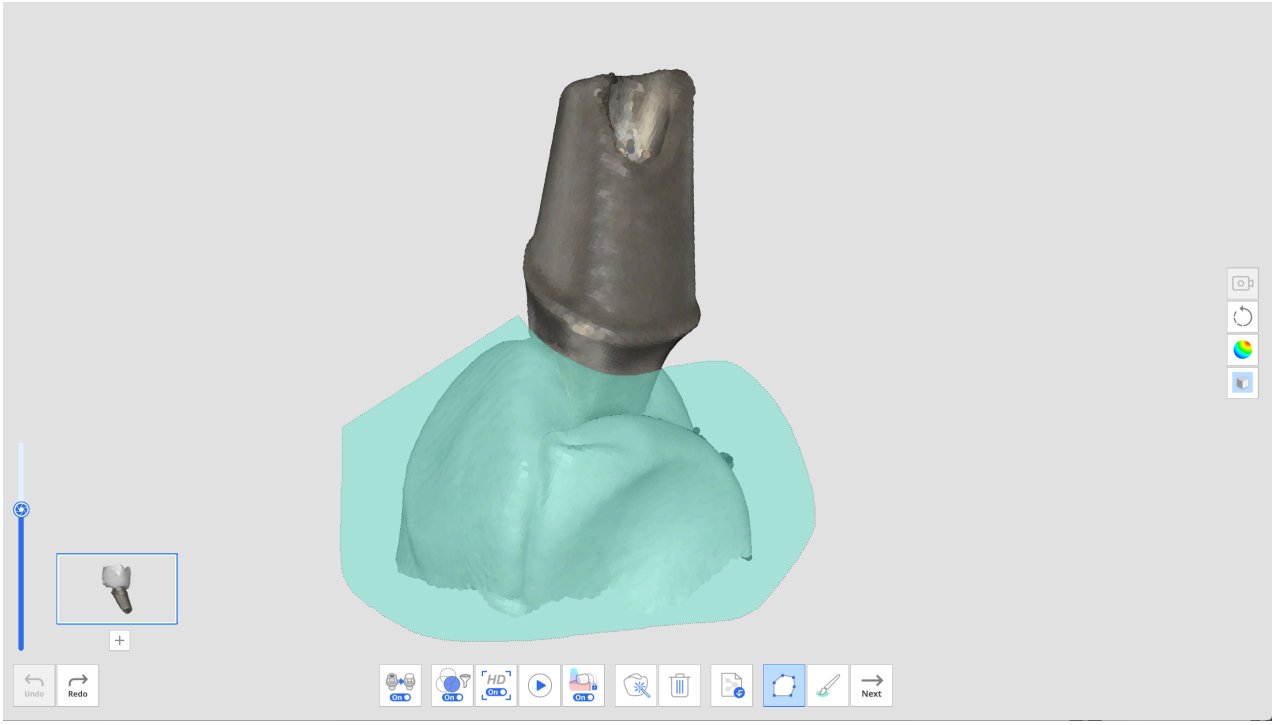



3. Scan the abutment.

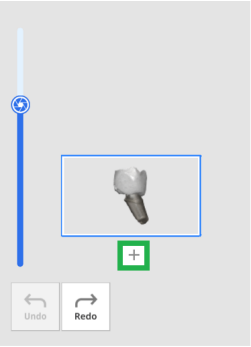



4. You can edit the data using the Polyline and Brush Trimming tools when you stop scanning.

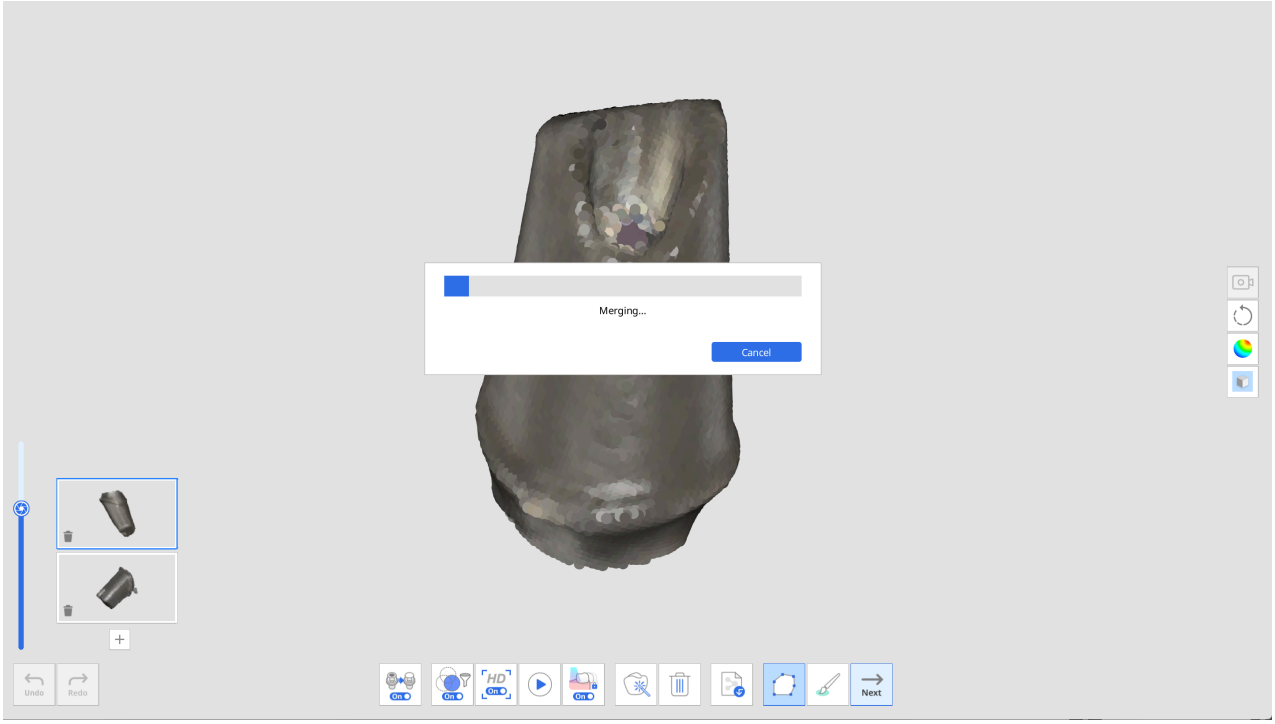





5. Click the "+" button below the abutment thumbnail to scan another abutment. You can scan and register up to 6 abutments.



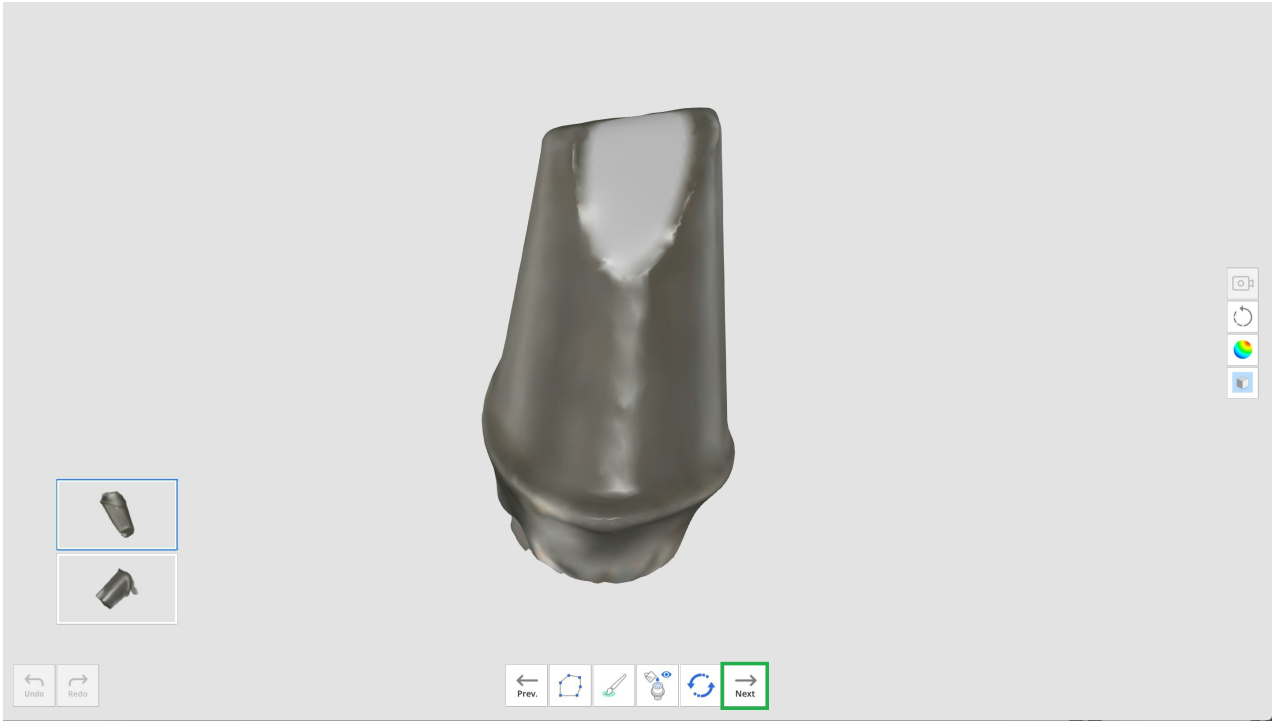

6. After scanning all the abutments, click the "Merge Abutment" button to merge the abutment data for library registration.



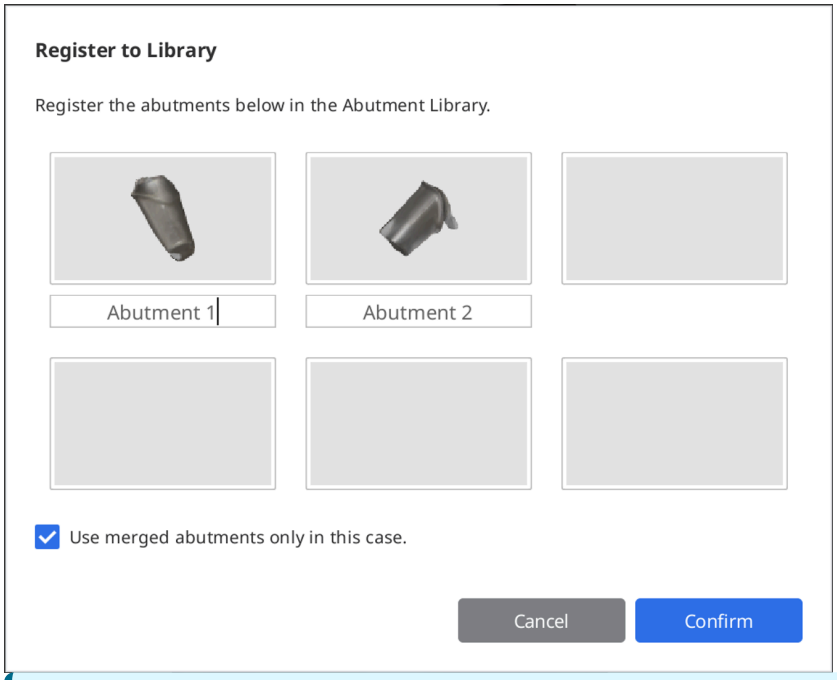
7. When the merge is complete, the abutment is displayed on the screen. You can remove the auto-filled holes or edit the abutment data with Polyline and Brush Trimming tools if necessary.




8. Click the "Next" button when editing is complete.




9. Enter the name of each merged abutment and click "Confirm."

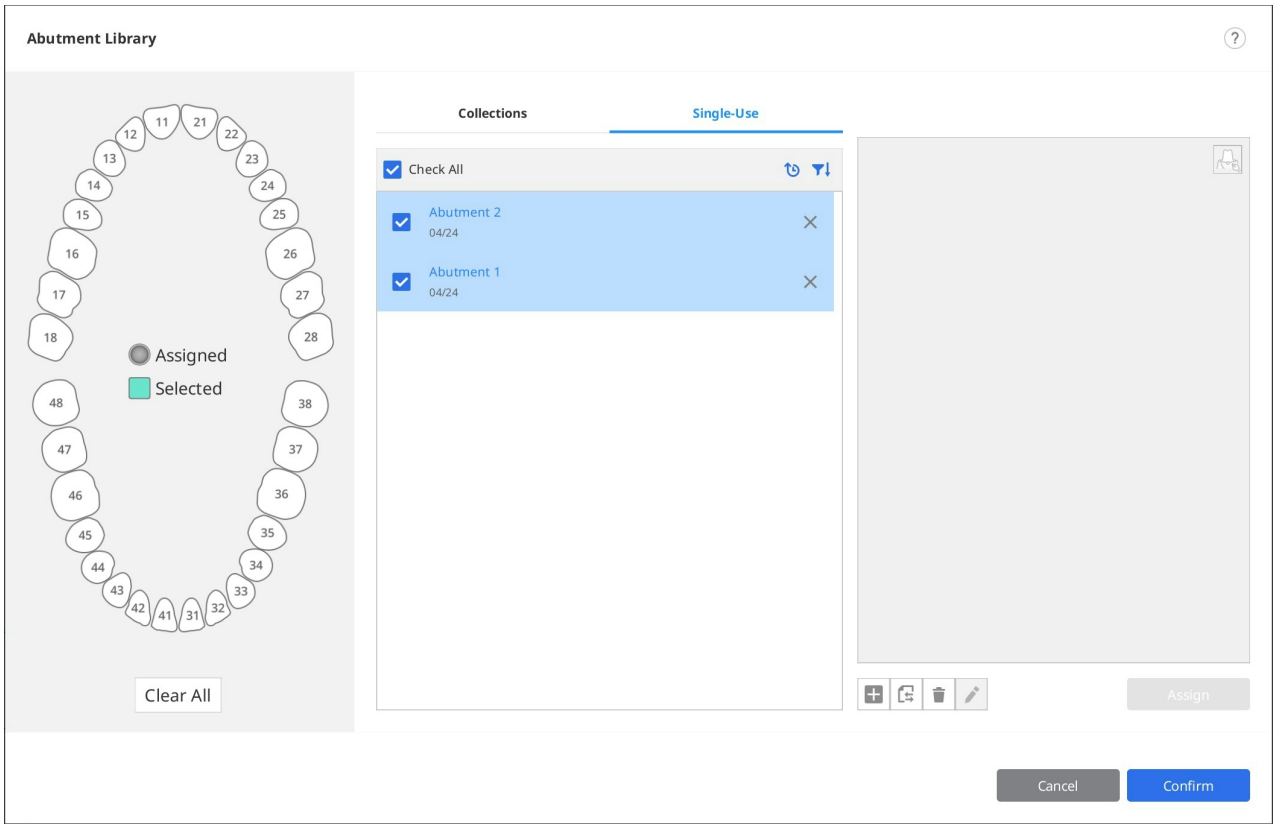



**Note**

If you want to keep and use the abutment libraries for other cases, uncheck the "Use merged abutments only in this case" check box.

Then, the libraries will be registered in the Collections tab instead of the Single-Use tab on the Abutment Library window so you can save and use them in other cases later if needed.

10. Check if your abutments are successfully added to the library when the Abutment Library dialog appears.




11. Click "Confirm" to close the dialog.

# Smart Shade Guide

> **Note**
>
> This feature is unavailable with data acquired with the i500 and iE scanners.

The Smart Shade Guide will recommend the closest shade using data analysis.

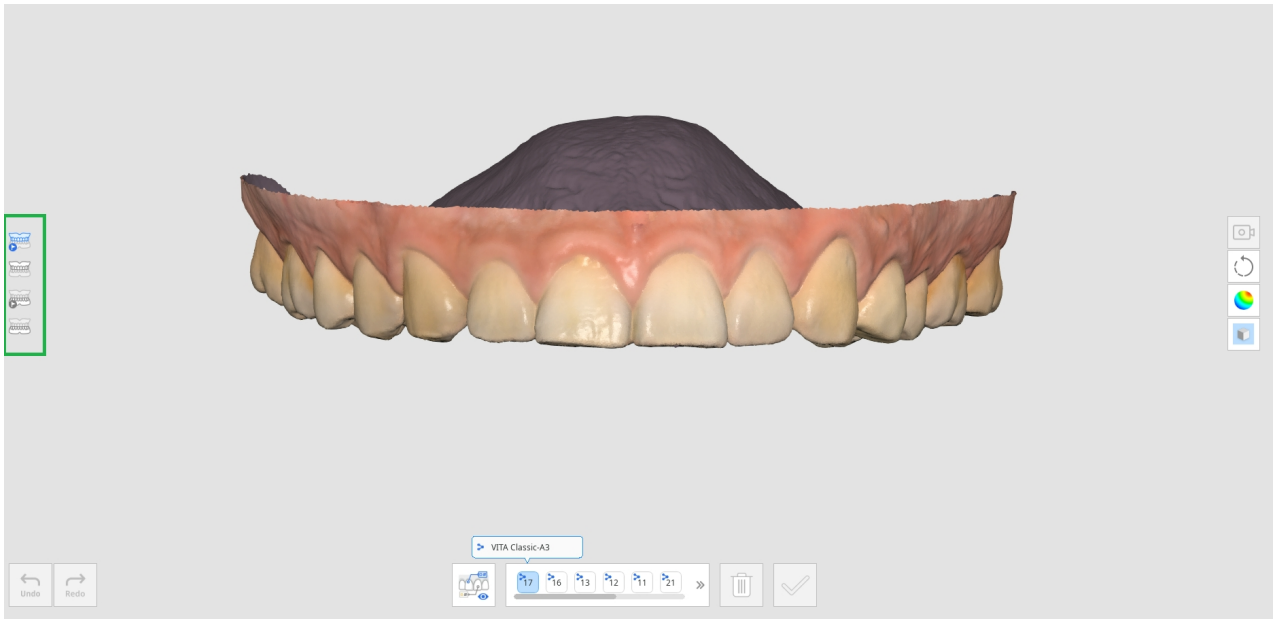
We support the following shade guides:

- VITA Classical
- VITA 3D-Master Shade Guide

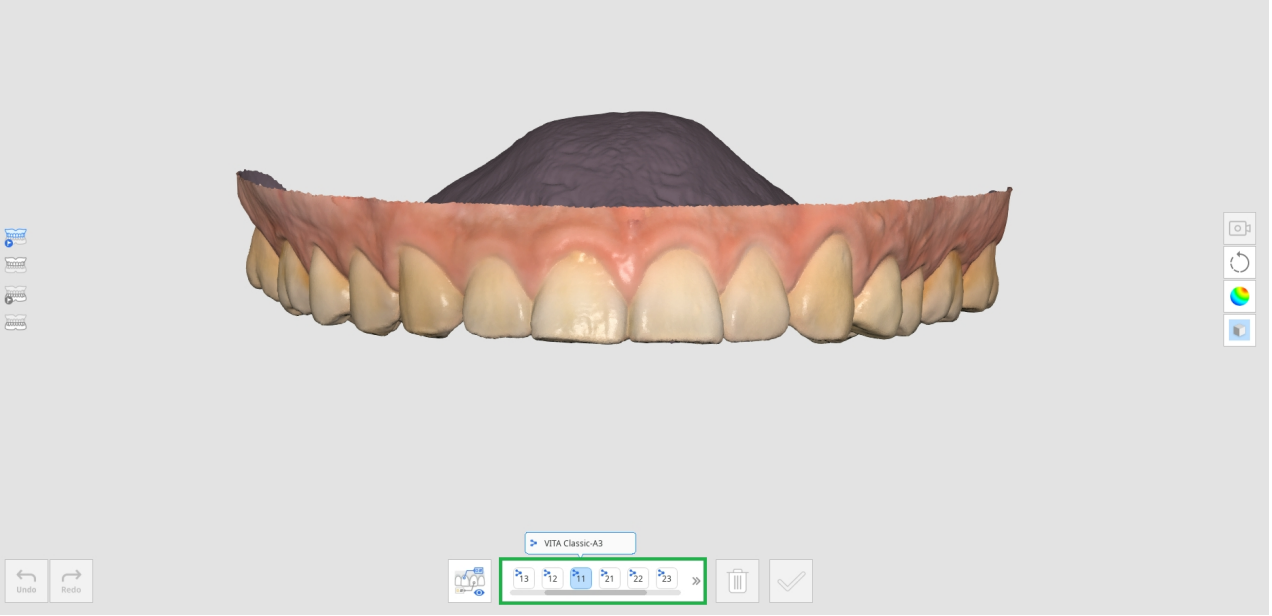
1. After scan data acquisition, click the "Smart Shade Guide" tool icon on the Main Toolbar.



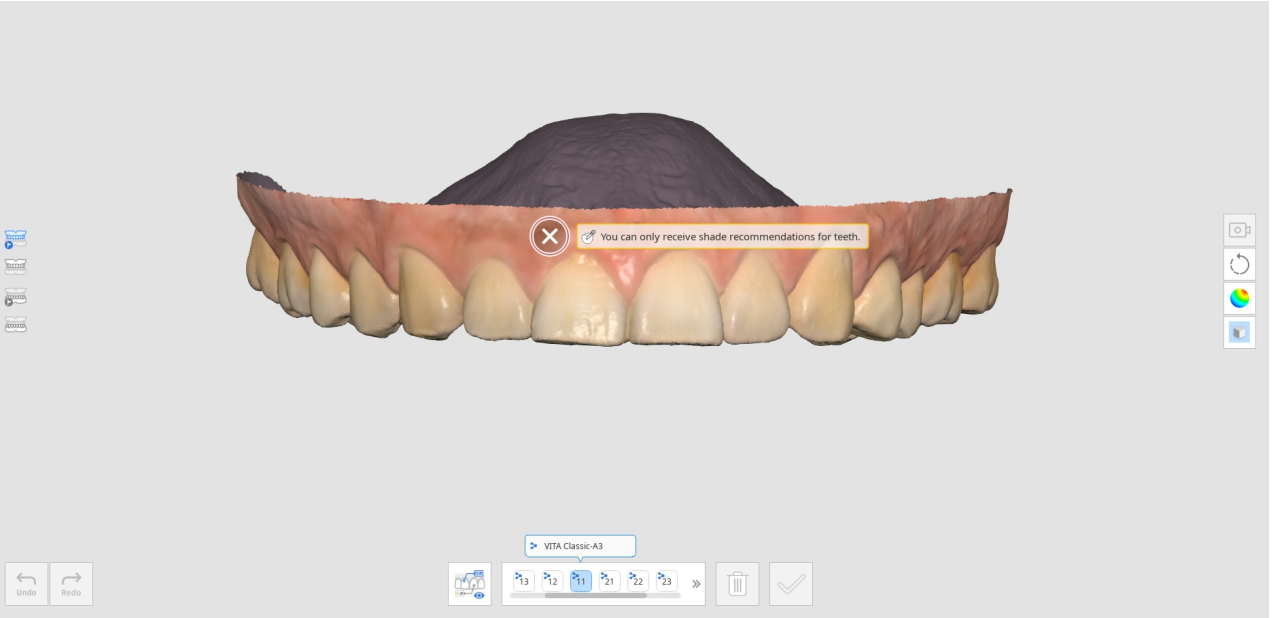
2. Click on the scan step icon on the left side of the screen to select the area for which you want to receive measurements.



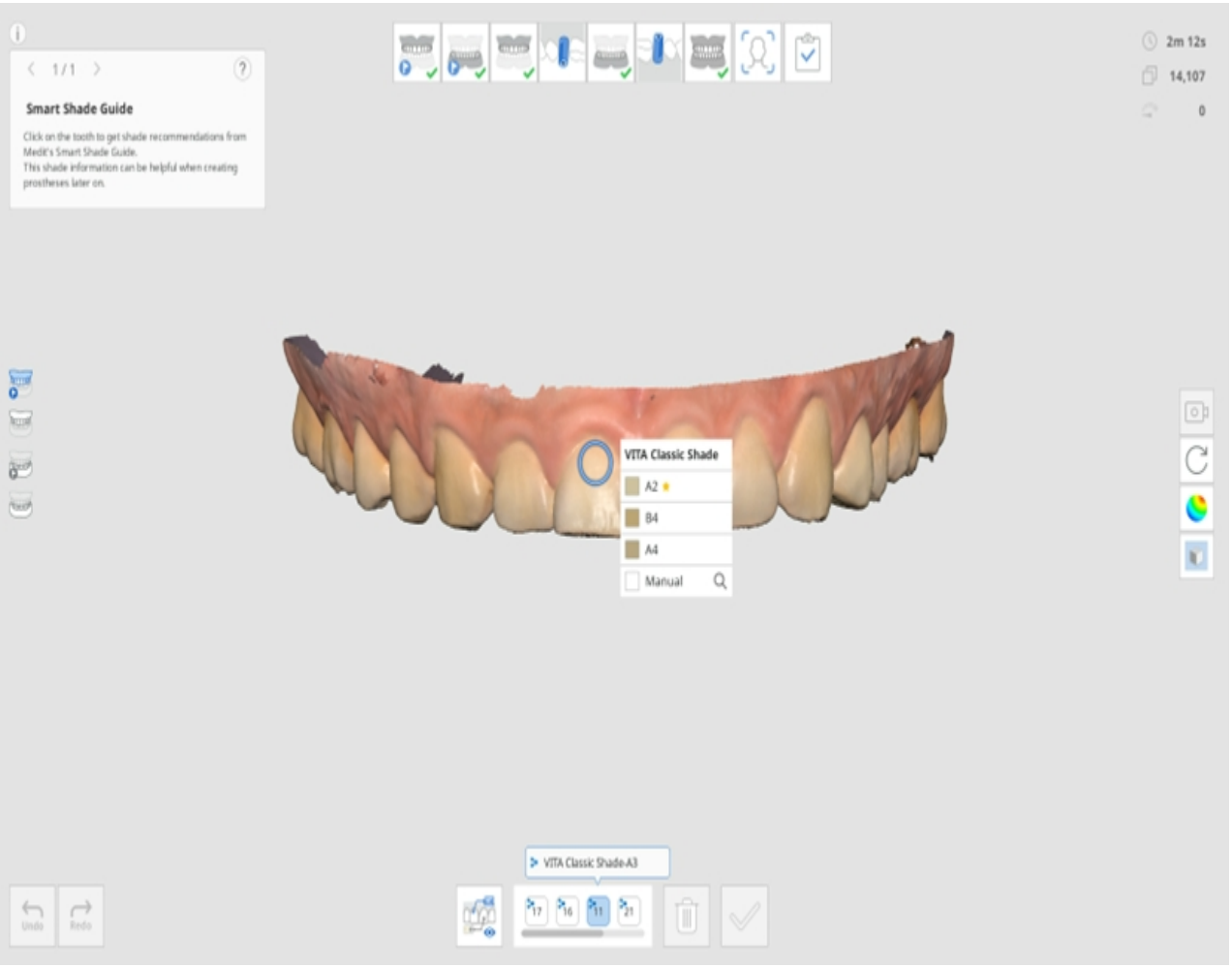

   - Pre-Op for Maxilla
   - Pre-Op for Mandible
   - Maxilla
   - Mandible
   - Maxillary Denture
   - Mandibular Denture
3. Select the tooth number from the list of tooth numbers at the bottom. Clicking on the tooth number will display the shade information registered in Medit Link.



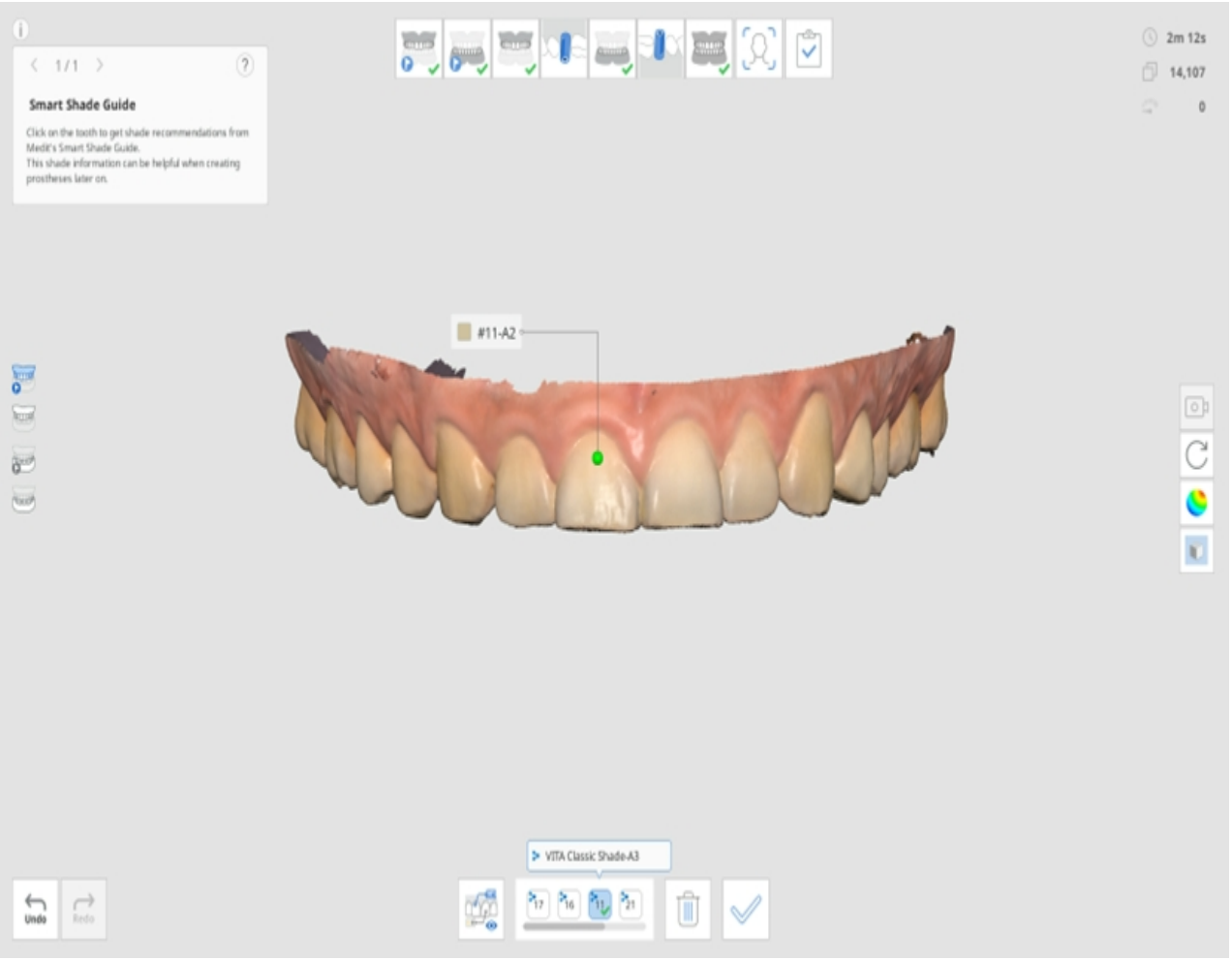

4. When you hover the mouse cursor over the scan data for that tooth, the cursor changes its shape for shade recommendations. If you hover over a non-measurable area, you will be informed that the measurement is not feasible.



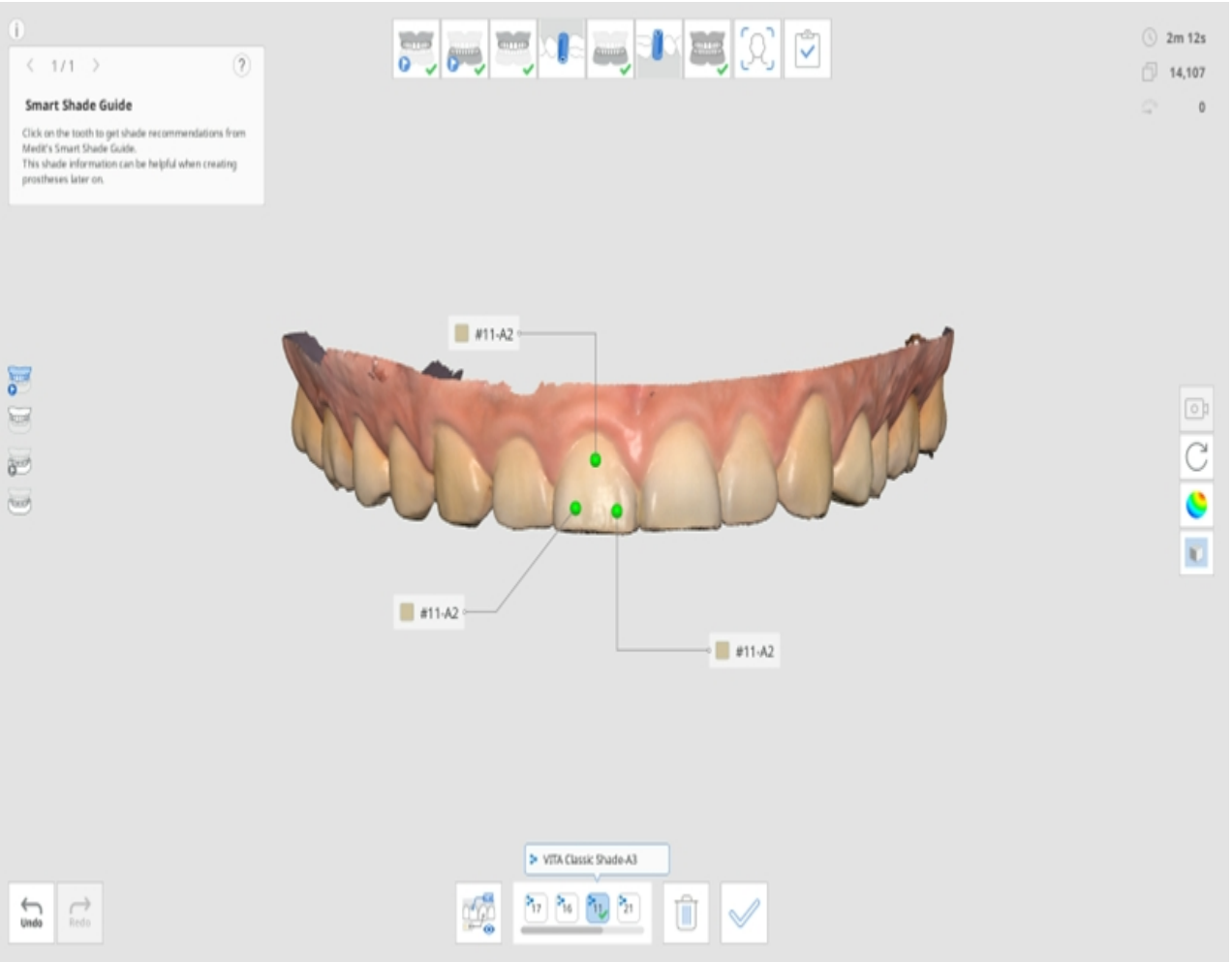

5. Left-click on the tooth area to see shade recommendations. The star icon indicates the closest matching shade.
6. If you want to designate a shade other than the recommendation, click "Manual" and select the desired shade from the list.



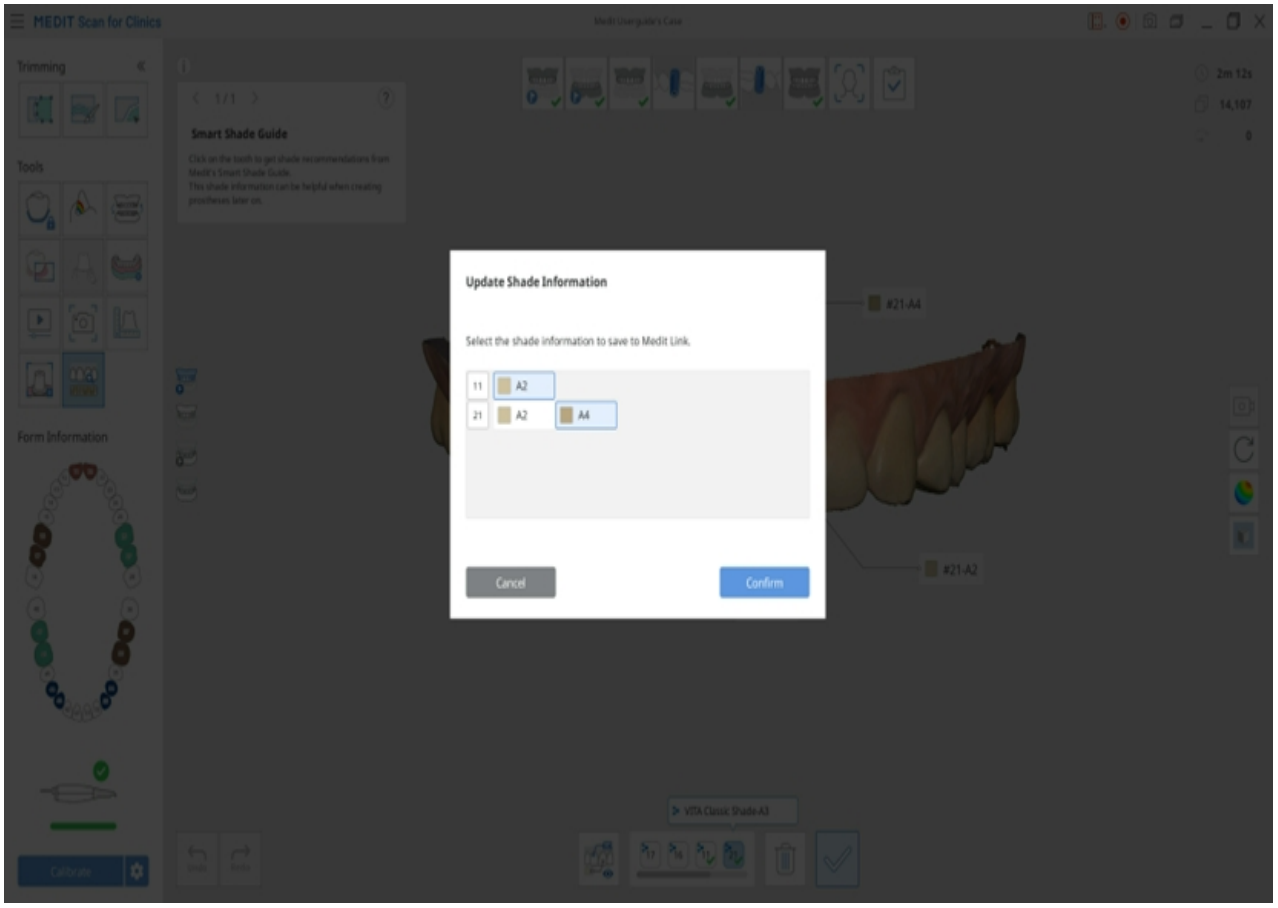

7. Click the desired shade from the list.



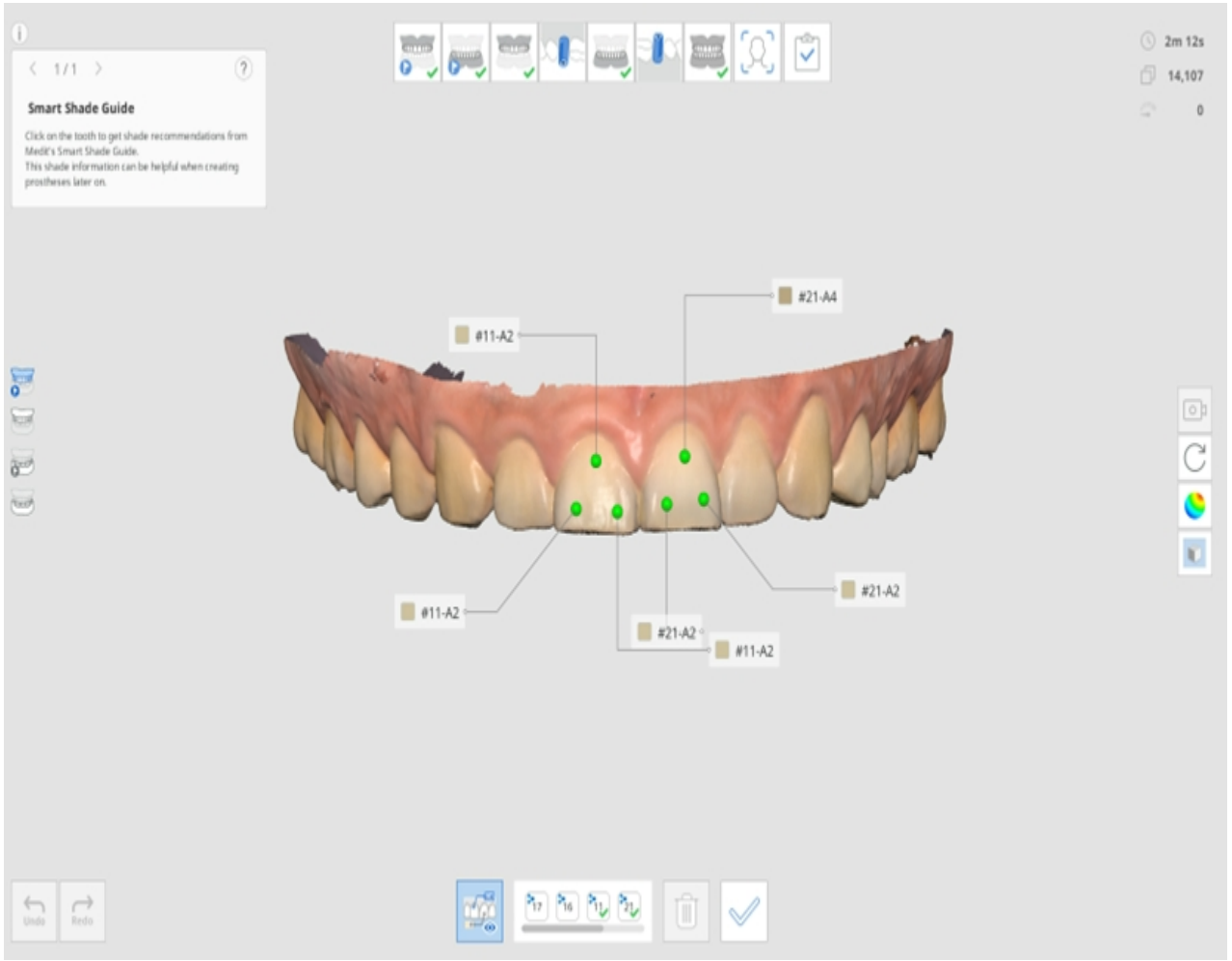

8. You can save up to five shades per tooth.



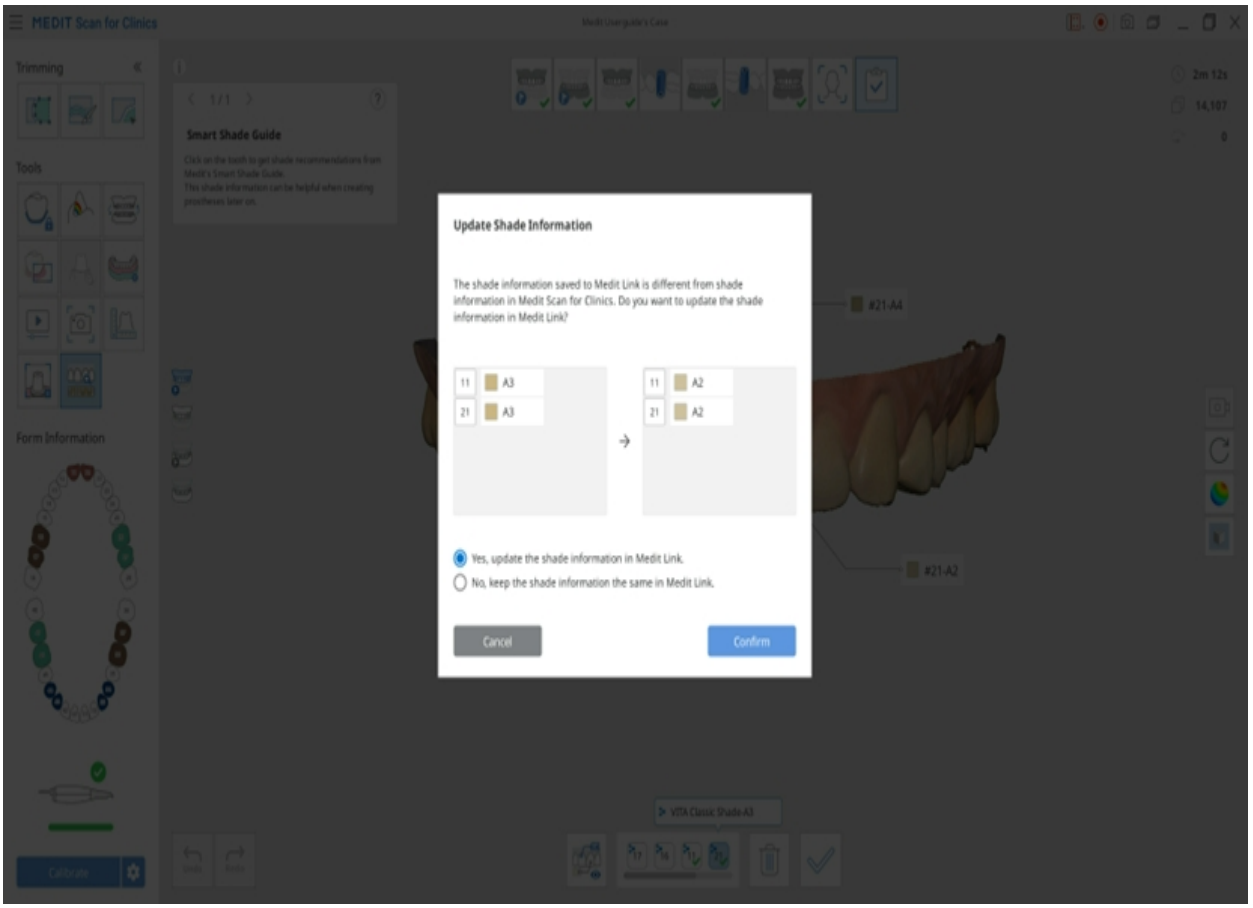

9. After selecting all shades, click "Confirm Shade" at the bottom.
10. The shades selected for each tooth are shown on the Update Shade Information dialog.
11. Select the representative shade that will be saved to the Medit Link.




12. Click "View All" to display all shade information.

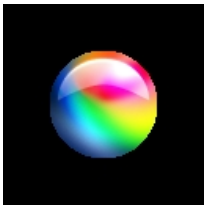


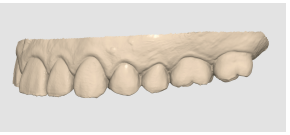
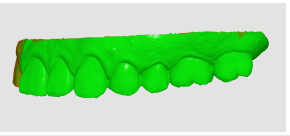
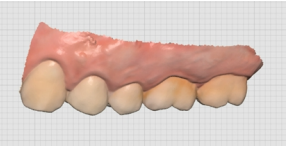
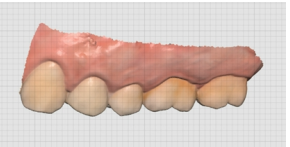
13. When completed, select how you'd like to update the form information in Medit Link.



# Side Toolbar Tools

> 🔎**Note**
>
> Go to Settings > Program Preferences > Interface and enable the "Expand Model Control Icons" option to show the Pan, Zoom In/Out, and Zoom Fit icons.

| | | | |
|---|---|---|---|
|  | Camera View Mode | | Change the camera view mode between the "Dynamic View" and "Fixed View" modes. |
|  | Pan | | Move the model. |
|  | Rotate | | Rotate the model. |
|  | Zoom In/Out | | Zoom in and out on the model. |
|  | Zoom Fit | | Position the model in the center of the screen. |
|  | Data Display Mode | Glossy | See the data in color with glossy finish (PBR rendering).<br> |
|  | | Matte | See the data in color with matte finish (Phong rendering).<br> |

| | | | |
|---|---|---|---|
|  | | Monochrome | See the data in one color.<br> |
|  | | Reliability Map | Apply red, yellow, and green colors to the model to indicate the reliability of scan data.<br>* Green data indicates high reliability, while red indicates poor reliability. You can perform additional scanning to reduce unreliable areas.<br> |
|  | | Matte + Reliability Map | Assist in acquiring better results by allowing reference to the reliability map while also scanning and viewing the simple shading.<br> |
|  | Grid Settings (mm) | Grid On | Shows the grid in the background.<br> |
|  | | Grid Off | Hide the grid in the background. |
|  | | Overlay On | Overlay the grid over the model.<br> |

# Denture Scan

The denture sequence can be utilized for scanning the patient's current denture, temporary denture, or wax rim.

> 🔎**Note**
>
> The Maxillary/Mandibular Denture stage appears when the form is registered as Arch (Full Denture, Denture Replica, or Implant Supported Denture) on Medit Link.

- Ensure all sides of the denture are sufficiently scanned, including labial/buccal and palatal/lingual surfaces.
- For the maxilla, make sure to scan the palatal area, including the palatal rugae and maxillary tuberosity.
- For the mandible, make sure to scan the retromolar triangle.
- If the camera is lost during scanning, start again at the palate's most prominent part, such as palatal rugae or residual alveolar ridge.

# Full Denture

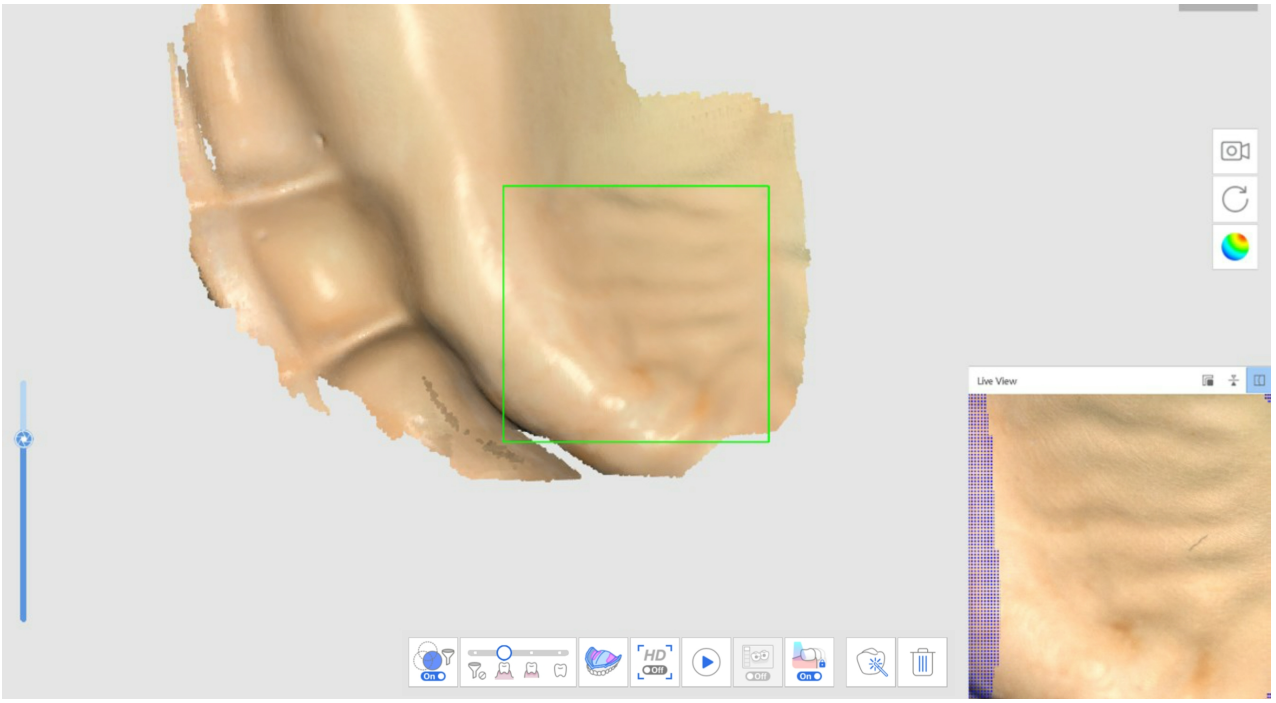
The workflow of full denture appears as follows.



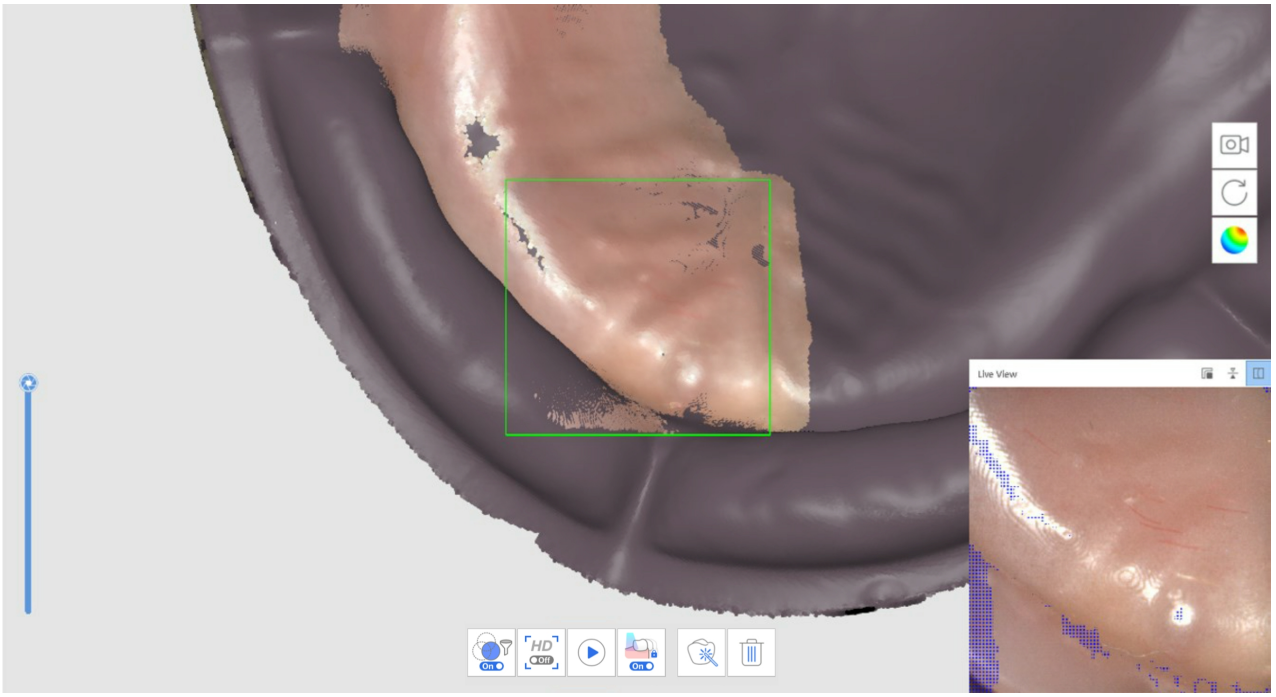
## Acquire Edentulous Scan Data

Scan the edentulous maxilla/mandible at the Edentulous Maxilla/Mandible scan stage and the denture data at the Maxillary/Mandibular Denture stage.

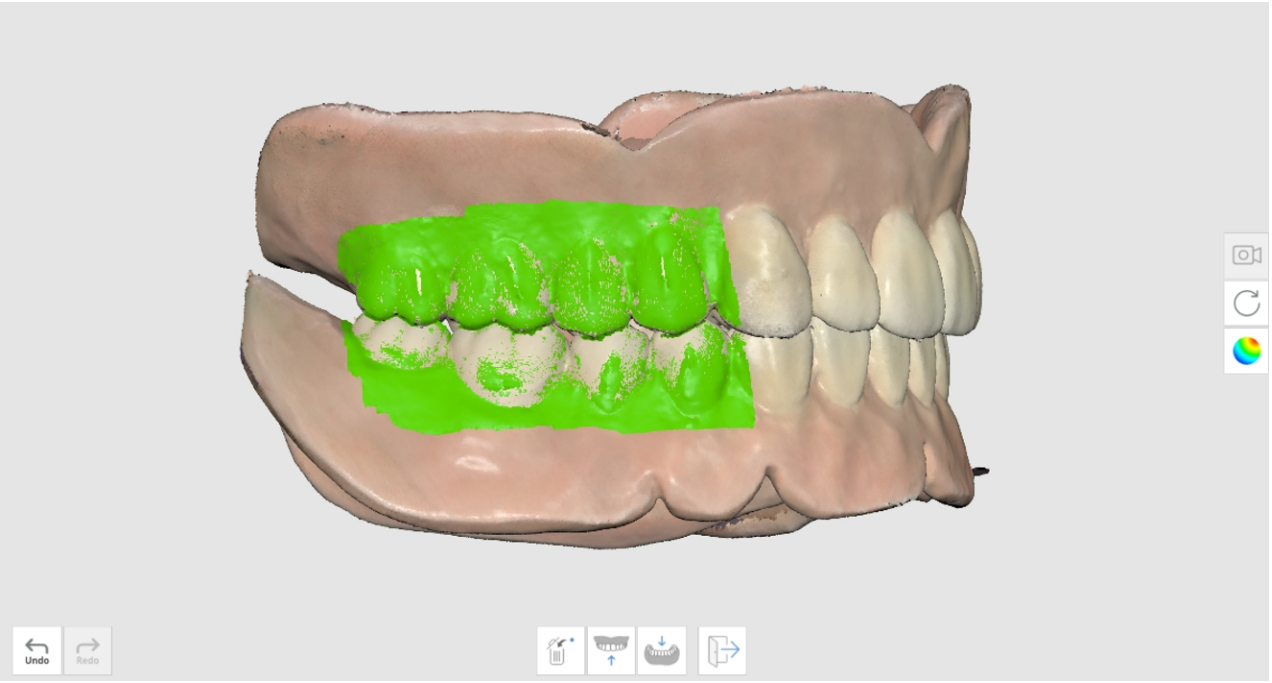
1. Scan the edentulous surface for the maxilla.




2. The edentulous data acquired at the first scan stage (Edentulous Maxilla) will be reversed and used as the basis for the denture alignment at the next scan stage.



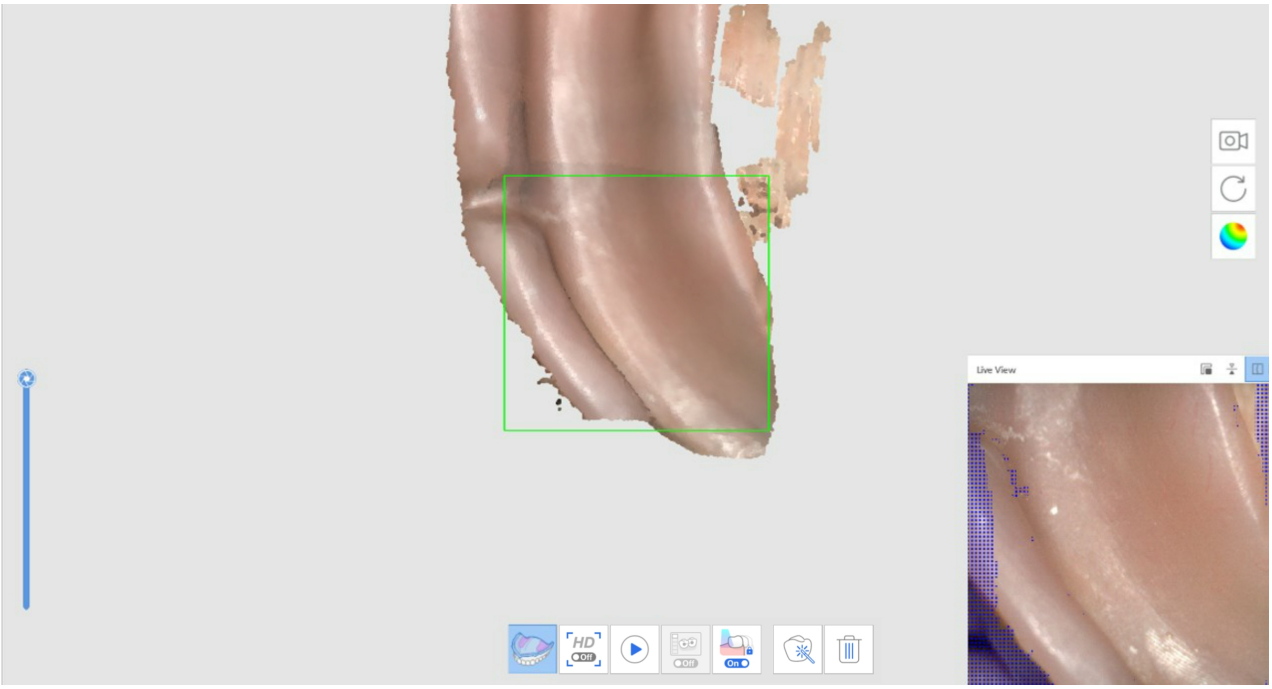

3. Scan the denture data in the following order: fitting surface > border > polished surface and artificial teeth.
4. Repeat the process for the mandible.
5. Scan the denture occlusion at the Occlusion scan stage. The data can be utilized in CAD.




## Relined Denture Scan

Scan the denture without acquiring intraoral data from the patient. Scan the fitting surface of the denture at the Edentulous Mandible scan stage and the outer side at the denture stages.

1. At the Edentulous Mandible scan stage, click "Relined Denture Scan" to scan in reverse mode.

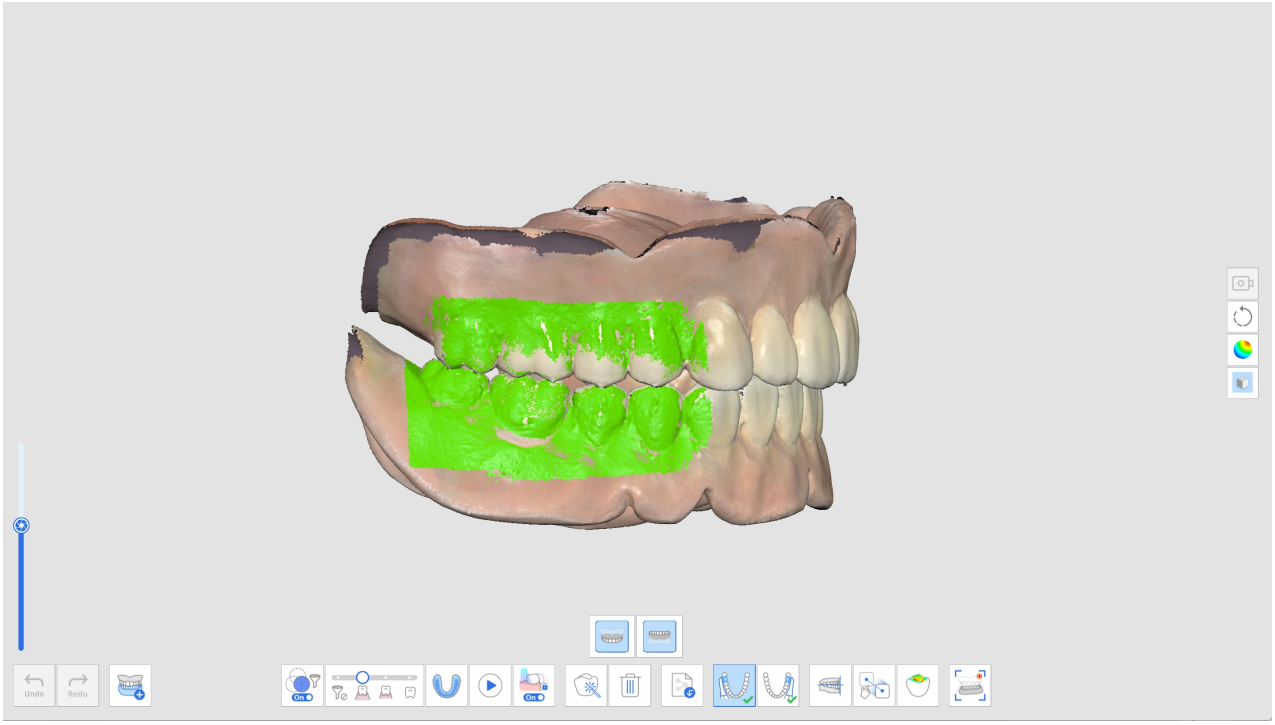




2. After moving to the next stage, scan the outside of the denture. The data from the previous stage will be copied and reversed since it will be used as the basis for denture alignment.
3. Repeat the process for the maxilla.

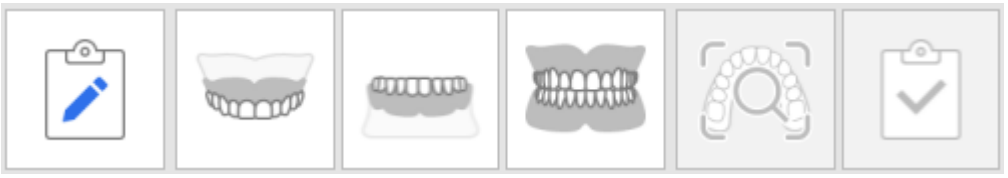


4. Scan the denture occlusion at the Occlusion scan stage. The data can be utilized in CAD.



# Denture Replica

The following workflow of denture replica appears as Maxillary Denture > Mandibular Denture > Occlusion.



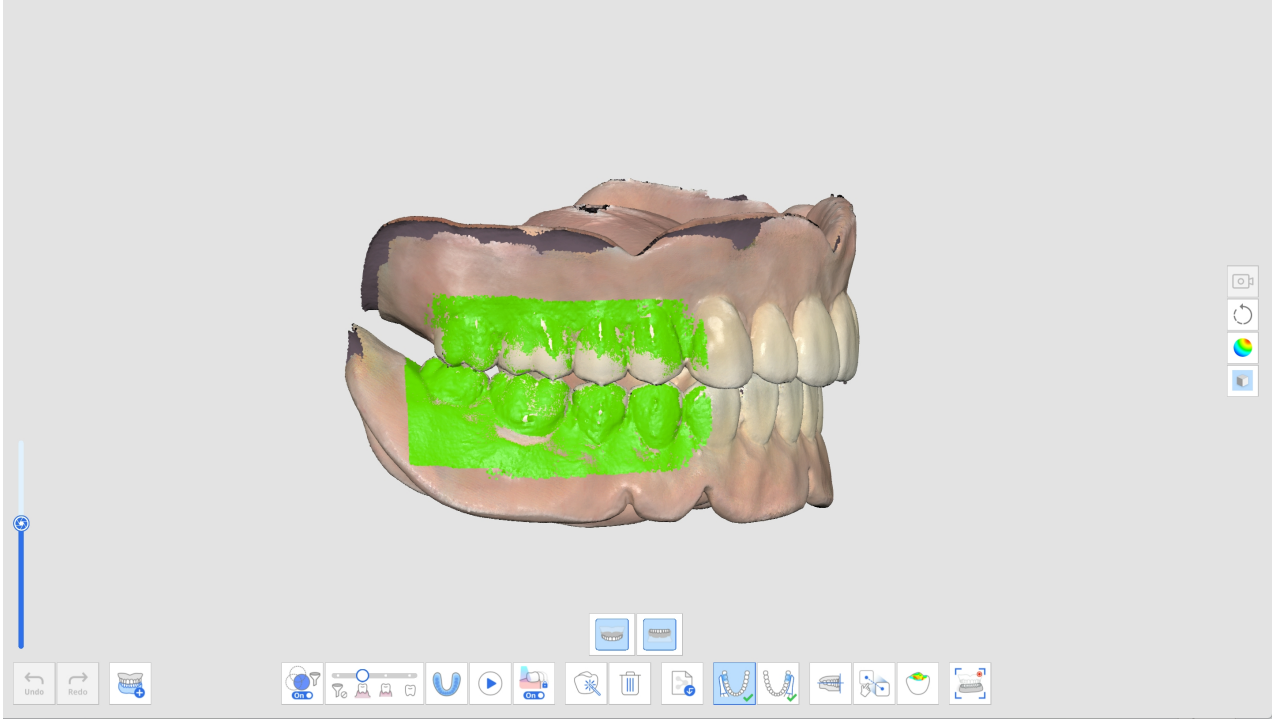
1. Scan the maxillary denture.



2. Scan the mandibular denture.




3. Scan the denture data in the following order: fitting surface > border > polished surface and artificial teeth.
4. Scan the denture occlusion at the Occlusion scan stage. The data can be utilized in CAD.




# Implant Supported Denture

The following workflow of implant-supported dentures appears as Edentulous Maxilla > Maxillary Denture > Edentulous Mandible > Scan Body > Mandibular Denture > Occlusion.

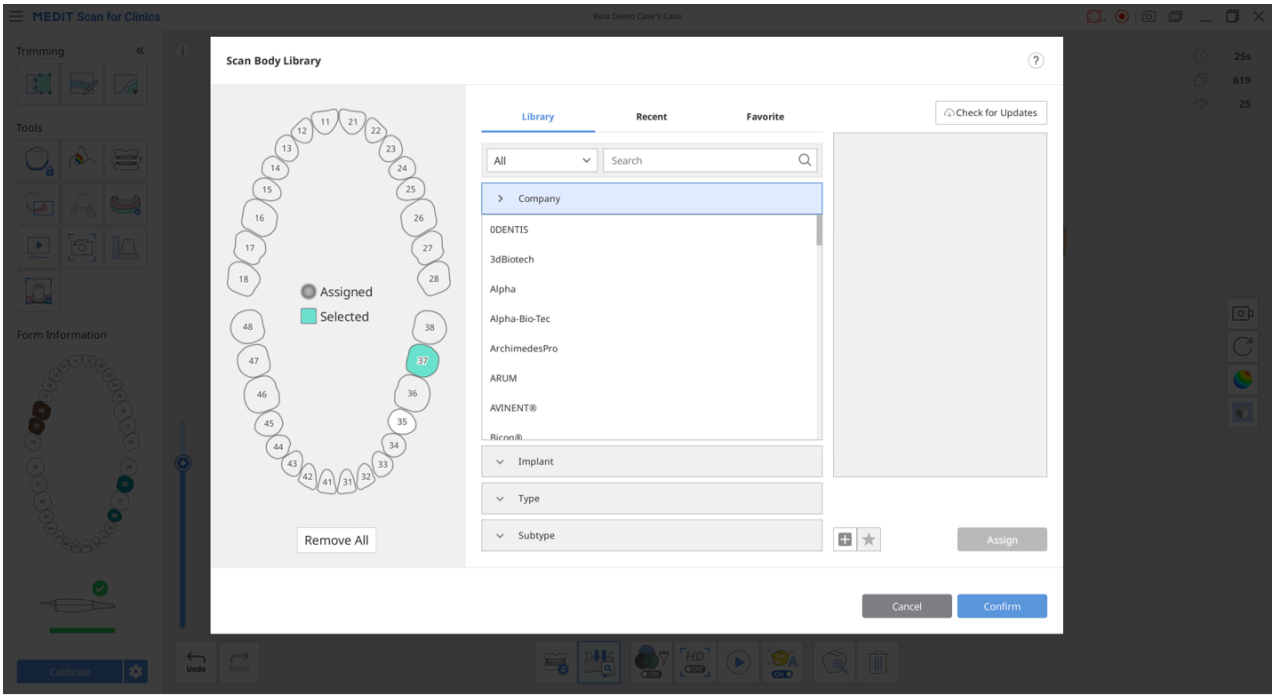


1. Acquire the data for the edentulous scan stages.
2. Scan the scan body at the corresponding scan body scan stage.

> Utilize the "Scan Body Library Matching" tool to get precise scan body data from the pre-set library.




3. Select a tooth number, find the corresponding scan body data in the library, and click "Confirm."




4. Scan the denture occlusion at the Occlusion scan stage. The data can be utilized in CAD.

# Pre-Op Scan

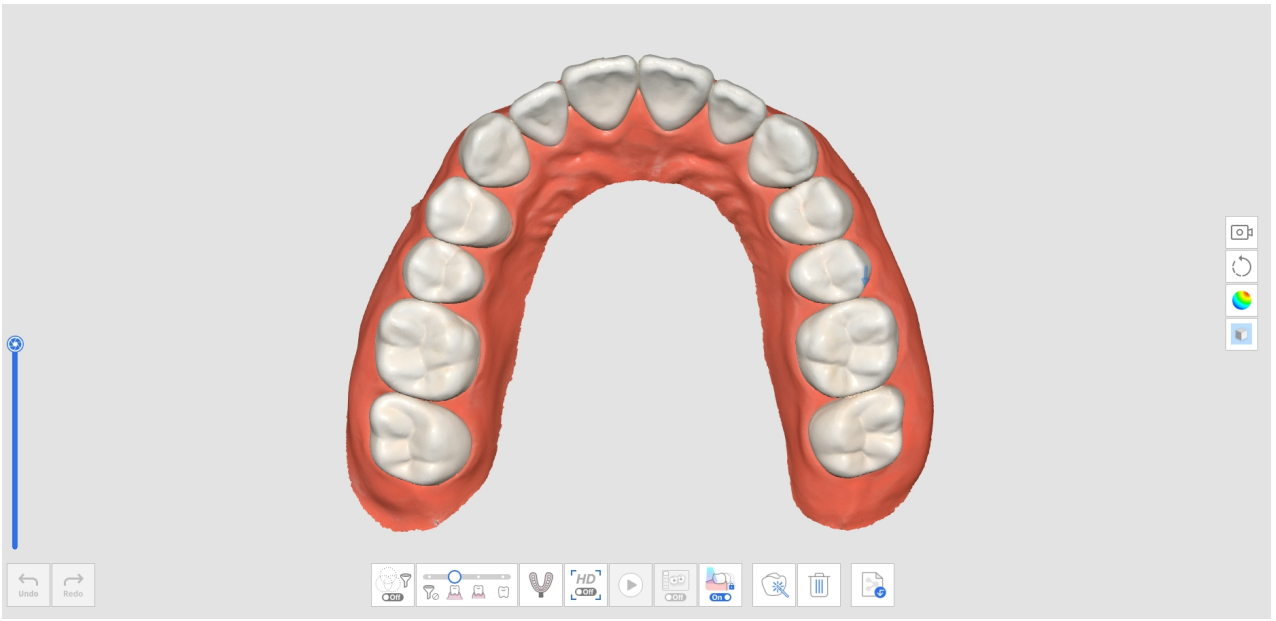
You can use the pre-op teeth data from the Pre-Op stages as future reference data to create prostheses later.

Once you acquire or import data at the Pre-Op for Maxilla or Pre-Op for Mandible stage, the data is automatically replicated to the Maxilla or Mandible stage when you move on to the next stage.

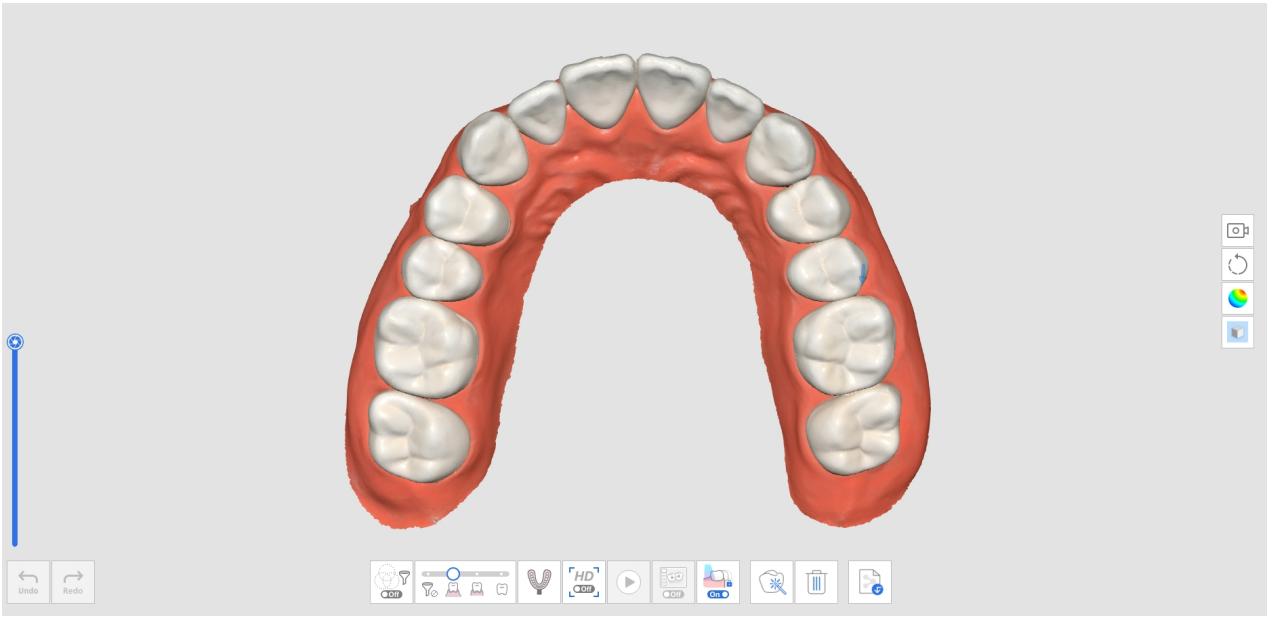
You can utilize the replicated pre-op data to acquire the prepared data or delete and newly scan the prepared data.

## How to Utilize Pre-Op Scan

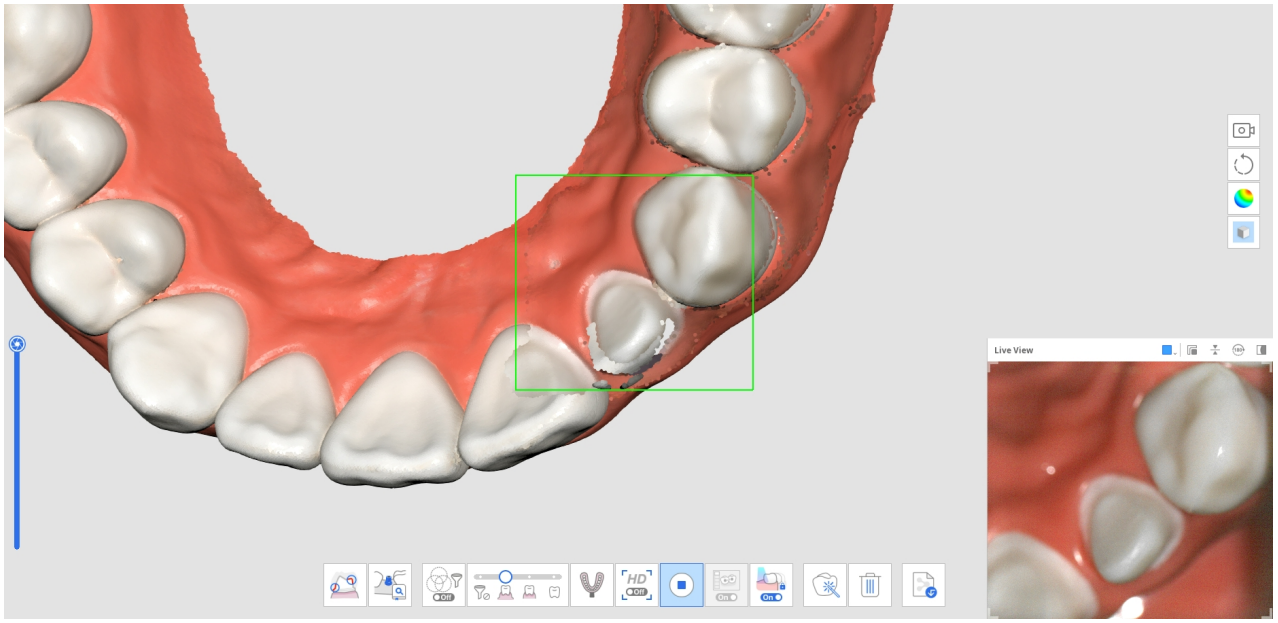
1. Scan the mandible (or maxilla) before tooth preparation at the Pre-Op for Mandible (or Pre-Op for Maxilla) scan stage.



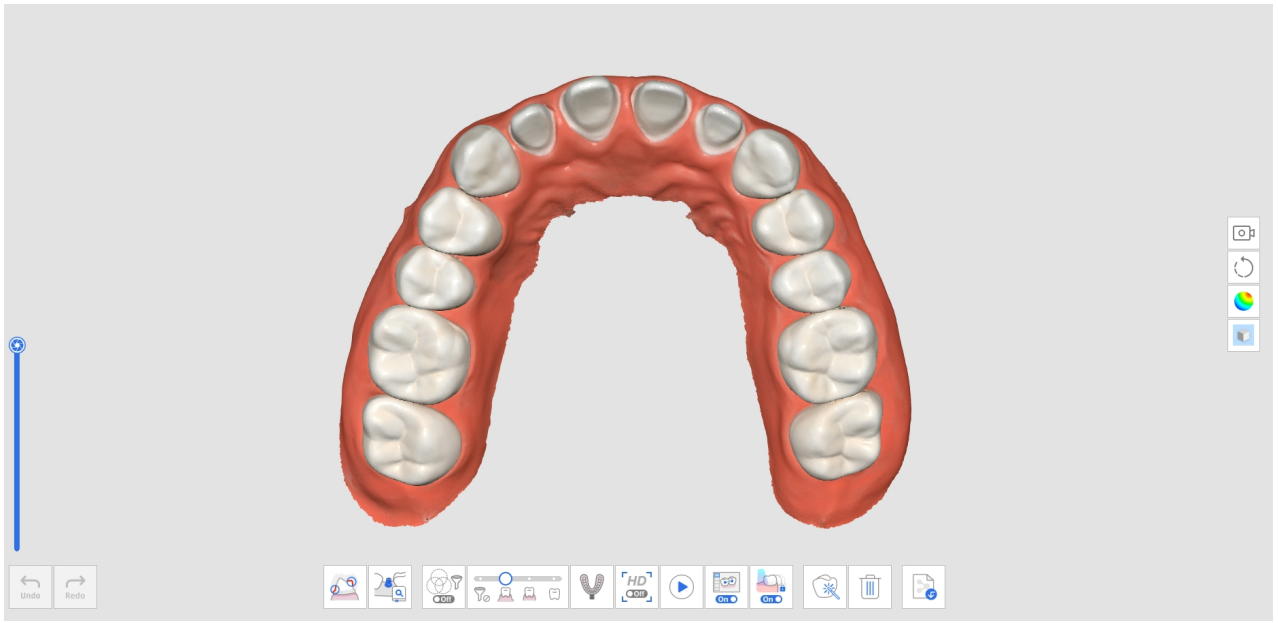
2. Move to the Mandible (or Maxilla) scan stage. Then the data acquired in the Pre-Op for Mandible (or Pre-Op for Maxilla) stage will be replicated in this stage.



3. Scan the mandible after tooth preparation. Start scanning from the area without prepared teeth and continue to scan the prepared teeth to replace the existing data.

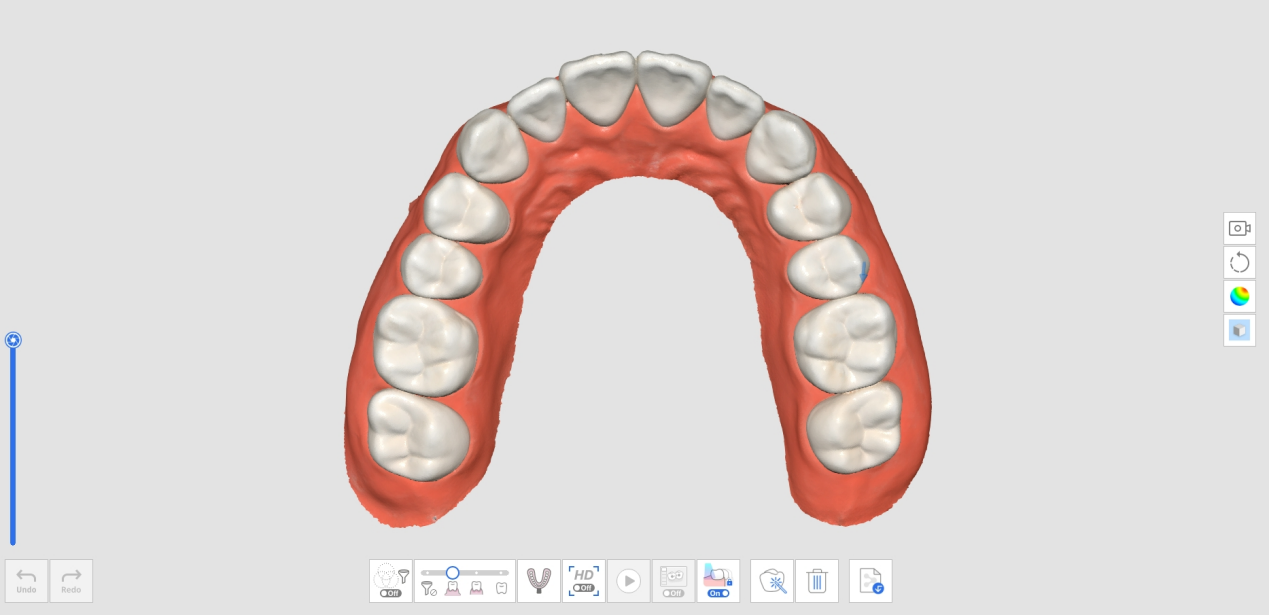



4. The image below shows the completed scan.

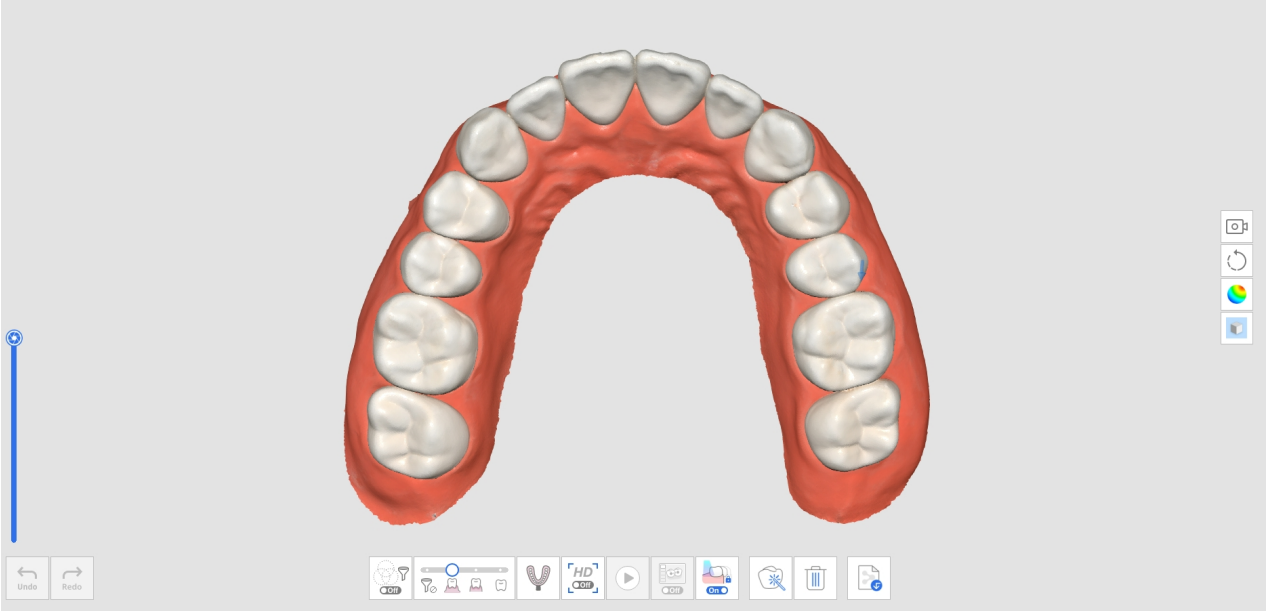


# How to Utilize Pre-Op Scan With Trimming Tools

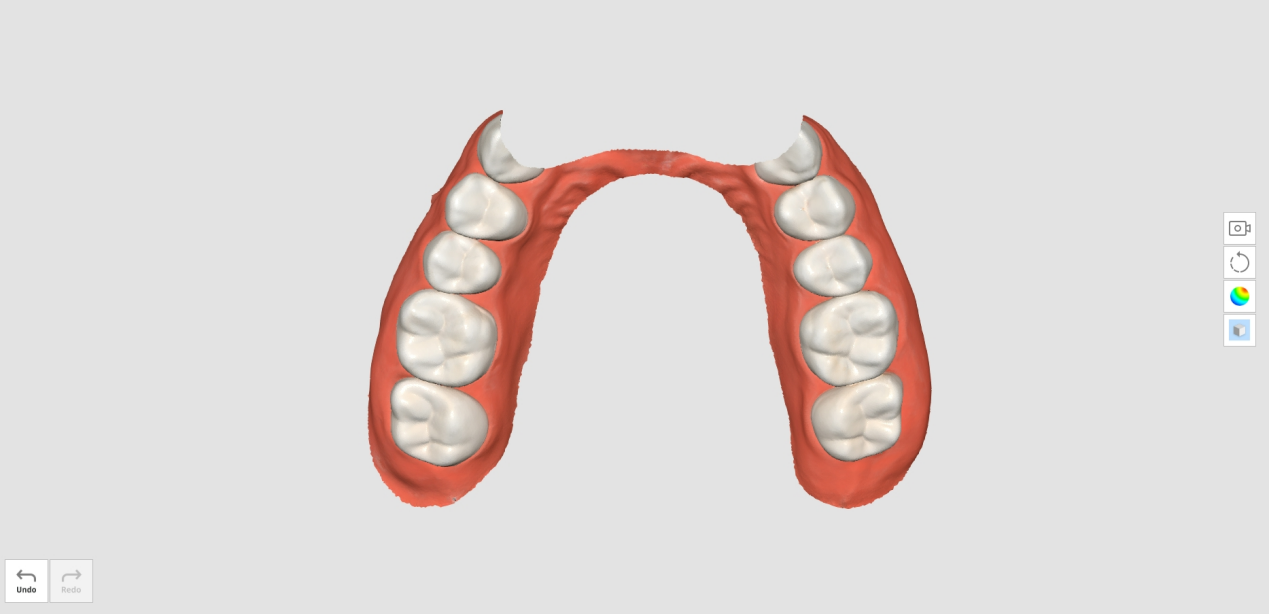
1. Scan the mandible (or maxilla) before tooth preparation at the Pre-Op for Mandible (or Pre-Op for Maxilla) scan stage.



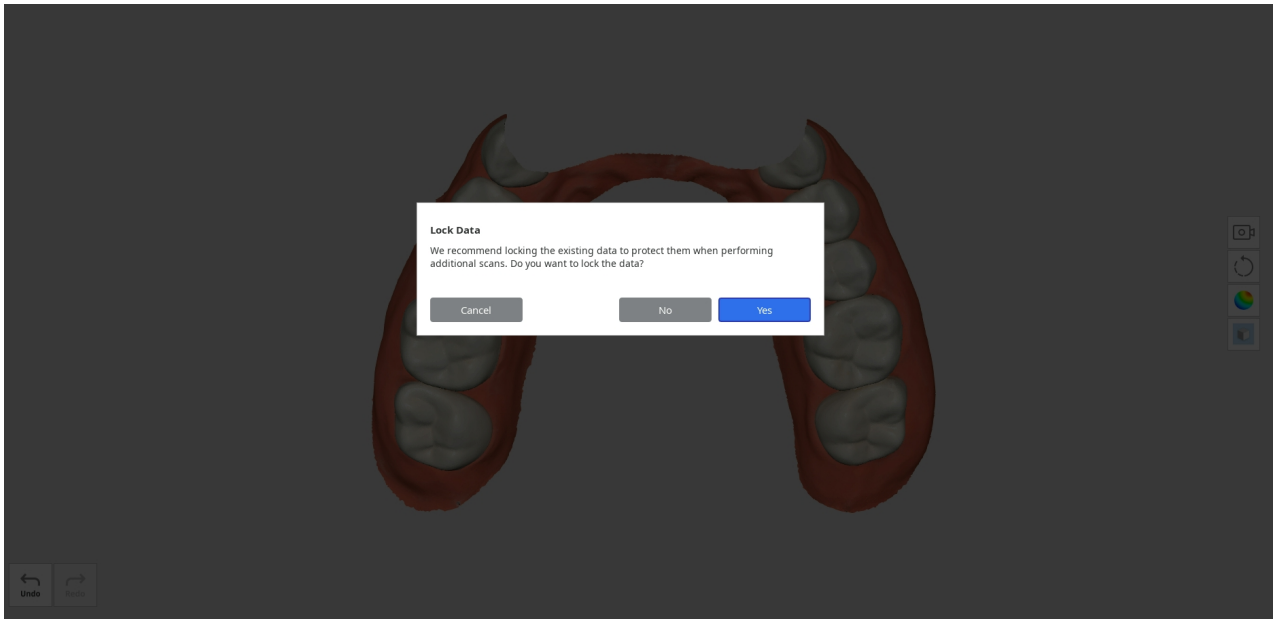
2. Move to the Mandible (or Maxilla) scan stage. Then, the data acquired in the Pre-Op for Mandible (or Pre-Op for Maxilla) stage will be replicated.



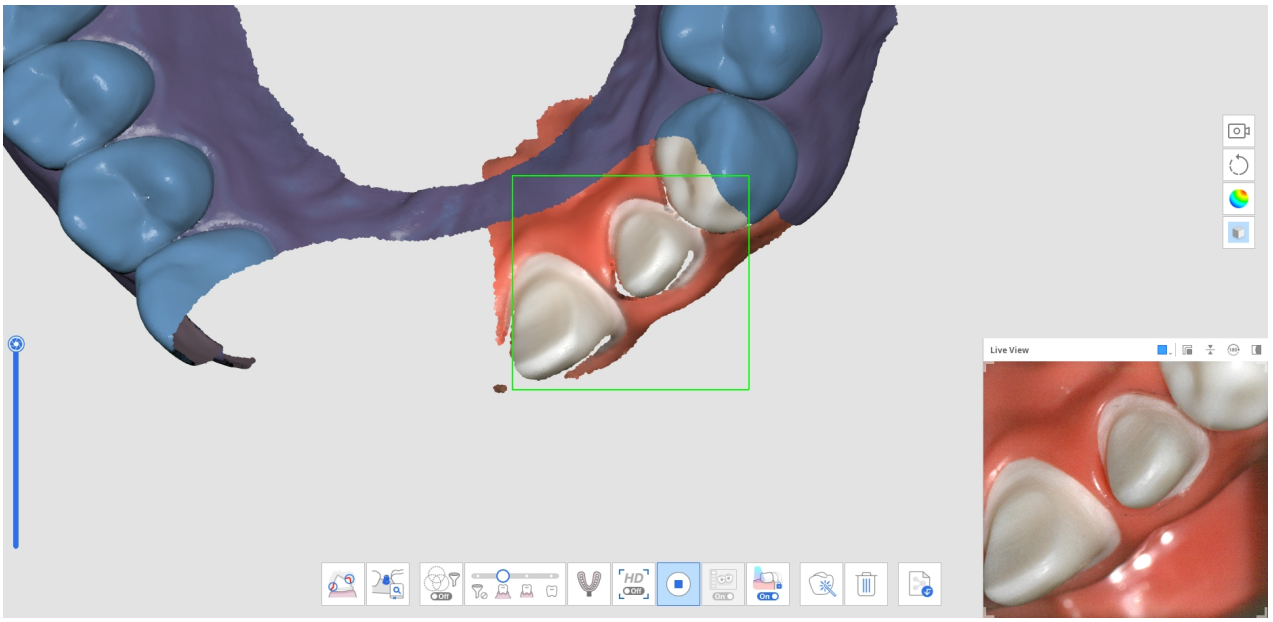
3. Use trimming tools to delete the data where prepared teeth are located.



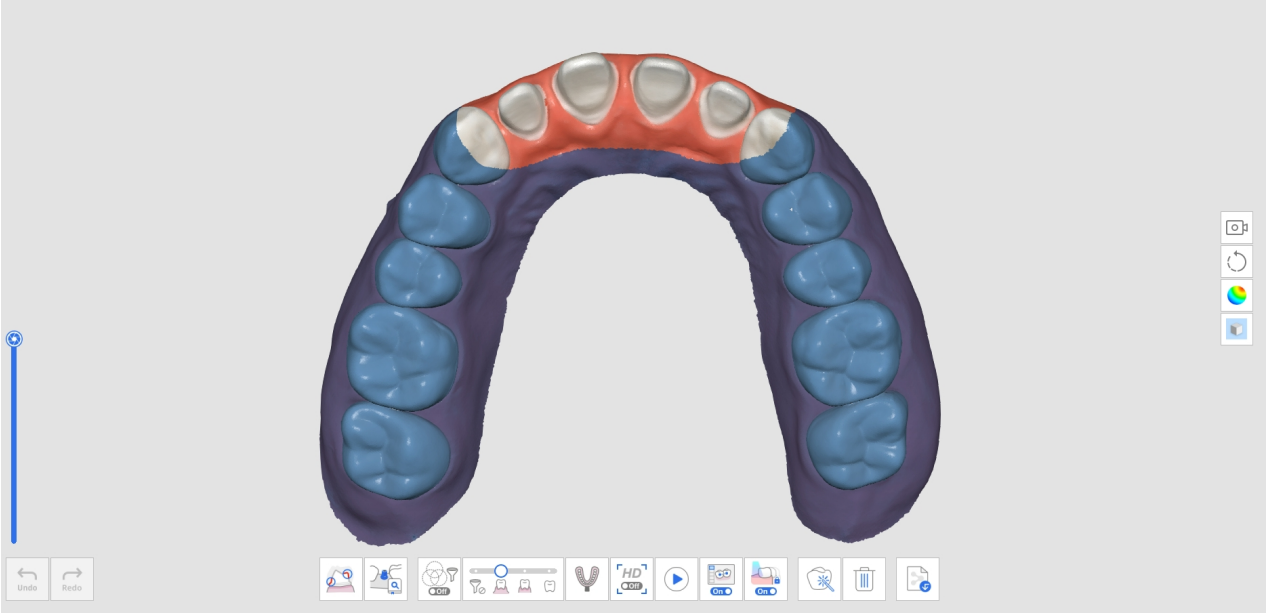
4. When you try to exit from Trimming Tools, you will be asked to lock the data. Click "Yes" to lock the existing data to protect them during additional scans.




5. The locked data is presented in a different color, and this will prevent any unwanted changes.
6. Acquire additional scan data in the prepared teeth area.

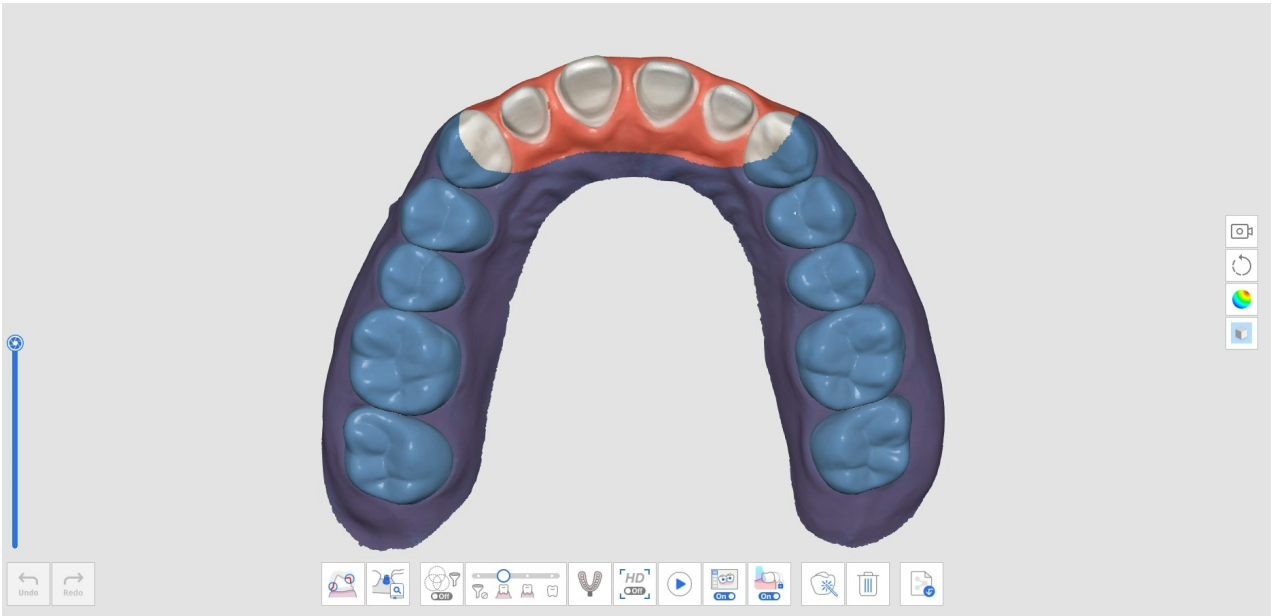



7. The image below shows the completed scan.

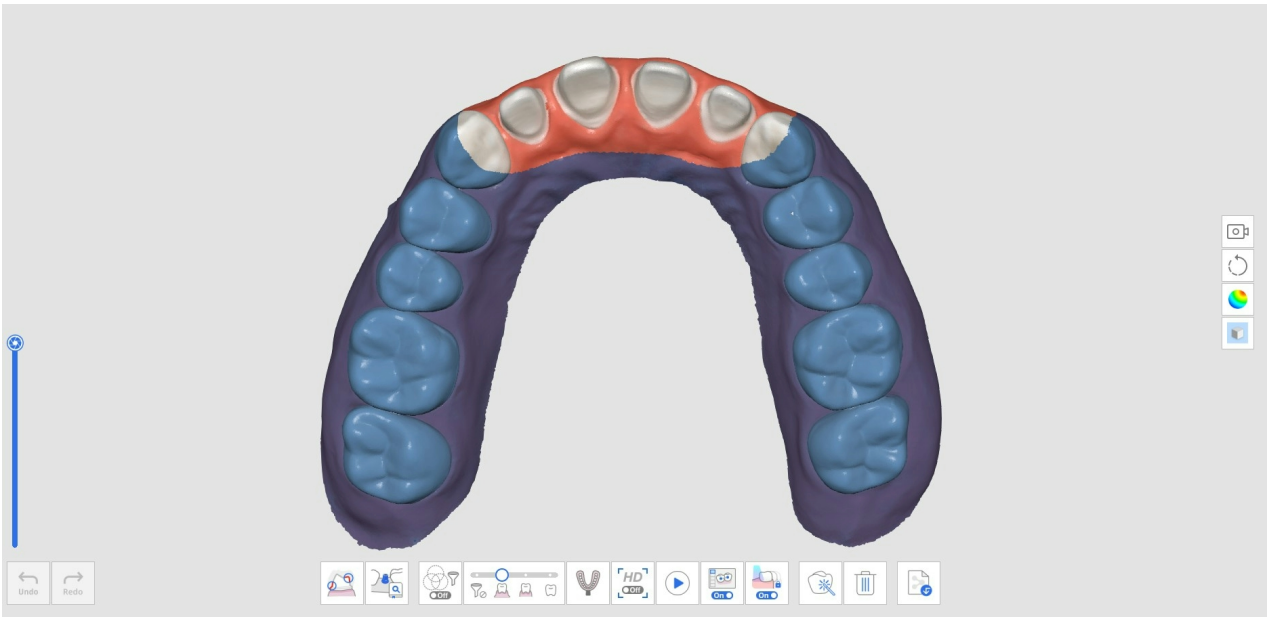


# How to Delete Replicated Pre-Op Scan and Scan New Data

1. Scan the mandible (or maxilla) before tooth preparation at the Pre-Op for Mandible (or Pre-Op for Maxilla) scan stage.



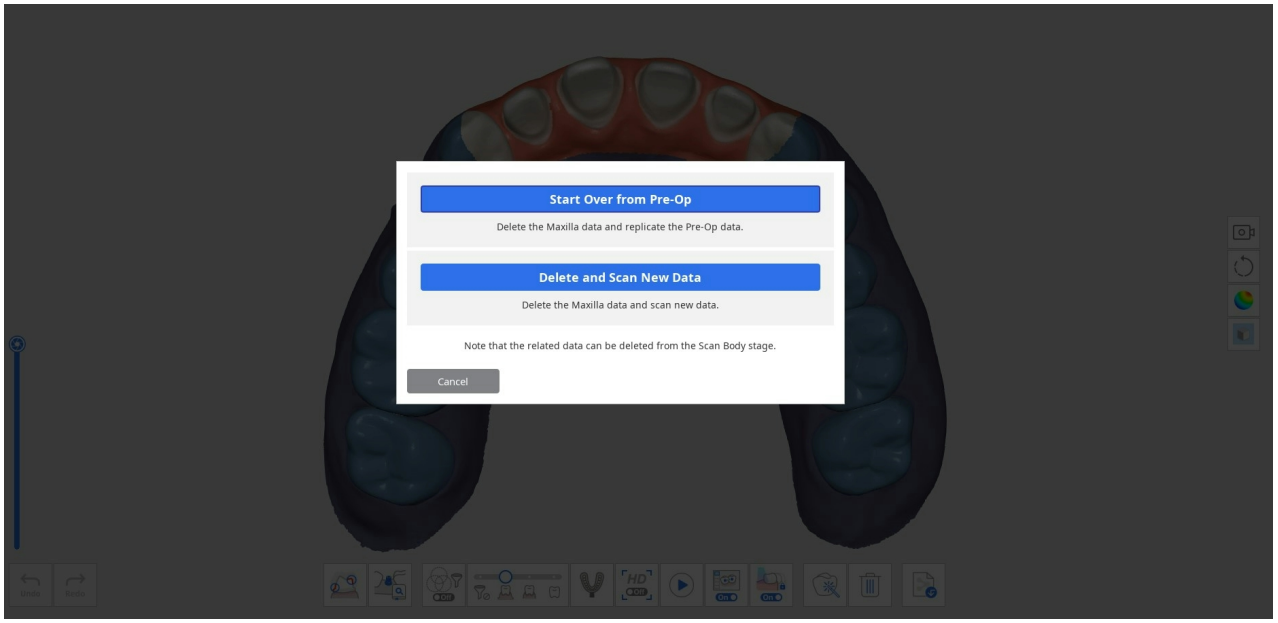
2. Move to the Mandible (or Maxilla) scan stage. Then, the data acquired in the Pre-Op for Mandible (or Pre-Op for Maxilla) stage will be replicated.



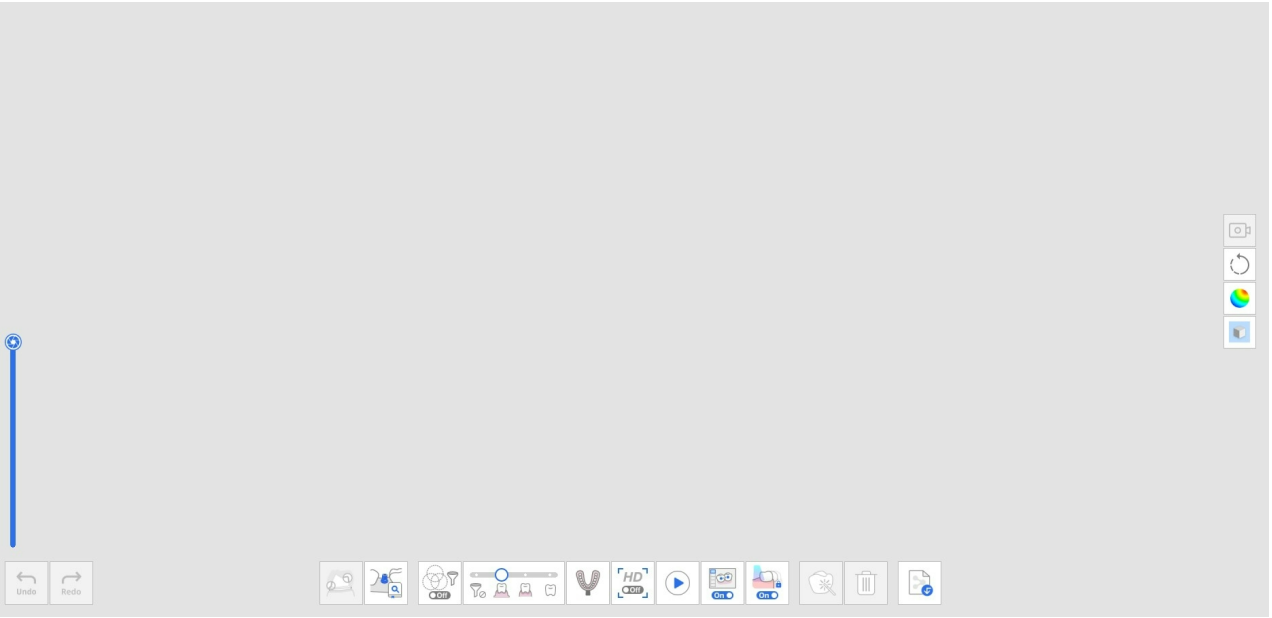
3. Click the "Delete" icon at the bottom.



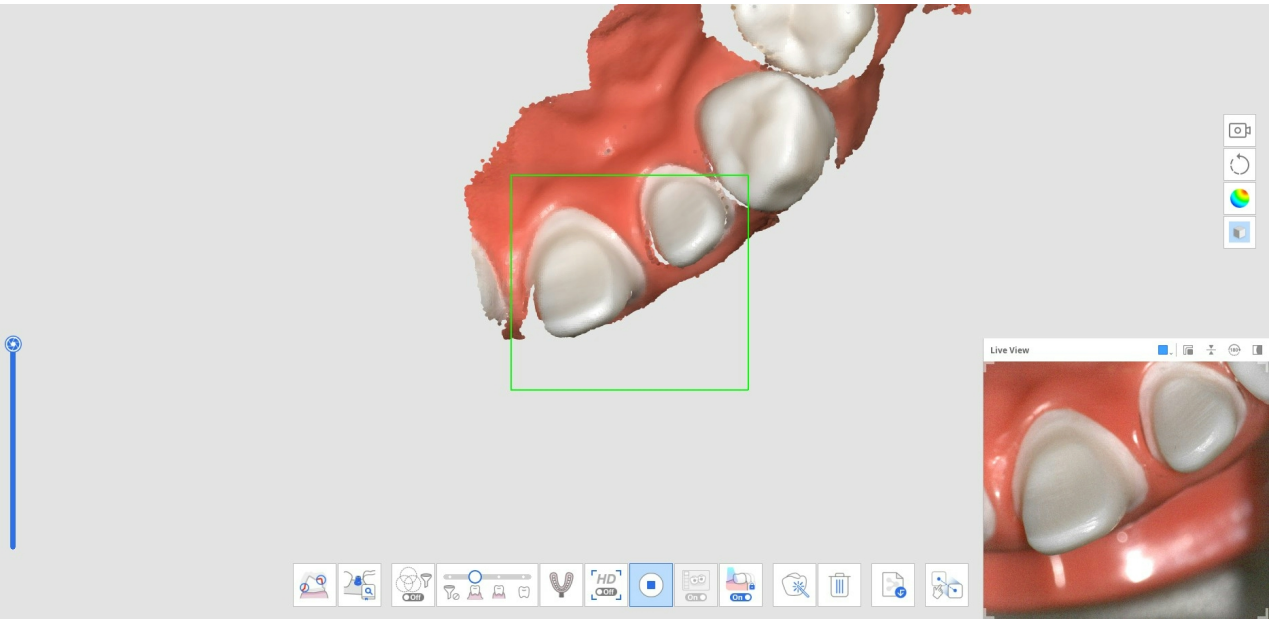
4. Click the "Delete and Scan New Data" button.



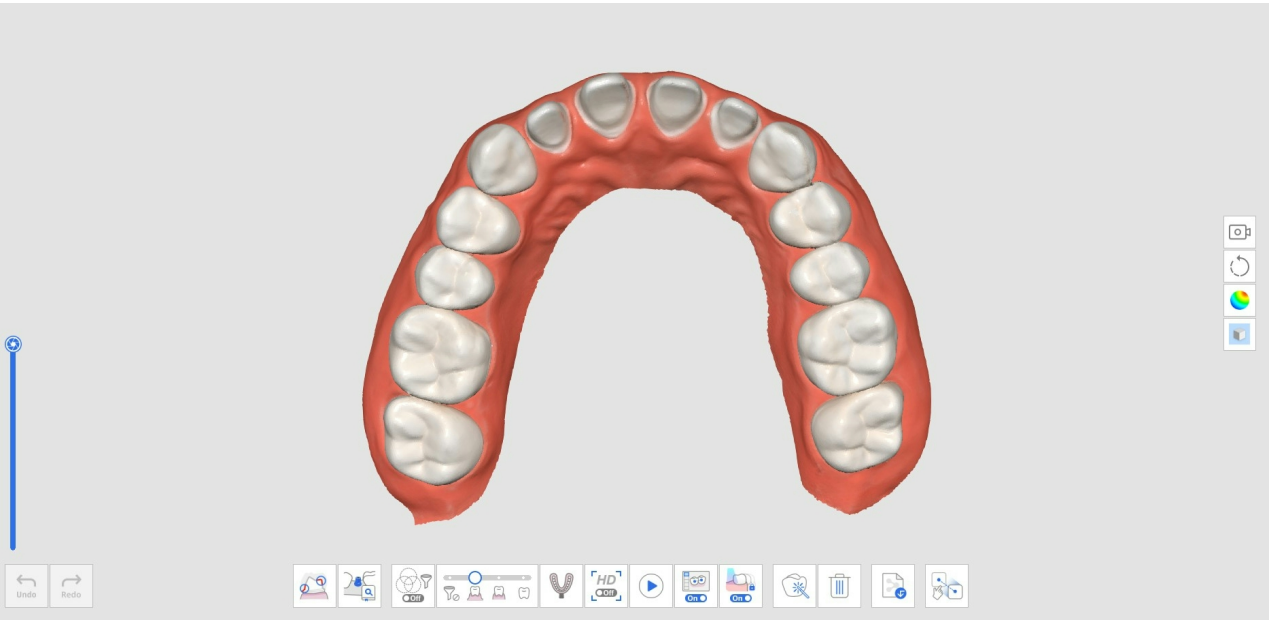

5. The data will be deleted as below.



6. You can now scan the prepped teeth data.



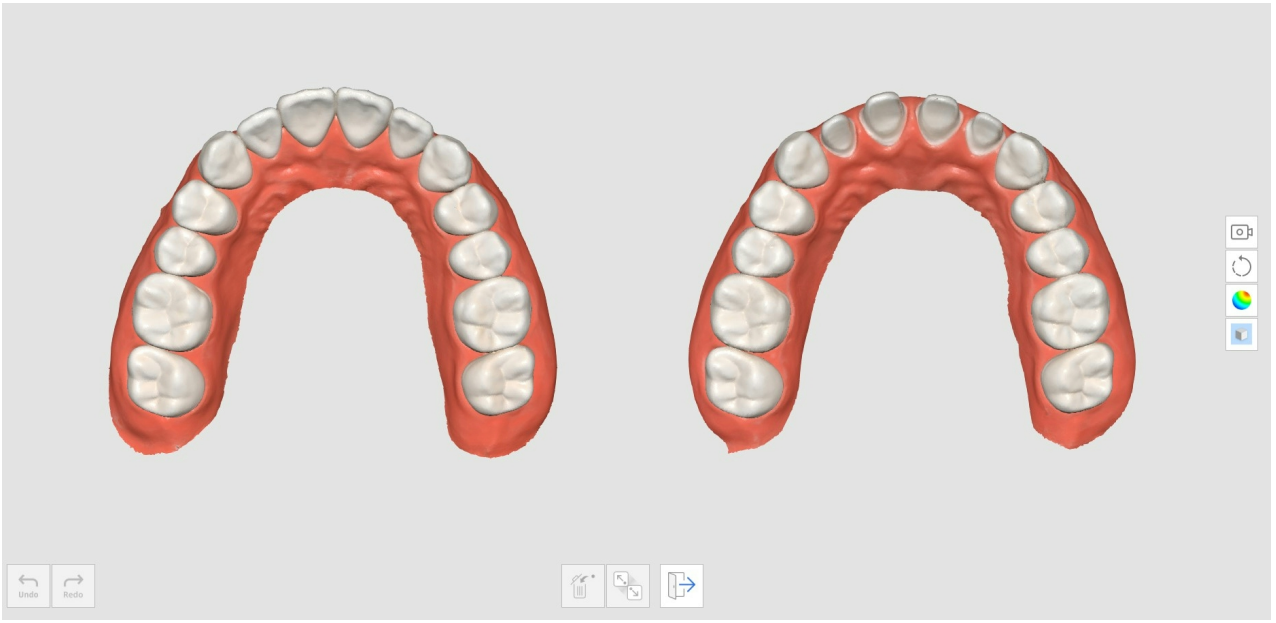

7. The image below shows the completed scan.



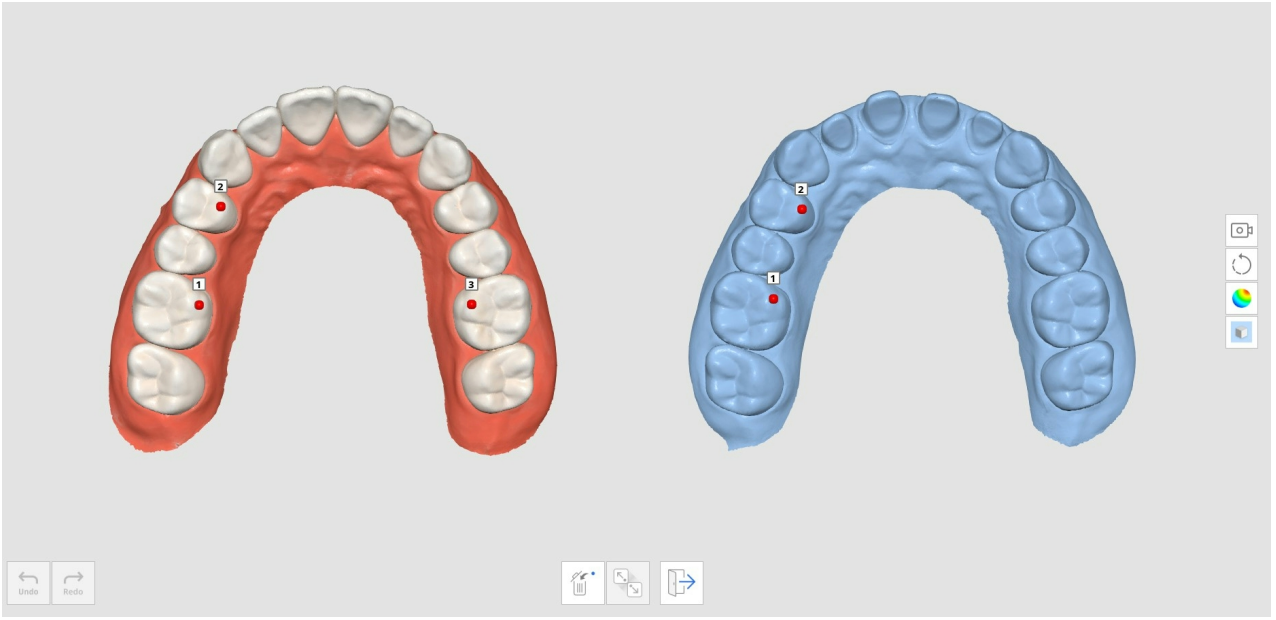
8. Click the "Manual Alignment" icon at the bottom to manually align the Pre-Op for Mandible (or Pre-Op for Maxilla) data with Mandible (or Maxilla) data.



9. You will see both pre-op and prepared data in the data display area.



10. Place up to three points to align the data.




11. The image below shows the completed scan.


Undo
Redo

# Impression Scan

The Impression Scan provides seamless scanning, combining intraoral and impression scan.

You can easily merge the intraoral and impression data with an integrated scan.

## How to Acquire Impression Scan

1. Scan intraoral scan data in the Maxilla or Mandible stage.



2. Click the "Impression Scan" icon at the bottom.

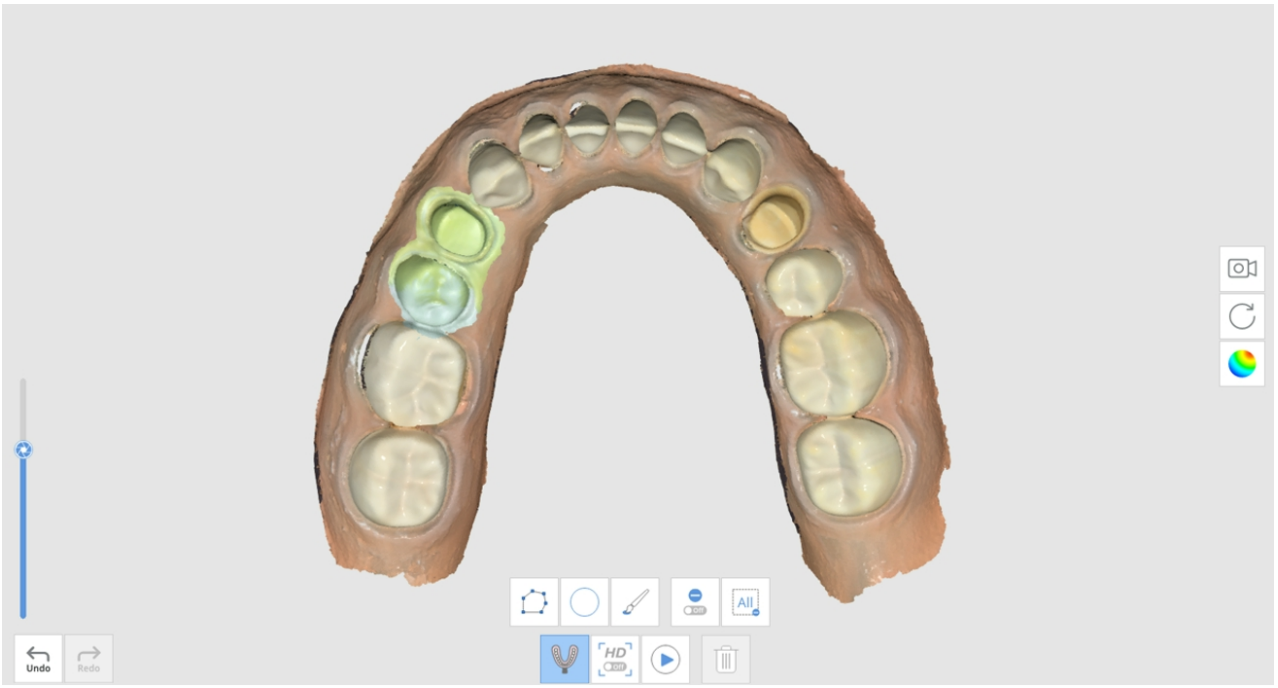


3. Mark the area to replace intraoral data with impression data.

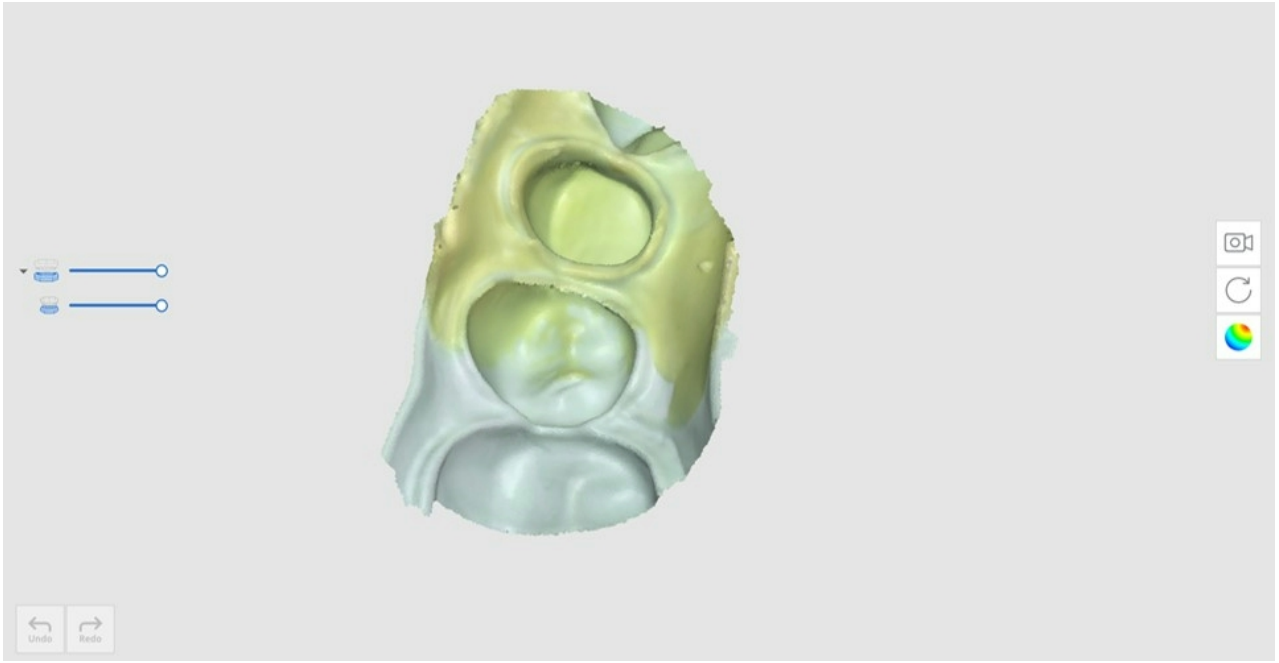
> 🔎**Note**
>
> This function is useful to limit the area to be replaced.
>
> If the user skips the marking process, the entire data will be replaced by the impression data.




4. Scan the impression model for the marked area. The impression data will be aligned with intraoral data automatically.



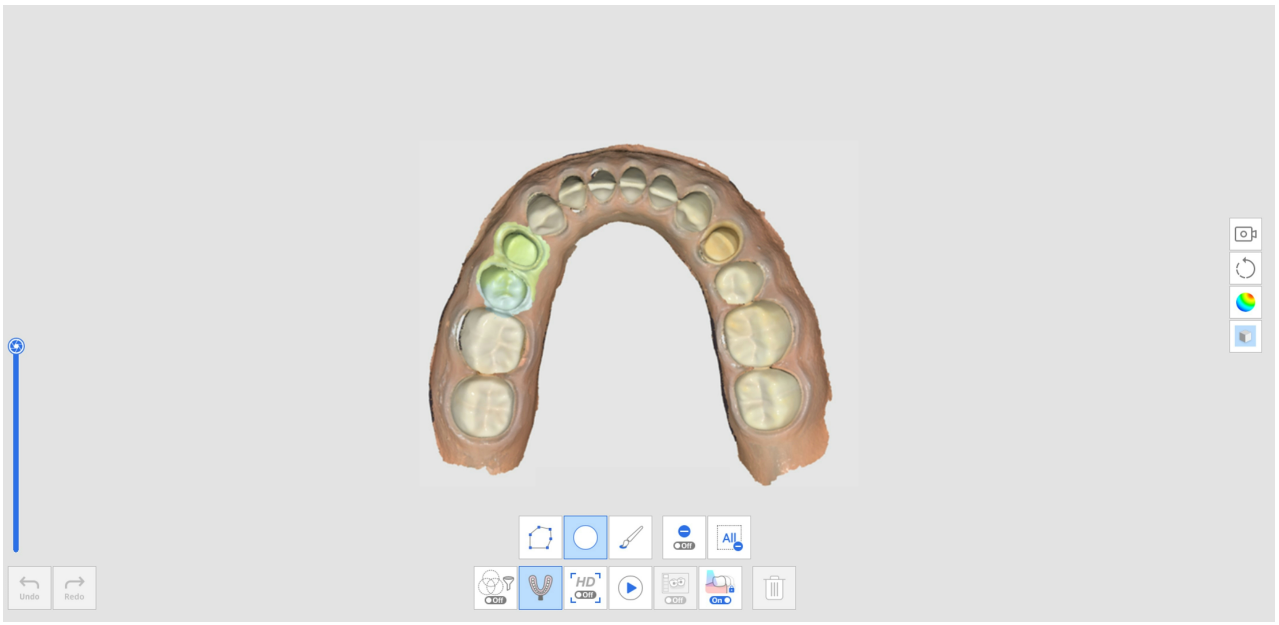

5. With the "Impression Scan" feature turned on, use the trimming tools to display only impression data.



6. Delete any unnecessary areas in the impression data.

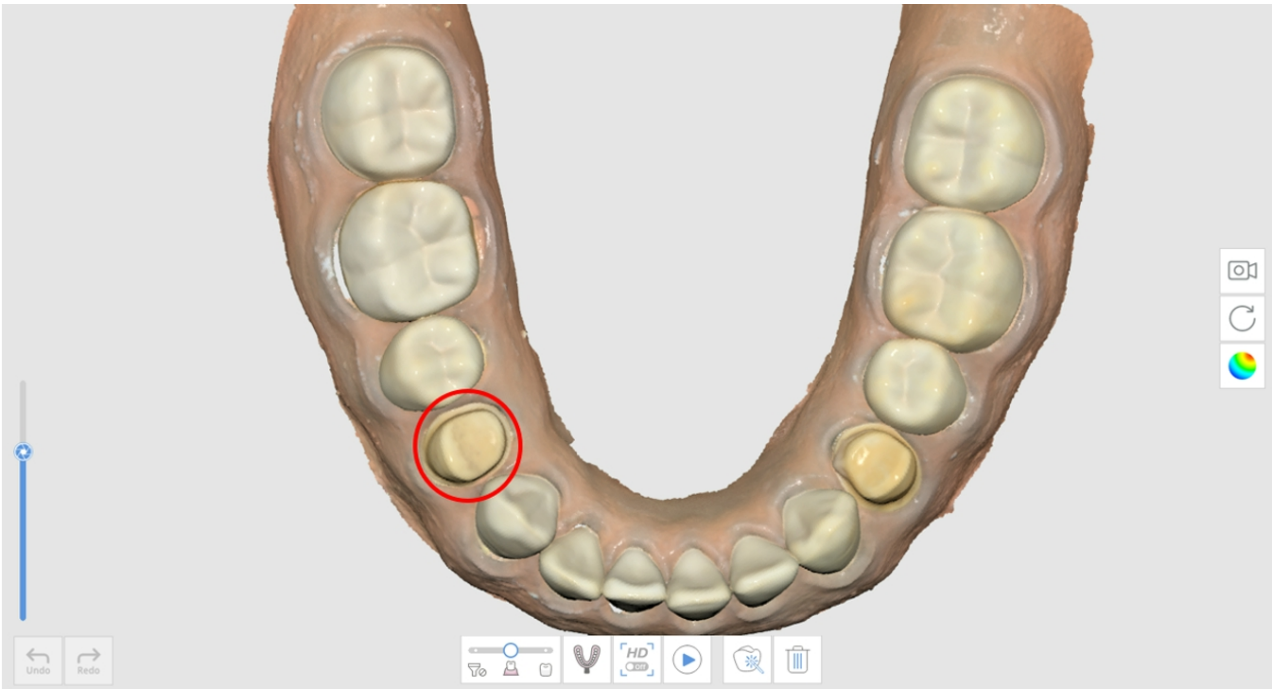


7. The result will appear as shown below.

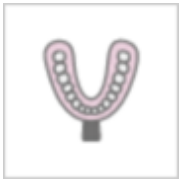


# How to Utilize Impression Scan for Margins

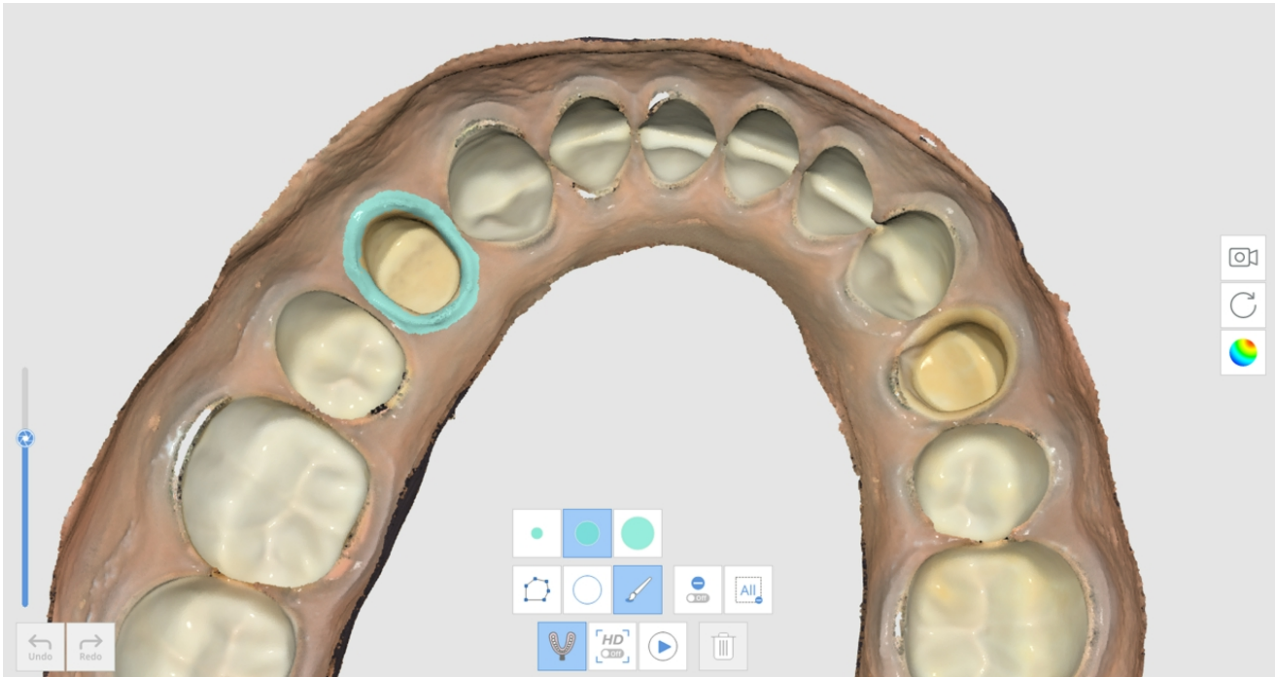
1. Scan intraoral scan data in the Maxilla or Mandible stage.




2. Click the "Impression Scan" icon at the bottom.



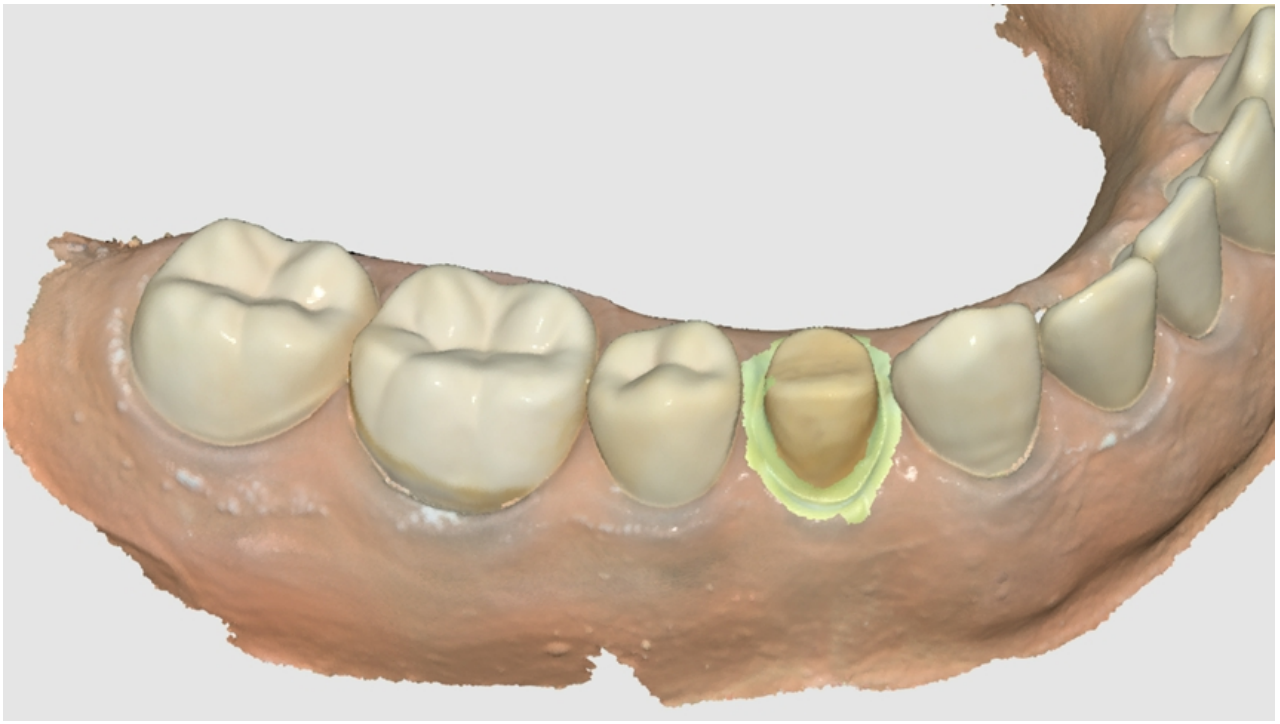
3. Mark the margin area with a trimming tool.




4. Scan the impression.




5. The result will appear as shown below.

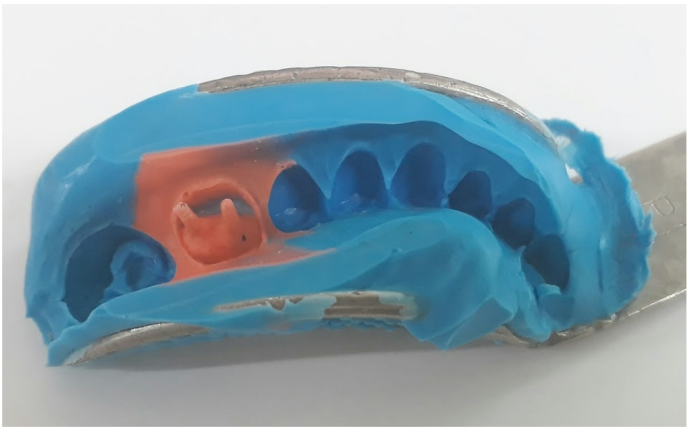


# How to Utilize Impression Scan for Post & Core Case

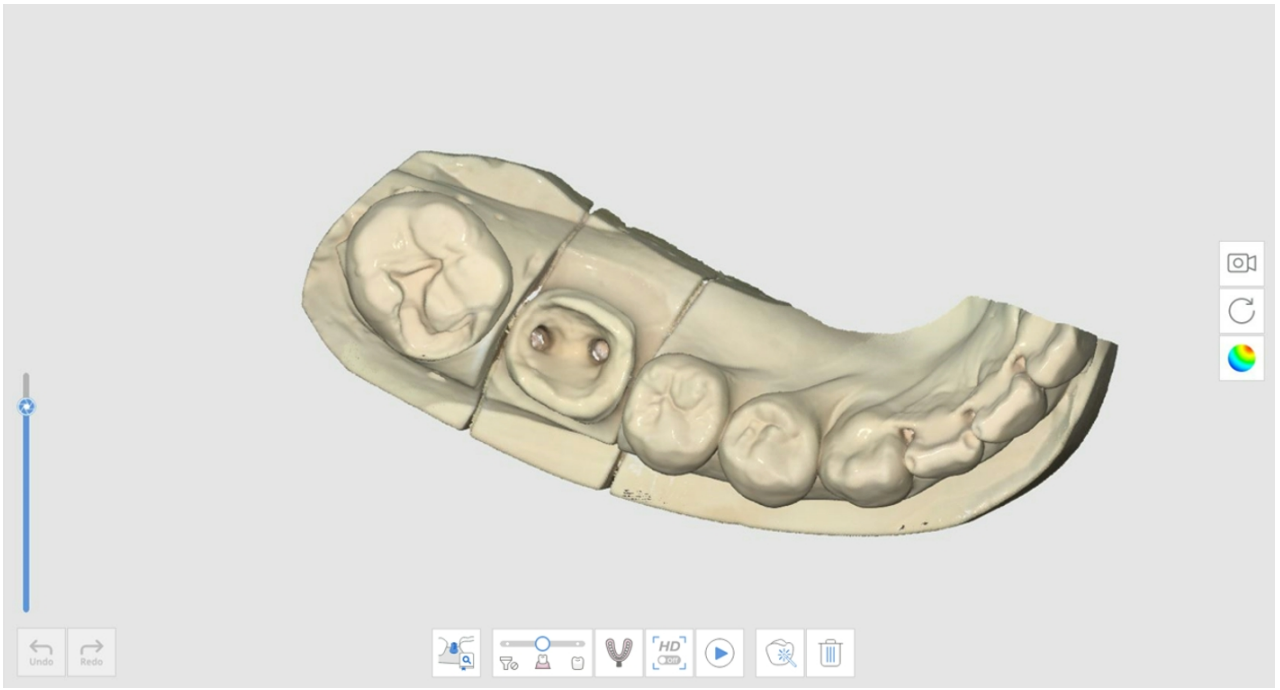
In some cases of Post & Core, it is very difficult to get the data for the post area due to the area being very deep and hard to scan. The "Impression Scan" feature is useful for these cases.

1. Prepare the base model and impression for the post.

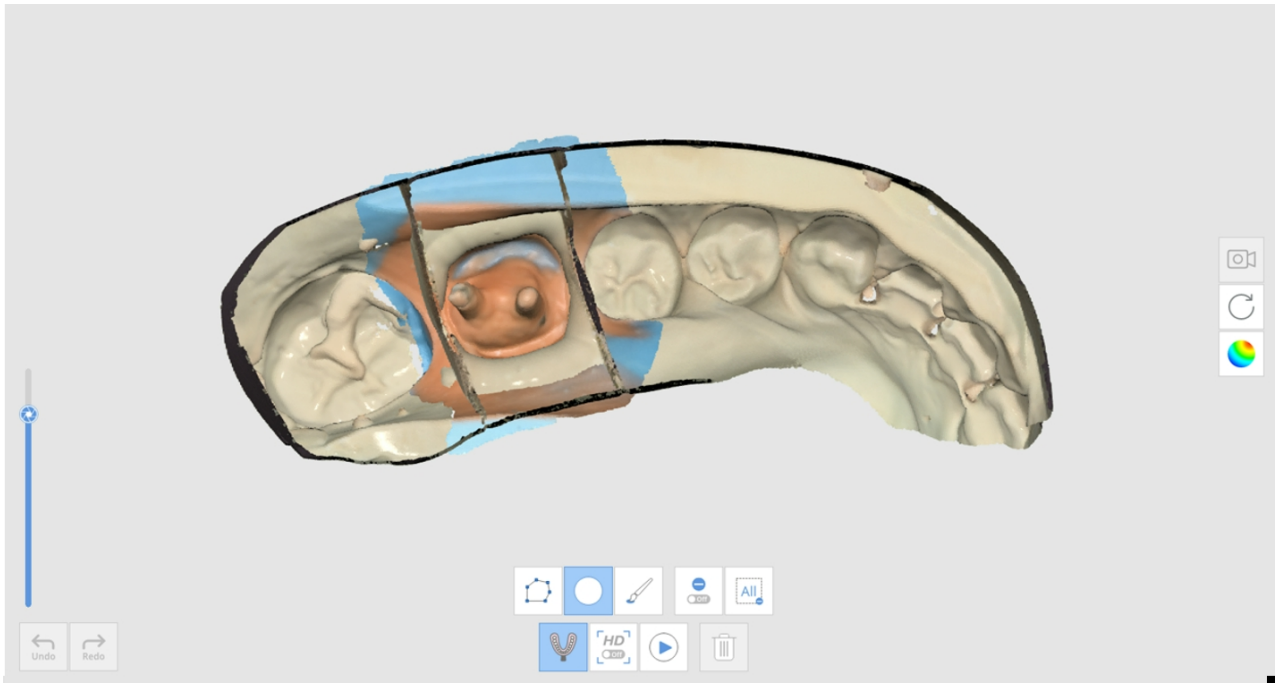




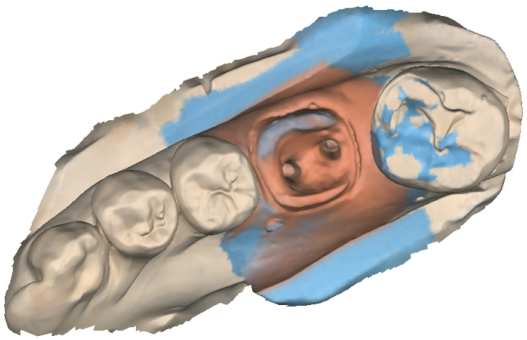
2. Scan the base model. You can see that the post area is deep and not fully scanned.

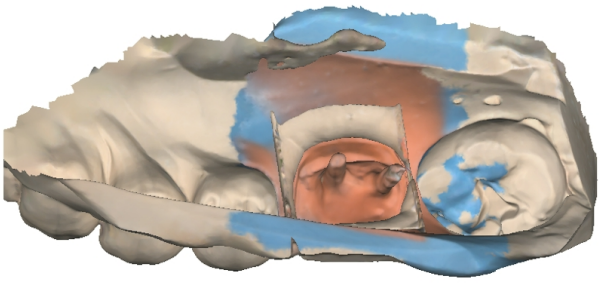


3. Click the "Impression Scan" icon and scan the impression model.



4. The result will appear as shown below.





# How to Utilize Impression Scan for Occlusion Case

You can use the "Impression Scan" feature for occlusion alignment.

1. Prepare the impression model.

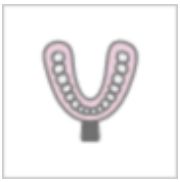




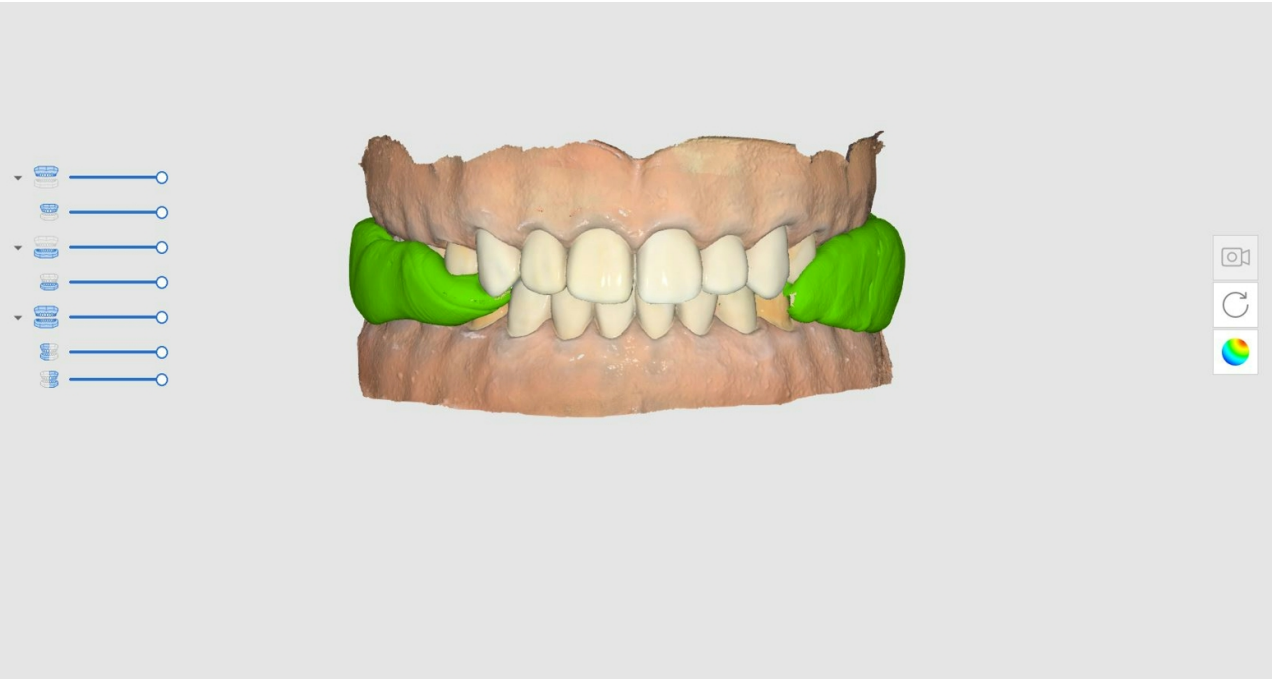
2. Scan the maxilla and mandible in the Maxilla and Mandible stages.



3. Click the "Impression Scan" icon at the Occlusion stage.



4. Acquire the occlusion data using the impression model. In this case, the impression must be scanned from all angles of 360 degrees for each bite.

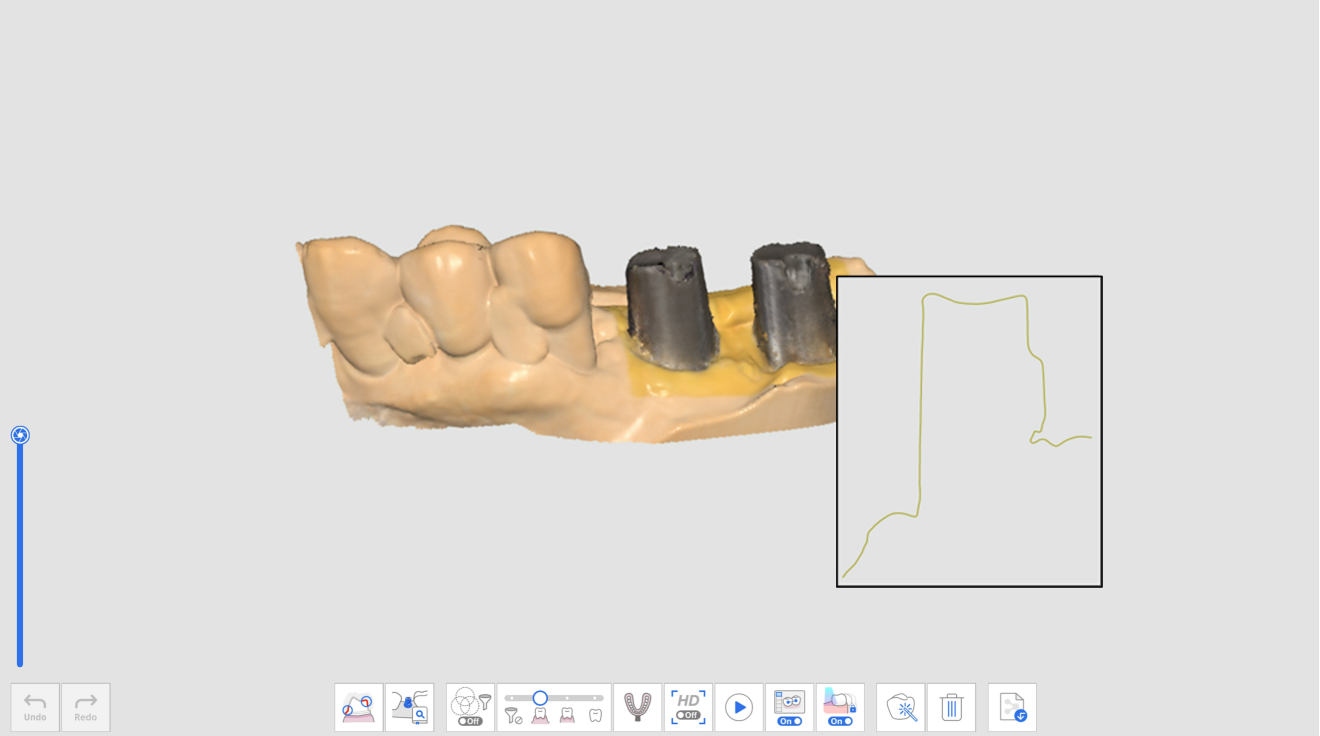


> 🔎**Note**
>
> The High Resolution Scan feature is available in Impression Scan.
>
> When impression data is acquired with high resolution, it will be shown in different colors if the Model Display Mode is set to "Texture Off."

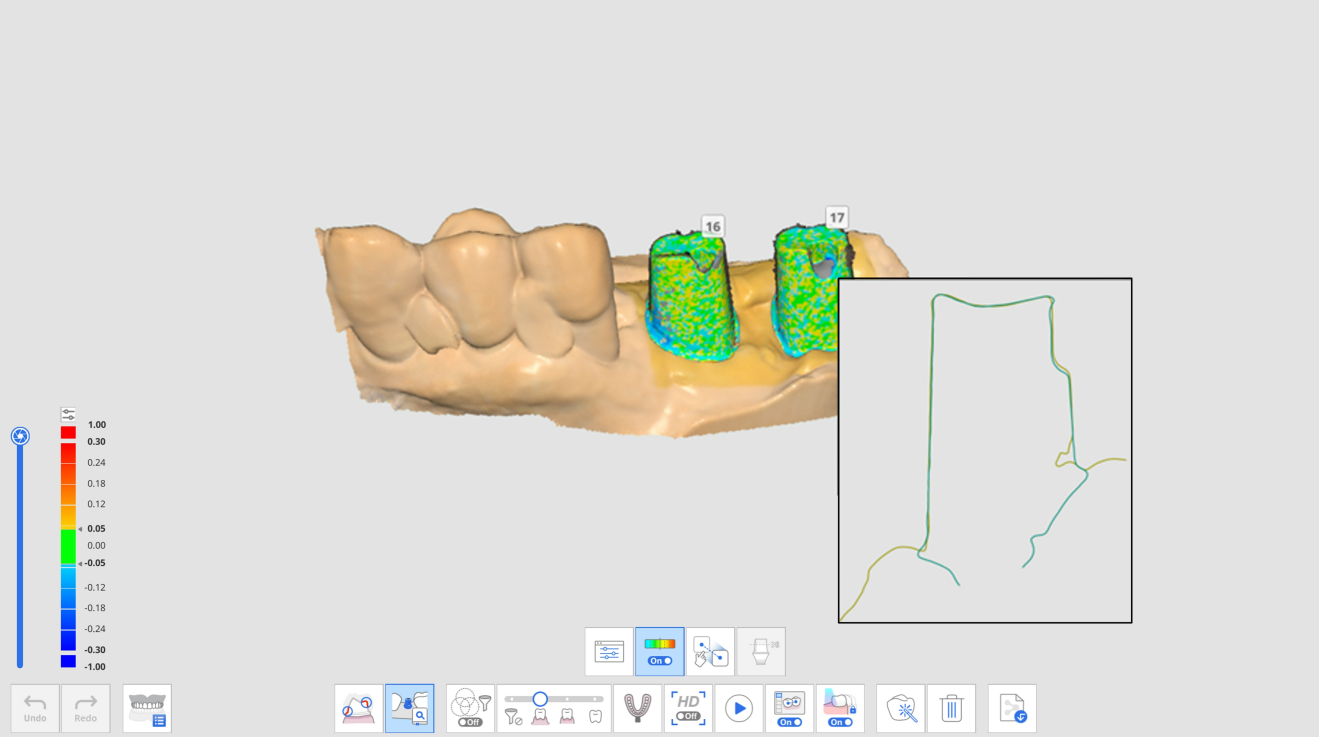
# Abutment Library Matching

> 🔎**Note**
>
> Refer to **Tools and Functions > Main Toolbar Tools** > Function Tools > Register Abutments on how to register abutments in the library.
>
> You can register custom or ready-made abutments with adjusted length, angle, etc.

You can use the library to substitute acquiring data for areas that may be difficult to reach, such as abutment margin areas located below the gingiva or areas too close to the adjacent teeth. You can acquire abutment scan data more accurately and easily this way.

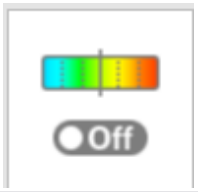
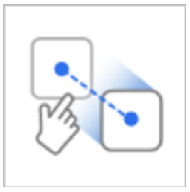



**Scanned Abutment Data**




**Abutment Data After Abutment Library Matching**

The following tools are provided for the Abutment Library Matching feature.

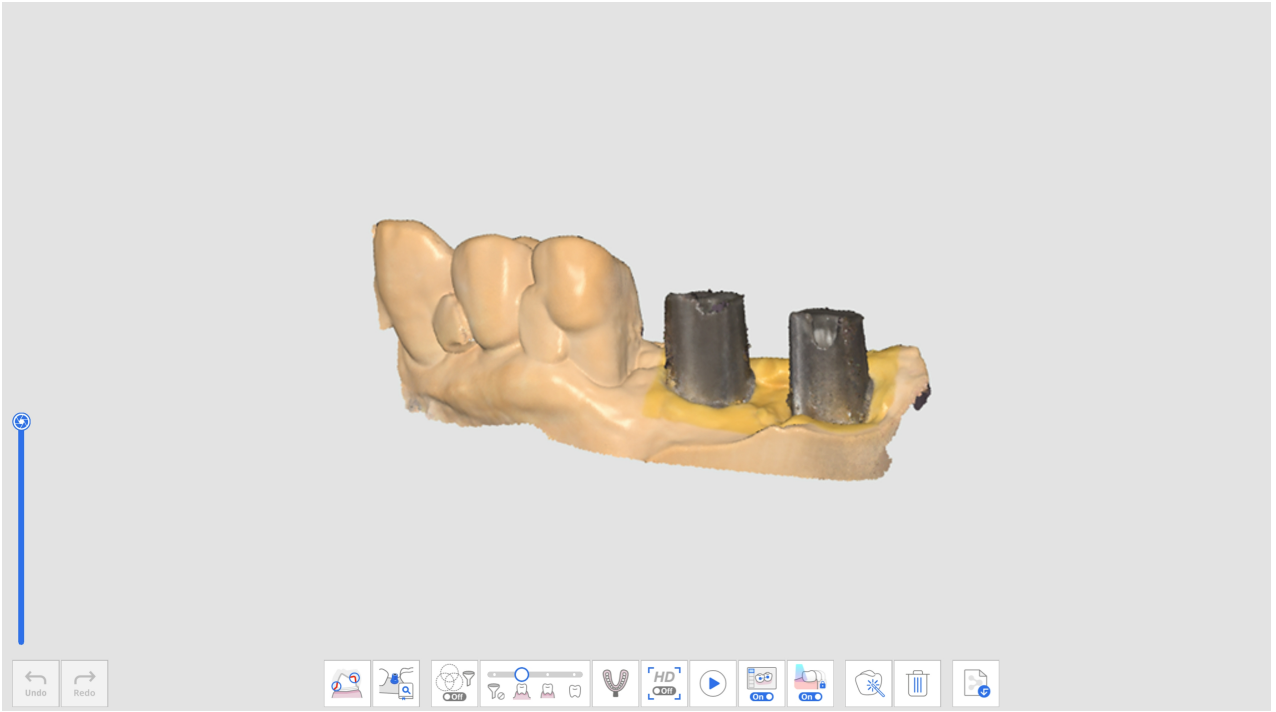
| | | |
|---|---|---|
|  | Tooth Number | Allow users to select an individual tooth number for the data acquisition target. |
|  | Abutment Library | Assign library data for each tooth and manage the library data. |
|  | Show/Hide Deviation | Show or hide the deviation between aligned data using a color map. |
|  | Manual Alignment | Allow users to align the library data and scan data manually. You can align data with one or three alignment points. |
|  | Cut Abutment Manually | Cut the abutment by adjusting the height manually. |

# How to Use Abutment Library Matching

## Assign Abutment Library

Before you scan the abutment data, you must assign the desired library to each tooth number.

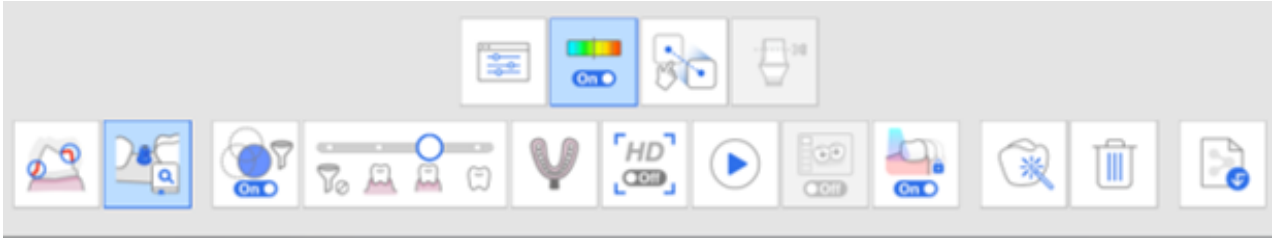
1. Acquire data in the Maxilla or Mandible stage.



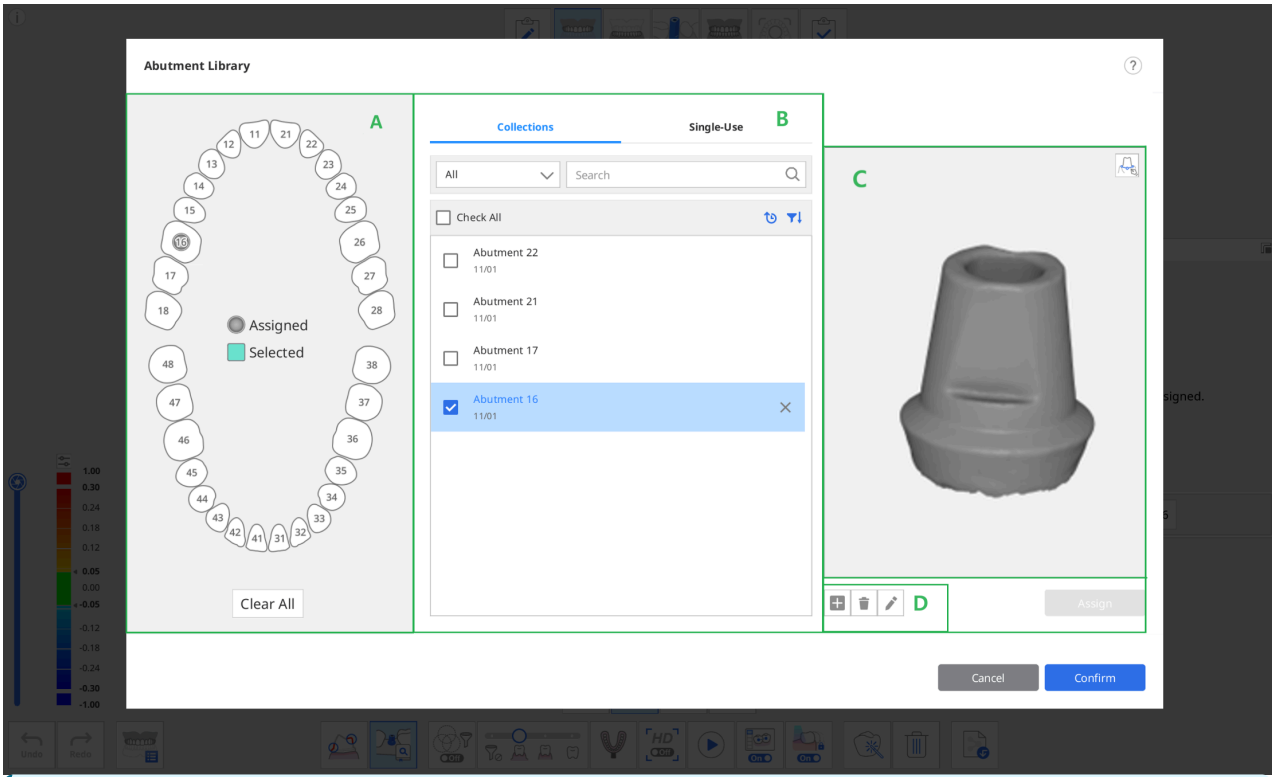
2. Click the "Abutment Library Matching" tool icon at the bottom of the Maxilla or Mandible stage.



3. Click the "Abutment Library" icon.



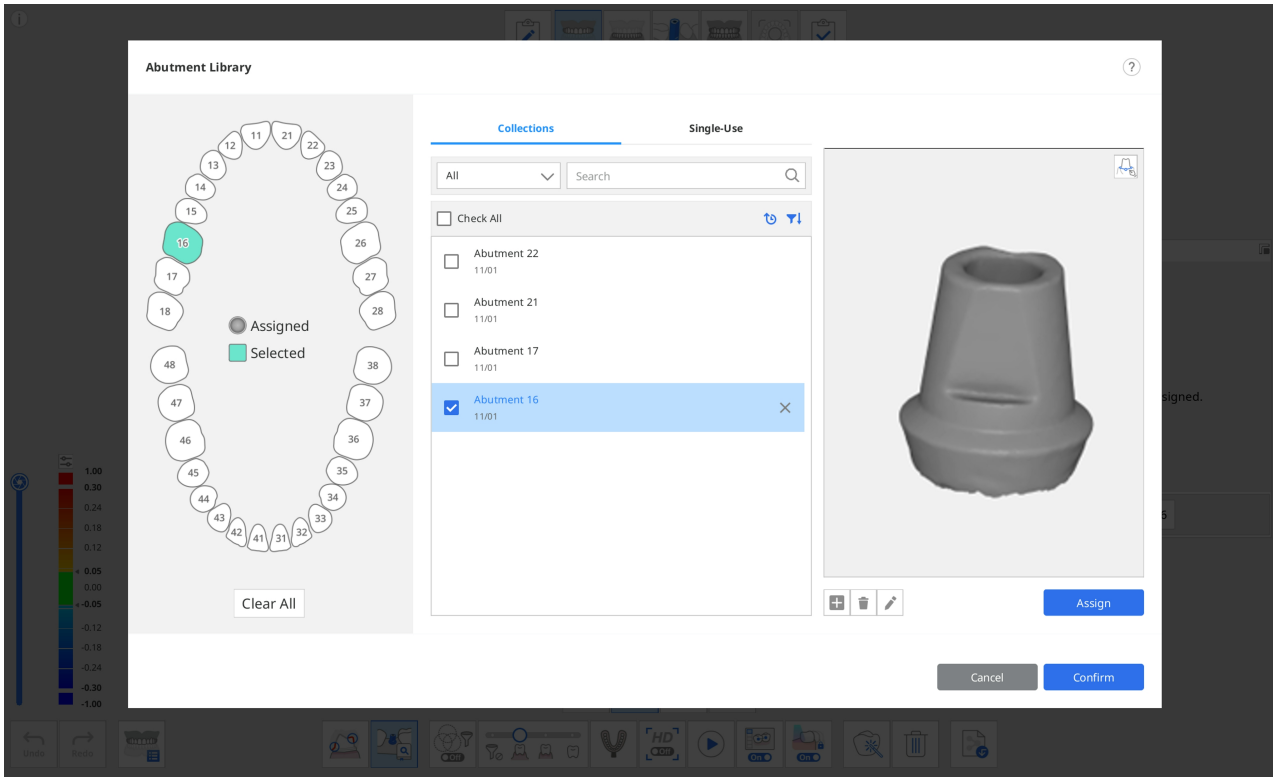
4. The following dialog appears to define the abutment library for each tooth.




The following two tabs are provided in section B for abutment library selection.

- Collections: The list of abutment libraries registered as collections so that they can continue to be used in multiple cases.
- Single-Use: The list of abutment libraries registered as single-use so that they can only be used in the case.

5. Select a tooth or multiple teeth from section A and select a library in section B.
   - You can add a new library by clicking the "+" button below the preview image. Files in STL, OBJ, and PLY formats are supported to register.
   - You can also delete the selected case or edit a case name by clicking the "Delete" or "Edit" button below the image.
6. Check the selected library in the 3D preview in section C. You can rotate, move, zoom in, and zoom out.




7. You can also register the abutment with a margin line by clicking the Margin Line icon on the upper right corner of the preview.

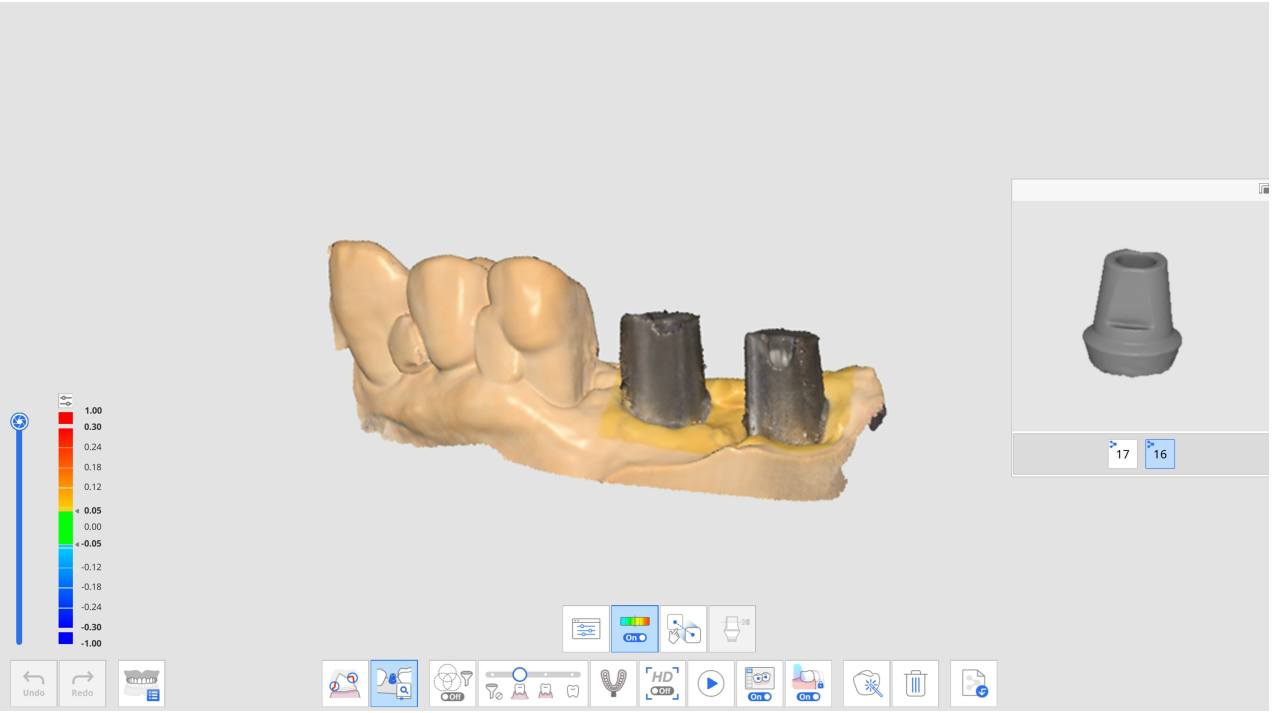
> 🔎**Note**
>
> Refer to **Tools and Functions > Main Toolbar Tools** > Function Tools > Margin Line for detailed information on how to draw a margin.

8. Click "Assign" to assign the selected abutment to the selected tooth number.
9. After assigning all required libraries, click "Confirm."

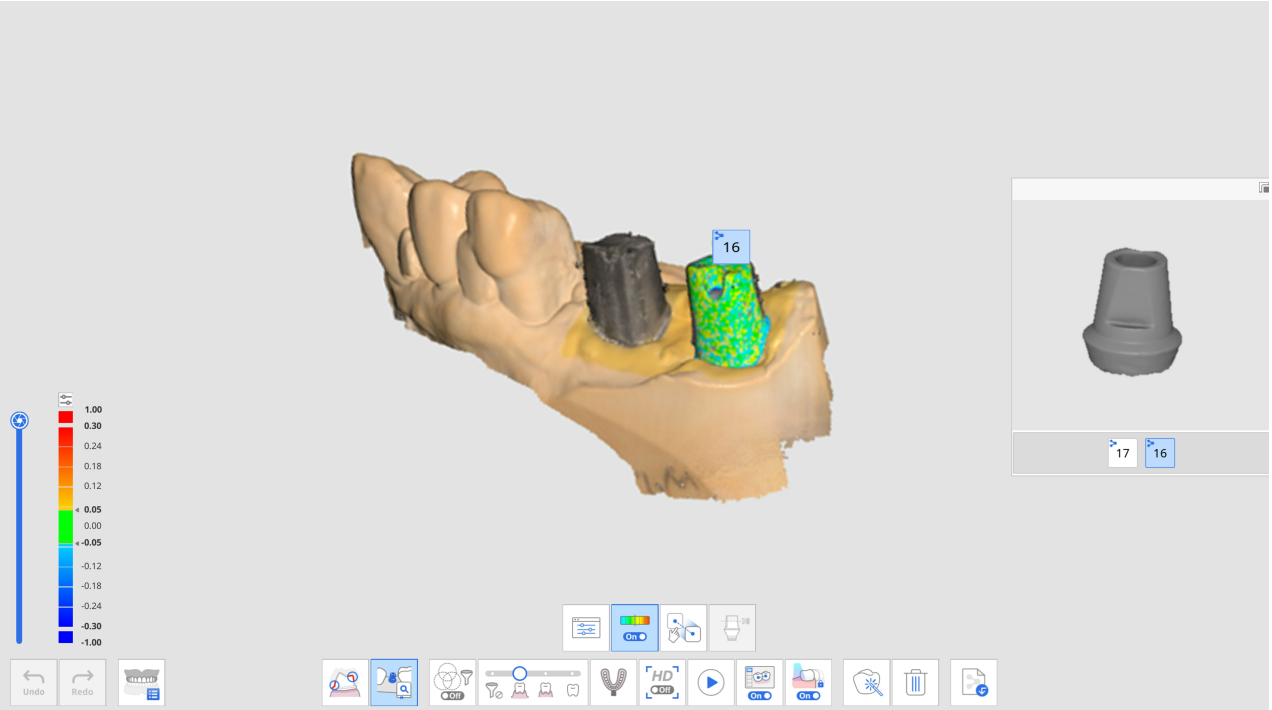
# Align Abutment Library

Once you assign a library to a tooth number, the Abutment Library Matching will automatically align the library to the scan data while scanning.

1. Turn on the "Abutment Library Matching" tool at the bottom of the screen.
2. While scanning the data, the program automatically attempts to align the library you assigned for the tooth number to the acquired scan data.



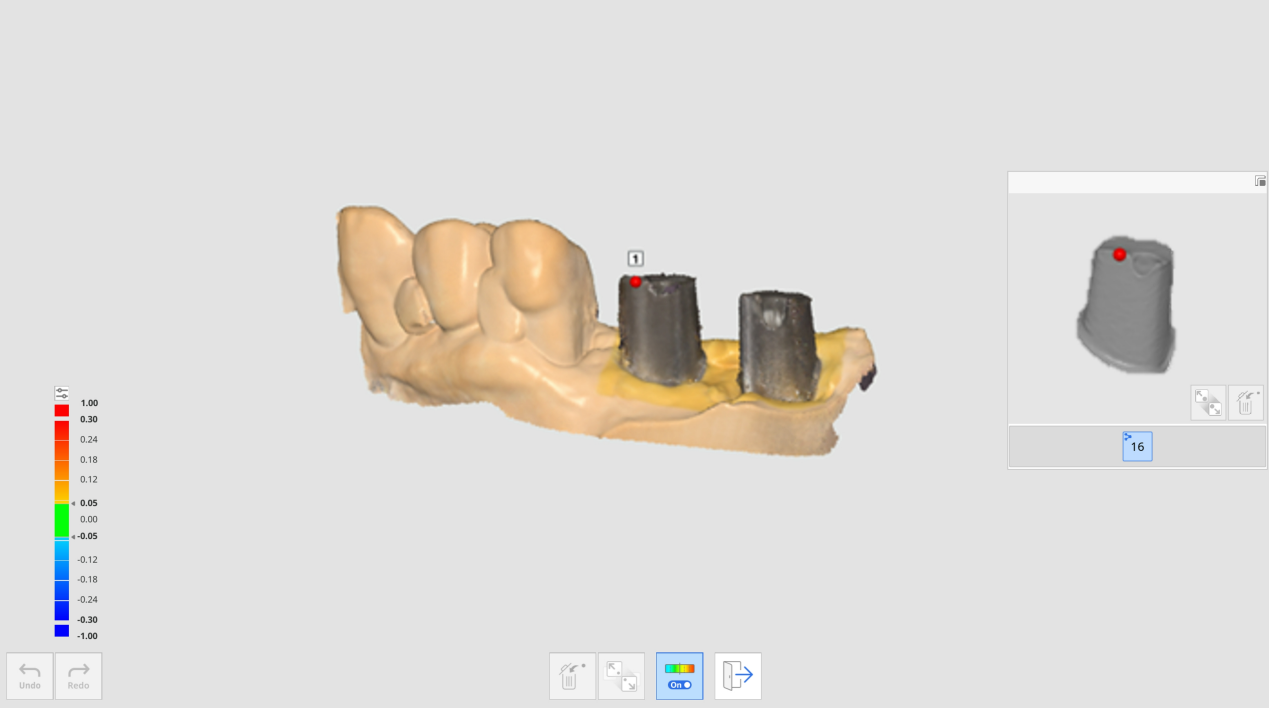

3. Once an abutment library is aligned, you can check the scan data and library deviation through the color map.




4. Repeat to select another tooth number in the preview to align more abutment libraries.
5. After the scanning, you can manually align any libraries that were not automatically aligned during the scan.
6. Click the "Manual Alignment" icon.



7. Click one to three corresponding alignment points on the library data for the selected tooth number in the library preview and the scan data.

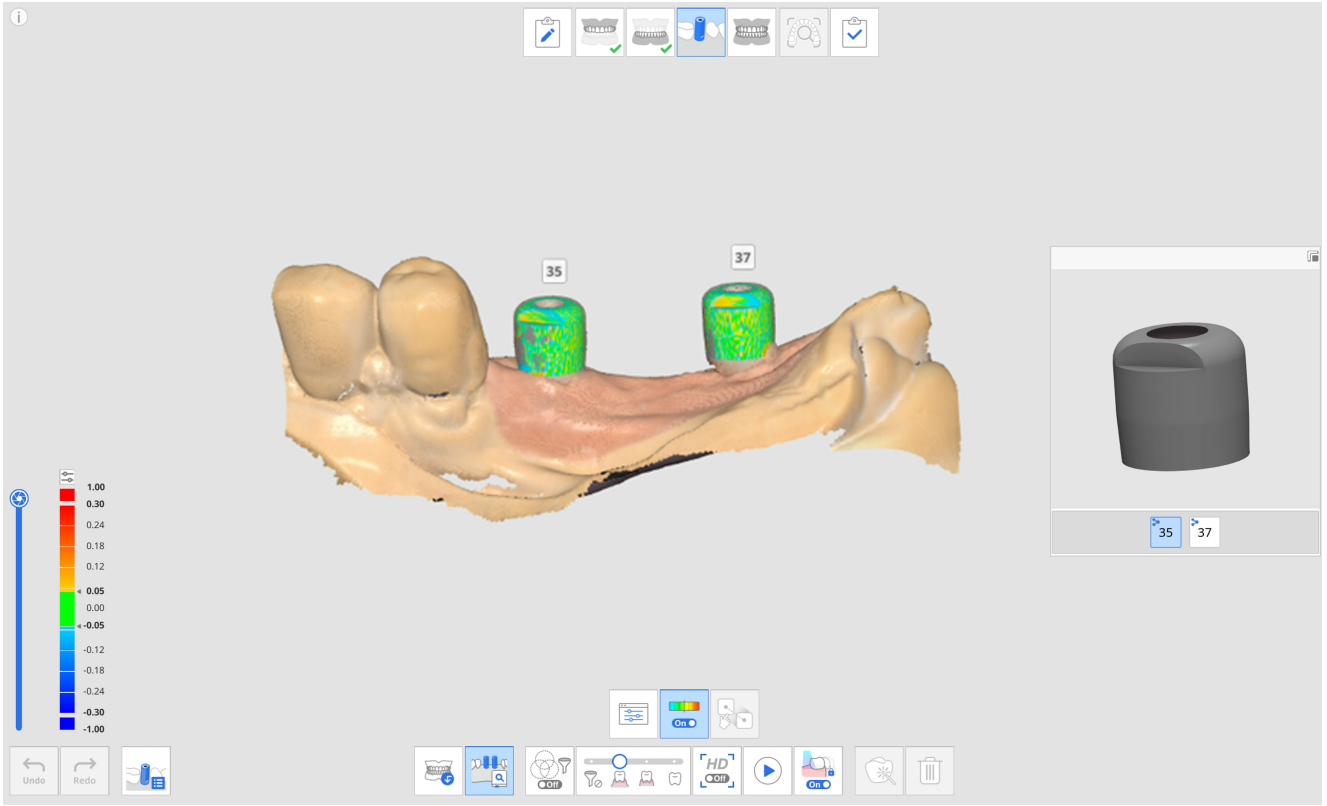



8. After completing manual alignment, click "Exit" to check the aligned libraries.
9. If abutments are touching each other when fastened together, you can use the "Data Group for Library Alignment" icon at the bottom. With this feature, you can create a new data group to acquire scan data and align the abutment libraries assigned to each tooth number.

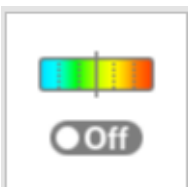
# Scan Body Library Matching

The Scan Body Library Matching feature is useful when scanning difficult-to-reach areas, such as a narrow implant area or metal scan body materials.

By scanning the scan body fastened to the implanted fixture, you can replace the scan body data with the library data to accurately reproduce the position and angle of the implant.




The following tools are provided for the Scan Body Library Matching feature.

| | | |
|---|---|---|
|   | Tooth Number | Allow users to select an individual tooth number for the data acquisition target. |
|  | Scan Body Library | Assign library data for each tooth and manage the library data. |
|   | Show/Hide Deviation | Show or hide the deviation between aligned data using a color map. |

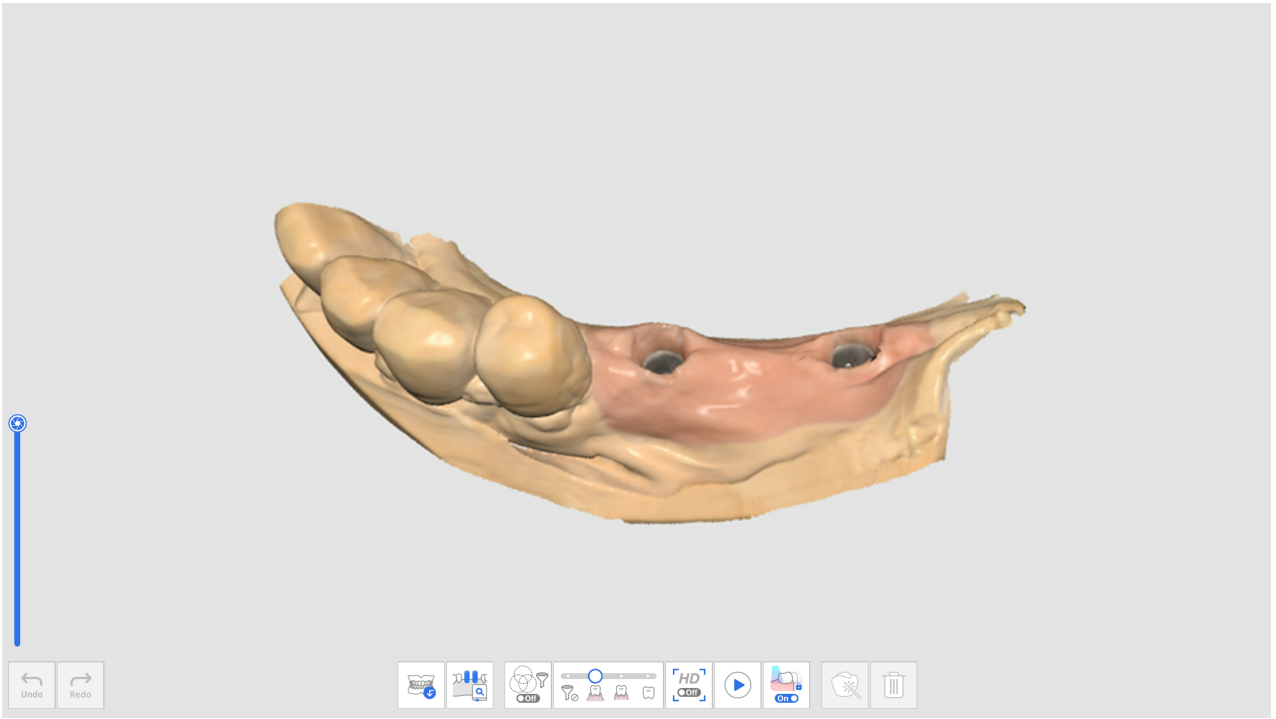
| | | |
|---|---|---|
|  | Manual Alignment | Allow users to align the library data and scan data manually.<br><br>You can align data with one to three alignment points. |

# How to Use Scan Body Library Matching

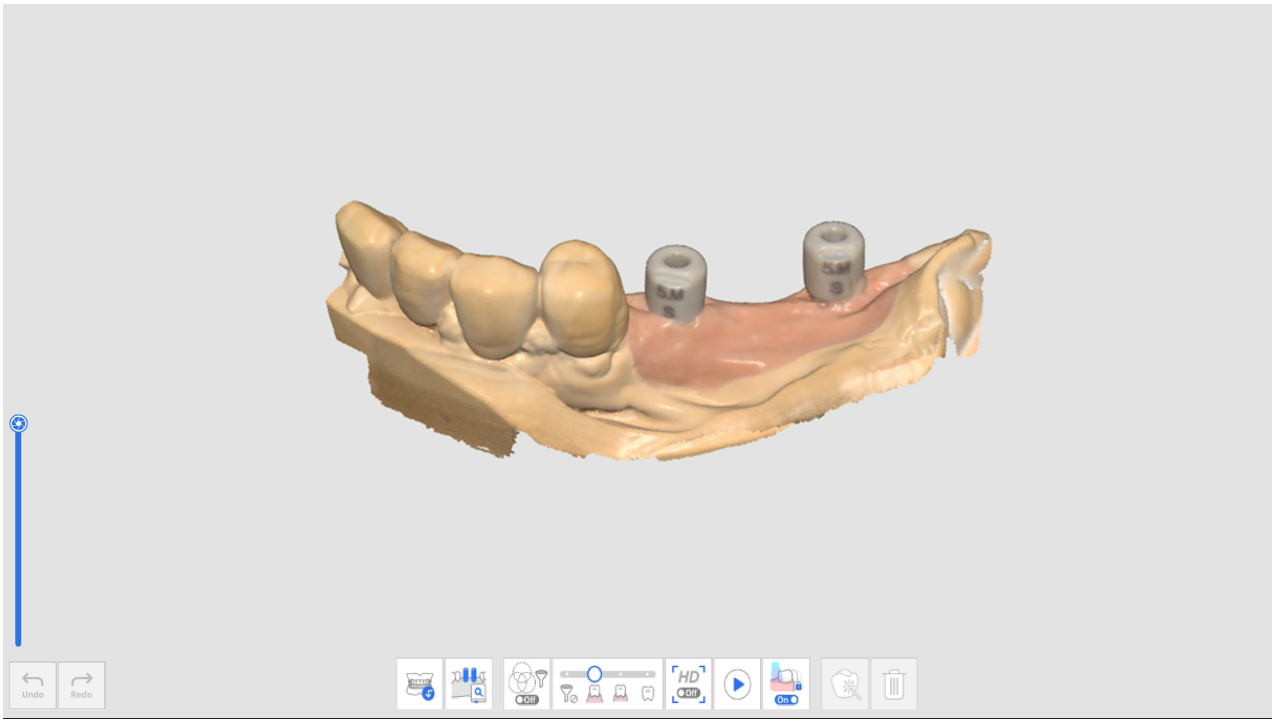
## Assign Scan Body Library

Before you acquire the scan body data, you must assign the desired library to each tooth number.

1. Acquire data in the Maxilla or Mandible stage before fastening the scan body.



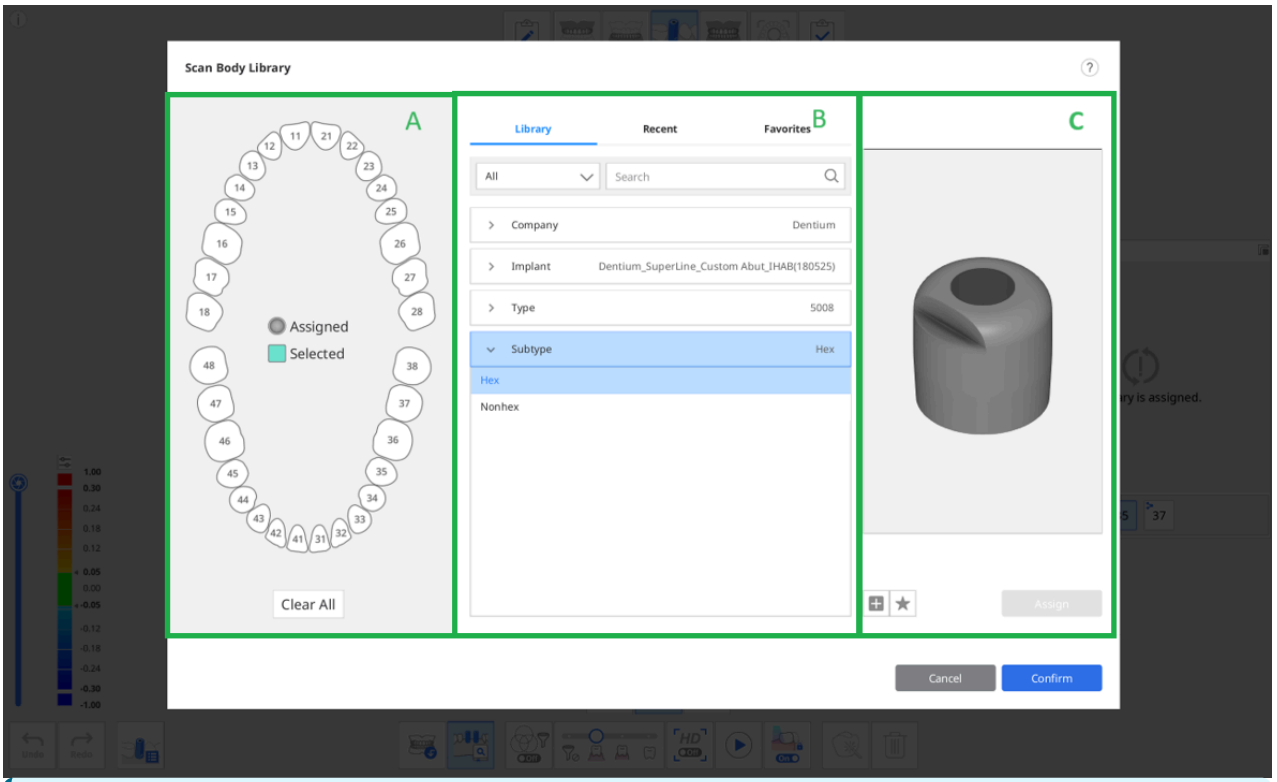

2. Move to the Scan Body stage and obtain scan data after fastening the scan body.
3. Click the "Scan Body Library Matching" tool icon at the bottom of the screen.



4. Click the "Scan Body Library" icon.



5. The following dialog appears to define the scan body library for each tooth.




The following three tabs are provided in section B for scan body library selection.

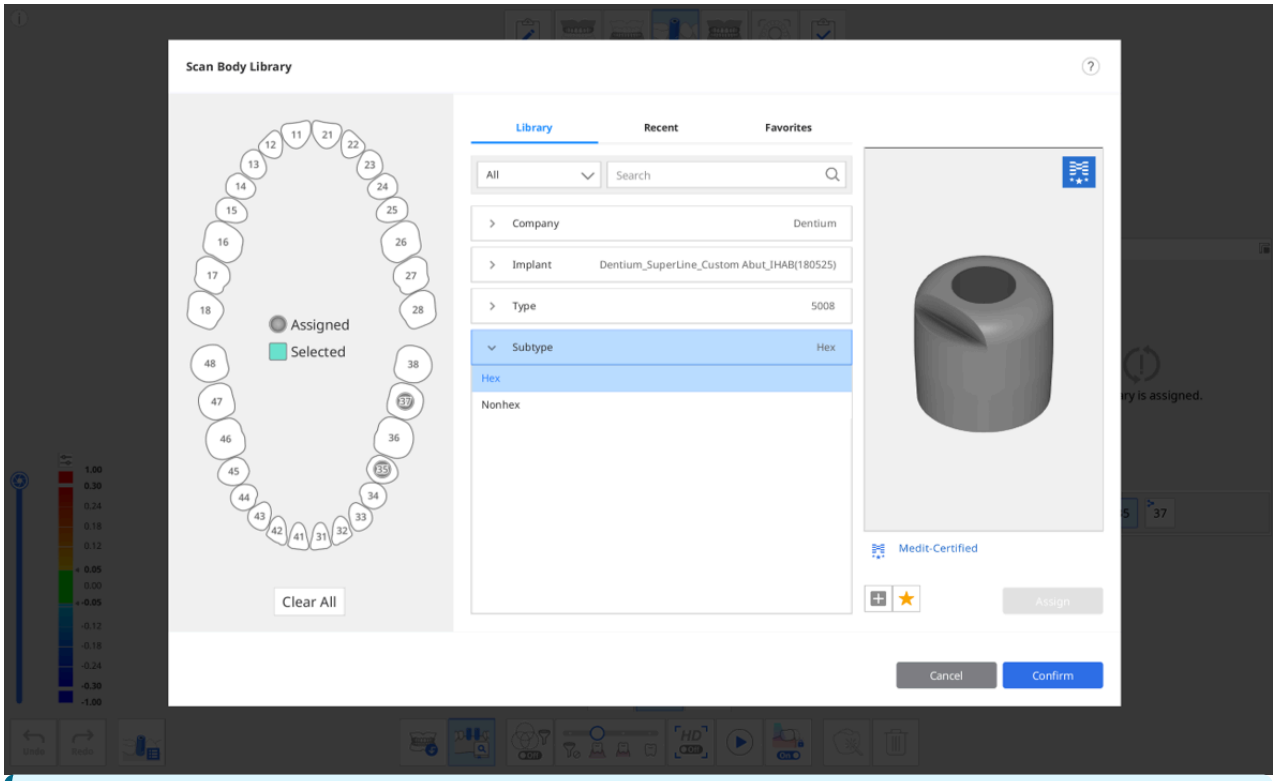
- Library: All registered scan body libraries are listed by Company, Implant, Type, and Subtype. You can search for scan body libraries by entering their name.

- Recent: The most recently used scan body libraries are listed with the date of last use.
- Favorite: The starred scan body libraries are listed. You can add a scan body library to the Favorite tab for easy access by clicking the "Add to Favorite" icon below the preview image.

6. Select a tooth or multiple teeth from section A and then select a library in section B to assign.

> You can add a new library by clicking the "+" button below to preview the image. Files in STL, OBJ, and PLY formats are supported to register.

7. Check the selected library in the 3D preview. You can rotate, move, zoom in, and zoom out.




**Medit-Certified**

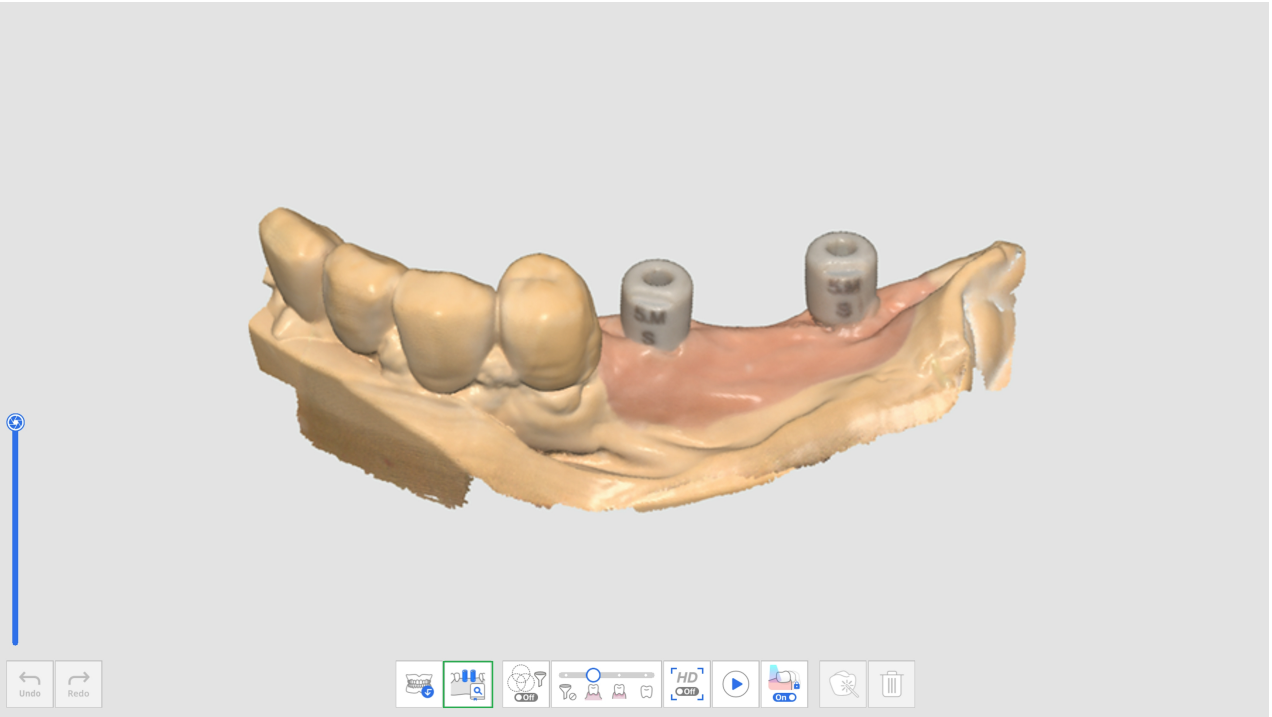
The scan body libraries with the Medit logo on the upper right corner apply an algorithm optimized for scan body library alignment to minimize the impact of scan error due to the processing and material of the scan body manufacturer.

8. Click "Assign" to assign the selected scan body to the tooth number.
9. After assigning all required libraries, click "Confirm."

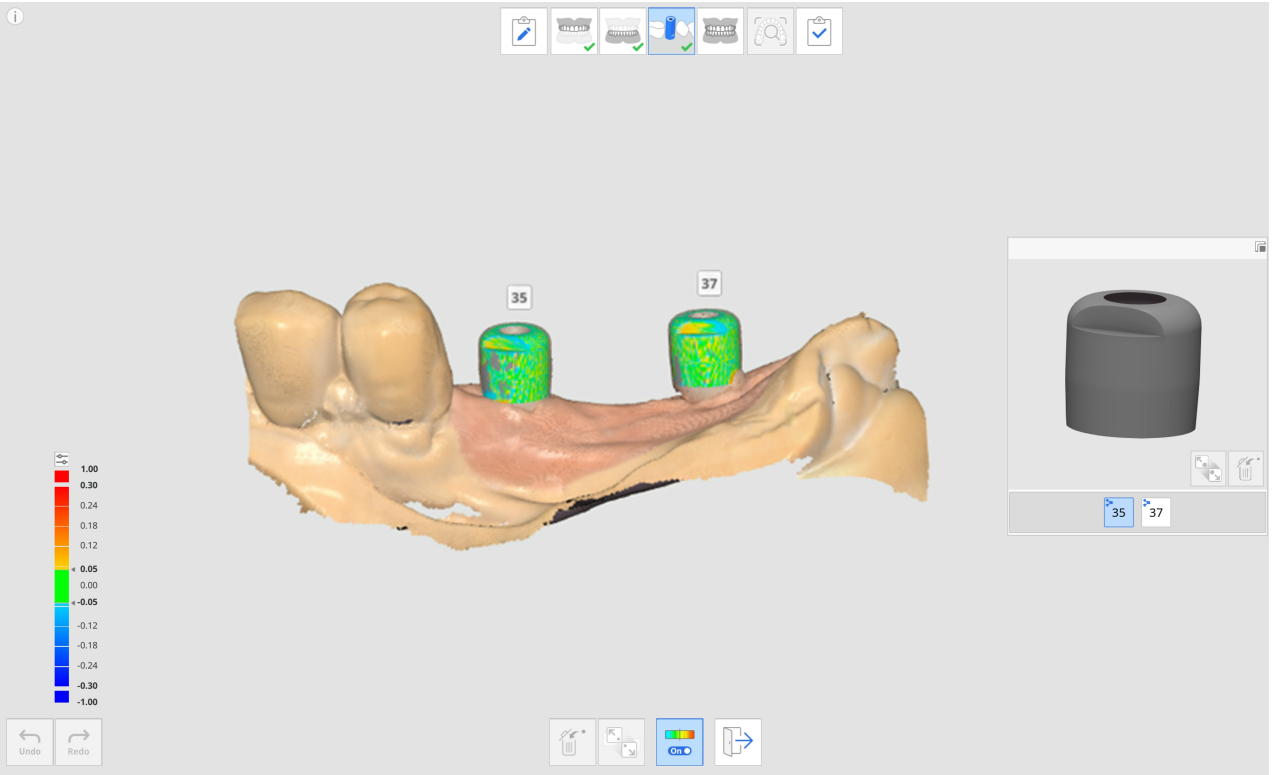
## Align Scan Body Library

Once you assign a library to a tooth number, the Scan Body Library Matching will automatically align the library to the acquired data while scanning.

1. Turn on the "Scan Body Library Matching" tool at the bottom of the screen.



2. While scanning the scan body data, the program automatically attempts to align the library you assigned for the tooth number to the acquired scan data.
3. Once a scan body library is aligned, you can check the scan data and library deviation through the color map.




4. Repeat to select another tooth number in the preview to align more scan body libraries.
5. After the scanning, you can manually align any libraries that were not automatically aligned during the scan.
6. Click the "Manual Alignment" icon.



7. Click one to three corresponding alignment points on the library data for the selected tooth number in the library preview and the scan data.
8. After completing manual alignment, click "Exit" to check the aligned libraries.
9. If scan bodies are too close to each other or touching each other when fastened together, you can use the "Data Group for Library Alignment" icon at the bottom. With this feature, you can create a new data group to acquire scan data and align the scan body libraries assigned to each tooth number.

# Preparation Review

The "Preparation Review" icon appears only when the following product has been registered in the Medit Link form.

- Crown
- Pontic
- Post & Core
- Implant Crown
- Post & Core and Crown
- Post & Core and Coping

The Preparation Review icon is located at the bottom of the Maxilla and Mandible stages and is enabled when enough scan images have been acquired in each stage.



The following tools are available for the Preparation Review feature.

| | | | |
|---|---|---|---|
| | Preparation Review Settings | | Set options for preparation review. This allows users to enter their own values for the criteria to determine if the tooth reduction is insufficient. |
| | Insertion Path | | Calculate the insertion path for the area selected in the prepared data. |
| | Auto Direction | | Automatically calculate and display the insertion path in the direction where the undercut area is minimized. |
| | Manual Direction | | Calculate and display the insertion path in the direction of the user's viewpoint. |
| | Distances | | Mark areas with insufficient tooth reduction compared to the set values. |
| | | Tooth Reduction Depth | Show the amount of tooth reduction compared to the pre-op data.<br>* Pre-op data must exist and be aligned with prepared data to use this tool. |
| | | Distance to Antagonist | Show the distance between the prepared tooth and its antagonist based on the occlusion alignment data.<br>* Antagonist and occlusion data must exist, and occlusion data must be aligned to use this tool. |
| | | Distance to Adjacent | Show the distance between the prepared tooth and its antagonist.<br>* This tool is available only with prepared data. |

# How to Use Preparation Review

# Preparation Review Settings

Before conducting the Preparation Review, you can set the options and criteria for the feature in the Preparation Review Settings.

The settings dialog allows users to enter minimum values for distance to the antagonist, distance to the adjacent, and tooth reduction depth to help them establish tooth preparation criteria for treatment and prosthetic fabrication.

# Utilizing Preparation Review Tools

1. Acquired scan data in the Maxilla or Mandible stage and click the Preparation Review tool icon.
2. Select an area on the prepared teeth data using the area selection tools.
3. If you click the Insertion Path icon, an insertion path is automatically created in a direction where undercut areas are minimized.
4. You can change the insertion direction by clicking and dragging the arrow or using the Manual Direction tool. Based on the insertion path, undercut areas are displayed on the data.
5. Click the Distances icon and select one of the following tools.
    - Tooth Reduction Depth
    - Distance to Antagonist
    - Distance to Adjacent
6. The areas with insufficient tooth reduction in the scan data are shown in red.
7. When hovering the mouse over the red area, an image of the insufficient item and its value will be displayed.
8. With the displayed values, the user can plan whether additional tooth preparation is needed and how much more to remove.
9. After additional tooth preparation, you can trim the area and acquire additional scan data. Then, you can go through the Preparation Review again for final confirmation.

# Medit SmartX Workflow

The Medit SmartX Workflow is a sequence of scan stages designed to streamline and optimize the scanning process for all-on-X treatment cases, which involves placing a limited number of implant fixtures in fully edentulous patients and further fabrication of the prosthetics. The default workflow guides the user from scanning the scan bodies and arches to pre-operational and occlusion data as shown below.

- The default workflow is recommended, but users can customize it by rearranging the stages, removing them, or replacing them as needed.
- The Medit SmartX Workflow is also available in the Simple UI mode.

> 🔎**Notes**
>
> - If you are working with a single arch, you can skip the data acquisition in the scan body step.
> - This feature is not supported on the iE scanner model.

## How to Enter Medit SmartX Workflow

There are two ways to start working in the Medit SmartX Workflow. The first is to enter it through a banner in the bottom right corner of the overview screen.

And the second is by clicking the "Medit SmartX Workflow" button in Stage Management.

> ⚠️**Caution**
>
> Any data collected in the scan stages before starting the "Medit SmartX Workflow" will be lost.

Once the scanning sequence is entered, users are greeted by guide messages explaining and introducing the scanning process.

## How to Use Medit SmartX Workflow

1. After the introductory messages about enabling the scanning sequence for the all-on-X case, you will enter the Mandibular/Maxillary Scan Body stage. You will be prompted to the Scan Body Library to assign what scan body you're using for this case.

2. Then, begin scanning the physical scan body. Once you have captured enough data, the program will automatically align the scanned data with the corresponding data from the library.

> 🔎**Note**
>
> If the automatic alignment fails for any reason, use the "Manual Alignment" tool to select 3 corresponding points on both sets of data and align them.

When done, the result will look as shown below.

3. When done, move to the next stage at the top of the screen—Mandible/Maxilla. The operational data of the arch that was acquired in the previous step, together with the scan body, is replicated into this stage. Scan again, focusing on the multi-unit abutments (MUAs) and the inner side of the gingiva to complete the data for this stage. Alignment with the scan body data will be performed automatically.

> 🔎**Tip**
>
> Use the trimming tools from the left-side menu to clean up data if needed.

4. The next step depends on what appliance is available to you for scanning.
Upon entering Pre-Op for Mandible/Maxilla, you will be instructed to attach the provisional bridge before scanning. If a provisional bridge is available, secure it in place and scan the oral cavity. Make sure to scan the provisional bridge and the exposed gingival areas not covered by the bridge.

- If you plan to use the denture instead, check the confirmation box in the pop-up message before proceeding. The scan stage for acquiring denture data will automatically appear in your workflow at the top of the screen. Scan the entire denture, including the fitting surface, and use the provided tools to align it with the edentulous data.

  > 🔎**Note**
  >
  > If you choose to scan the denture, the Mandible/Maxilla scan stage will update to Endentulous Mandible/Maxilla. All previously acquired data is preserved.

5. Finally, in the Occlusion scan stage, acquire the bite scan and align it with the relevant stage (e.g., Mandible/Maxilla, Pre-Op for Mandible/Maxilla, or Mandibular/Maxillary Denture stage).

6. Review your captured data and make sure it is all aligned before clicking the Complete stage and moving to data processing and saving.

# Realtime Intelligence

**Paid Feature**

This feature requires a paid subscription.

Realtime Intelligence automatically identifies prepared teeth in the scan data and reviews both the full scan and the preparation areas against key requirements for restorative cases. It provides immediate, easy-to-understand feedback, allowing users to assess data quality in real time and make on-the-spot adjustments to support more accurate design work later.

When scanning stops, the program automatically checks for prepared teeth. If any are detected, the preparation and scan data review is performed, and several HD images of the target teeth are captured. If no prepared teeth are identified, only the scan data review is performed. Based on the preparation and scan data review results, the program suggests additional review actions to help ensure scan completeness and adequate preparation for restorative cases.

Realtime Intelligence is supported exclusively for crown, inlay/onlay, bridge cases and is not applicable to veneer cases. Therefore, the feature icon is not available in stages other than the Pre-Op Stage, Maxilla/Mandible Stage, and Occlusion Stage.

The table below summarizes the review categories, suggested review actions, and their corresponding explanations.

| Review Category | Review Action | Details |
|---|---|---|
| Clearance | Verify Occlusal Space | Measures the distance to the opposing teeth to verify that sufficient space is available for prosthesis fabrication. Default threshold can be set in the Settings > Preparation Review. |
| | Verify Interproximal Space | Checks the distance to adjacent structures to verify that sufficient space has been created for prosthesis fabrication. Default threshold can be set in the Settings > Preparation Review. |
| | Verify Reduction Depth | Compares pre- and post-preparation to determine how |

| Review Category | Review Action | Details |
| --- | --- | --- |
| | | much additional reduction is needed based on the ideal thickness of the prosthesis. Default threshold can be set in the Settings > Preparation Review. |
| Preparation | Correct Undercuts | Displays undercuts based on the automatic insertion axis. Blue-highlighted areas indicate regions where interference may occur during prosthesis insertion. |
| | Inspect Margin Line | Visually represents the convexity, concavity, and roughness around the margin line. This helps re-evaluate the margin line and assess the smoothness and uniformity of the preparation surface in the margin area. Areas closer to red indicate more convex regions, while areas closer to blue indicate more concave regions. |
| Occlusion | Check Occlusion Balance | Checks distances and contact points across the bite to detect contact interferences and possible uneven force distribution. |
| | Analyze Occlusal Patterns | Compares occlusion before and after preparation. |
| Scan Data | Capture More Data | Indicates areas with insufficient scan data. After the prepared teeth are detected, the review focuses on clinically relevant regions, including the prepared teeth and 1–2 adjacent teeth. Rescan the highlighted areas to ensure complete and accurate scan data. |
| | Clean Overlapping Data | Indicates areas with overlapping (multilayered) scan data, which may be caused by blood, saliva, tooth movement, or improper |

| Review Category | Review Action | Details |
| --- | --- | --- |
| | | scanning technique. Users can delete affected areas and rescan, or use “Optimize” to realign and review the data. Once prepared teeth are detected, the review focuses on clinically relevant regions, including the prepared teeth and their 1–2 adjacent teeth. If no prepared teeth are detected, layered data is displayed across the entire dental arch. |
| HD Images | Auto Capture | Captures up to 5 images per prepared tooth from multiple directions - occlusal, buccal, lingual, mesial, and distal. |
| | Manual Capture | In the Smart Scan Review stage, users can review live-view images captured during scanning and create HD captures of any desired area by clicking on it after enabling “Manual Capture” in the bottom-right corner. |

🔎**Notes**

- Clearance-related information is displayed when values fall below the default threshold set in the introductory dialog window. This threshold can be adjusted in Settings. Areas below the threshold are highlighted in red; hover over these areas to view the exact distance.
- Review results can be used as a reference when cleaning up data with the Trimming Tools (Quick Trimming).
- Manual Captures are available only if the Smart Scan Review stage is included in the workflow.
- Available on the iE scanner with a separate subscription.

⚠️**Caution**

The visibility of some review results may vary depending on the scan stage order. To ensure these results are displayed correctly, follow the recommended workflow setup.

**Recommended Workflow Setup**

The display of the above review items depends on the availability of pre-operative and occlusion scan data. Therefore, when using this feature, follow the recommended scan stage configuration to obtain more comprehensive results and ensure a smoother workflow. Note that if you customize the workflow differently, some review items may not be considered by the program, and the feature icon may not appear in certain scan stages.

- For cases with pre-op data, place the scan stage with the target prepared tooth (Maxilla/ Mandible) at the end of the workflow.
  *Examples:*
- For cases without pre-op data, place the Occlusion Stage at the end of the workflow.
  *Examples:*

🔎**Notes**

- This feature is also available in the Simple UI mode.
- When using SmartX Workflow, Realtime Intelligence is not supported and cannot be used simultaneously.

**Data Review Criteria**

For the most reliable review results, make sure the minimum required number of capture shots is collected before performing a data review.

- Scanning can be performed on one or both arches, and the system automatically identifies the scan type.
- If the minimum number of shots has not been reached, you can still perform a review by clicking “Analyze Anyway".” However, additional scan data may be required for a more reliable review.

| Scanner Model | Scanning Experience | Full Arch | Partial Arch |
|---|---|---|---|
| i900 Mobility / i900 classic / i900 / i700 wireless / i700 | Fast & Furious | At least 2,500 shots | At least 1,500 shots |
| i900 Mobility / i900 classic / i900 / i700 wireless / i700 / i600 | Smooth & Steady | At least 1,500 shots | At least 800 shots |

⚠️**Caution**

The minimum number of required data capture shots is subject to change without prior notice.

# How to Use Realtime Intelligence

If subscribed, the feature can be controlled in Settings > Scan Data Analysis > Enable Realtime Intelligence. When enabled, the feature status icon appears in color in the title bar.

The feature's main icon appears in the bottom-right corner at each scan stage. Click it to show or hide the review content and guide messages.

Realtime Intelligence operates on the same core principles regardless of the chosen workflow setup. To illustrate the process, this guide uses the example of a mandibular crown case where pre-operative dental data is available for scanning.

In this scenario, the scan stages are performed in the following order as suggested by recommendations given above: Pre-Op for Mandible → Maxilla → Occlusion → Mandible



Example Workflow Sequence

1. **Acquiring the pre-operational and antagonist data**
   Once scanning stops, the scan data review begins automatically. During this step, only scan review items are displayed in the bottom-right corner. Review the results and feedback, and adjust the scan data as needed.

2. **Acquiring the occlusion data**
   For single-arch cases, capturing only "First Occlusion" is sufficient. For dual-arch cases, both "First Occlusion" and "Second Occlusion" data must be acquired to begin the review process.
   Depending on the type of arch data being aligned, either one preparation review item (Verify Occlusal Space) will be displayed or none at all. If prepared teeth data is not captured before occlusion data, this prep review will not be shown during the Occlusion stage. It will only be calculated and displayed in the following stage once prepared teeth data is included. If the value displayed during the Occlusion stage, it will also carry over to that stage where prepared teeth data exists, allowing users to view the Verify Occlusal Space in that stage as well.

> 🔎**Note**
>
> Depending on the “Multi Occlusion Group,” occlusal alignment varies, and the review of clearance to antagonists is displayed for each group accordingly.

3. **Acquiring the prepared teeth data**
   When pre-operational data is available, it is automatically copied into the current scan stage. Here, users can either trim and rescan only the prepared teeth area or scan over the existing data. In both cases, preparation review items will be shown once prepared data is available.

   When scanning stops, the prepared areas are evaluated against the target criteria. The results, along with the captured HD images, are displayed in the bottom-right corner of the screen. Users can review the results for each tooth individually or view them collectively for all prepared teeth.

- Click “Find All” to select all prepared teeth and review their results at once. Alternatively, click a specific tooth number to view results for that tooth only.
- After reviewing the data, you can remove items from the list by clicking the close icon next to each result.
- Auto Captures are available at the end of the review item list for each prepared tooth. Review the captures and click the “Download” icon in the bottom-right corner to save the images you need to the Medit Link case. Only images that you download will be available under Attachments in the Medit Link case. And if your workflow includes the Smart Scan Review stage, only the downloaded images will be available for review in that stage.
  Note that the images are updated whenever you add more scan data.

> 🔎**Note**
>
> The scan review items displayed at this stage do not cover the entire scan but focus on prepared teeth. The results are shown in the area covering the prepared tooth plus 1 or 2 adjacent teeth.

## Updating Review Results and Settings

By default, when performing additional scans, scan data is automatically reviewed at the start and end of scanning once the minimum number of capture shots (100) has been reached. Review results are also updated whenever the scan data is modified (e.g., data added, trimmed, or optimized), when entering a scan stage, or when transferring data between scan stages.

> ⚠️**Caution**

If the user manually selects the tooth or modifies the margin line using the Margin Line feature, the result may affect the work of the Realtime Intelligence.

**Display Conditions and Limitations for Review Items Based on Settings**

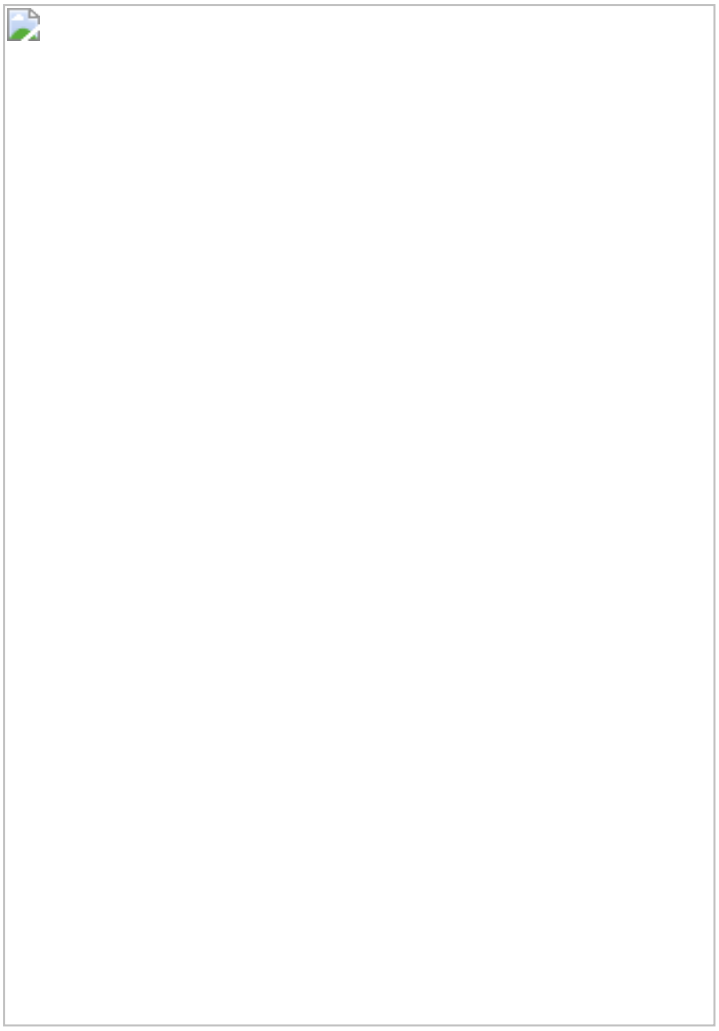
- When adjusting distance values in Settings > Scan Data Analysis, the review results for clearance review are updated according to the new criteria. All related review action items are refreshed accordingly.
- When the Use GPU option is turned off in Settings, the Realtime Intelligence feature is automatically disabled and cannot be used.
- Switch Smart Scan Filtering to Teeth + Gingiva to display all Scan Data review items, which are not available when Smart Scan Filtering is turned off.

# Realtime Intelligence in Smart Scan Review

When enabled, Realtime Intelligence affects how the report in Smart Scan Review is generated. Instead of providing a standard report for the current scan stage, Realtime Intelligence generates an enhanced report. This report includes a summary of all actionable review items for the current case in the bottom-right corner.

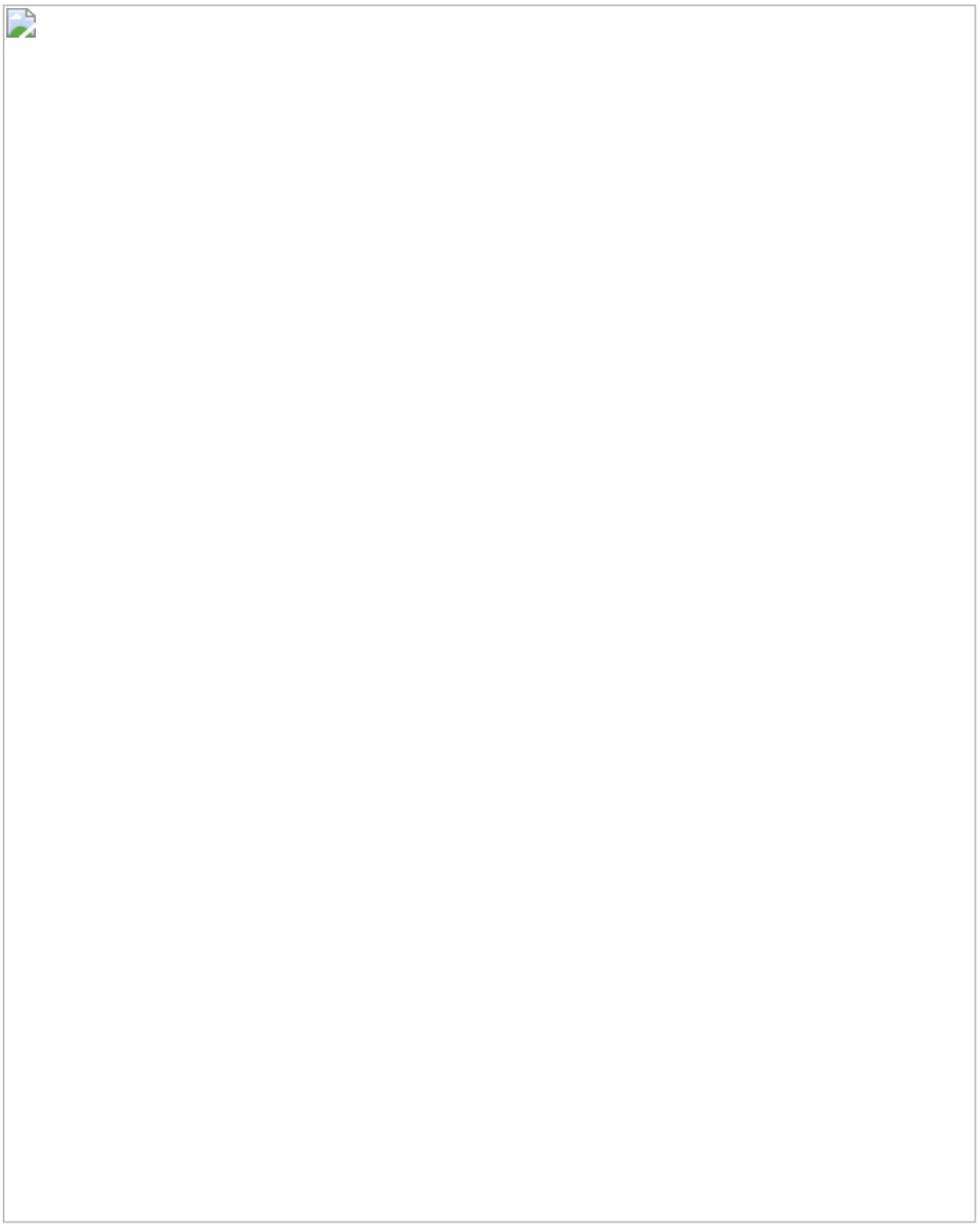
Before completing the case and finalizing the scan data, review the items detected by Realtime Intelligence. Click “Back to Work” to return to the scan stage corresponding to the currently selected review item, where you can modify the scan data if needed.

In this stage, you can also work with HD 2D images of the prepared teeth. If you downloaded any Auto Captures during the Maxilla/Mandible stages, they will be available for review in the HD Images section.



You can also add 2D images of specific areas using the Manual Capture feature in the HD Images section. Click the Manual Capture icon, then hover over the 3D data to preview the available images. Click the desired area to

capture and save the image.



All HD images (both Auto and Manual Captures) available in the review section during the Smart Scan Review stage will be automatically saved as attachments to the Medit Link case upon case completion.

**Medit Corp.**

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