MORITA

i-Dixel WEB

Quick Guide

Ver. 2.21

Thinking ahead. Focused on life.

2024-02-21 Pub. No.: K262-96012-501 (en)

Before using this product, please make sure to read the i-Dixel Instructions for Use.

Icon description

Click

Double-click

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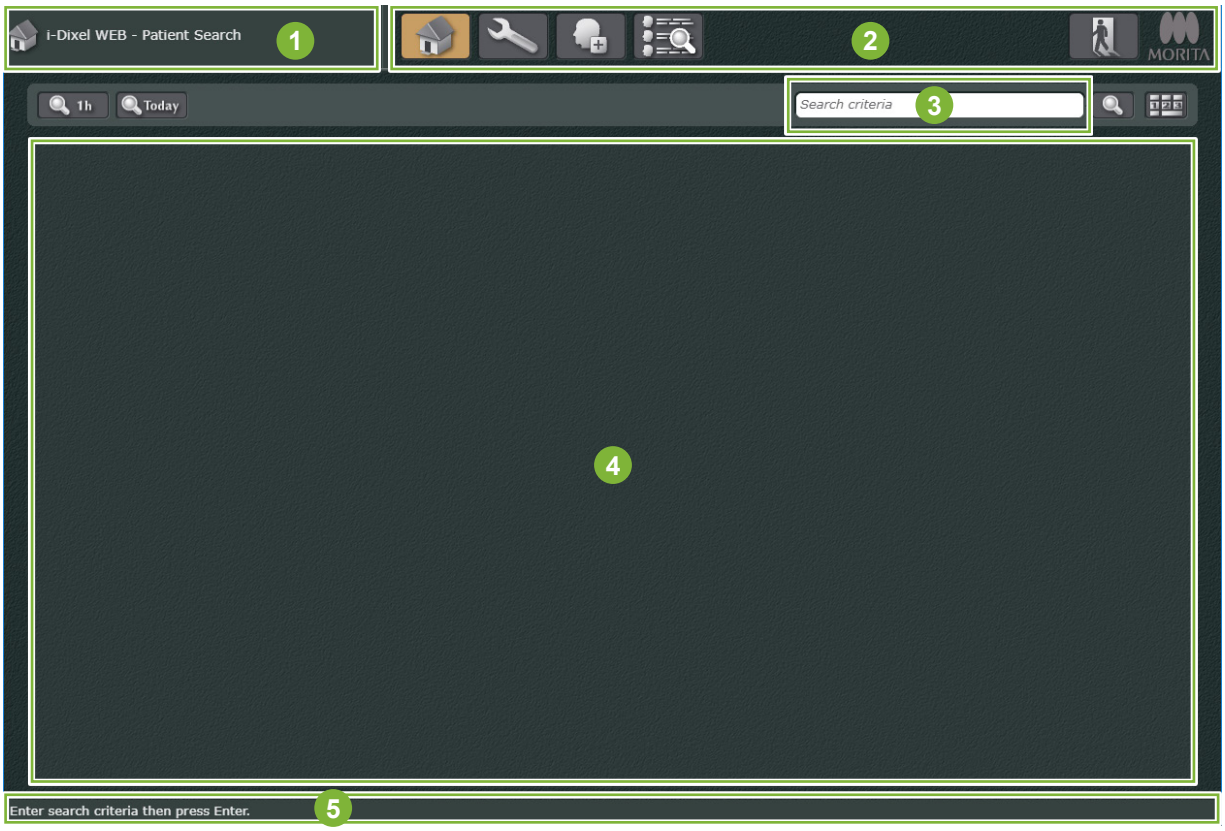
1 Screen Pages

2D 3D

1.1 Home Screen



1. Title bar
2. Main tool bar
3. Patient search bar
4. Patient information area
5. Status bar

Return to Home Screen

Display the settings and maintenance dialogue box

Register patient information ☞ **p. 15**

Search patient details

Logout ☞ **p. 14**

Check application information

Display the list of patients for whom information was newly created, edited, updated, or an X-ray image was taken within the last hour.

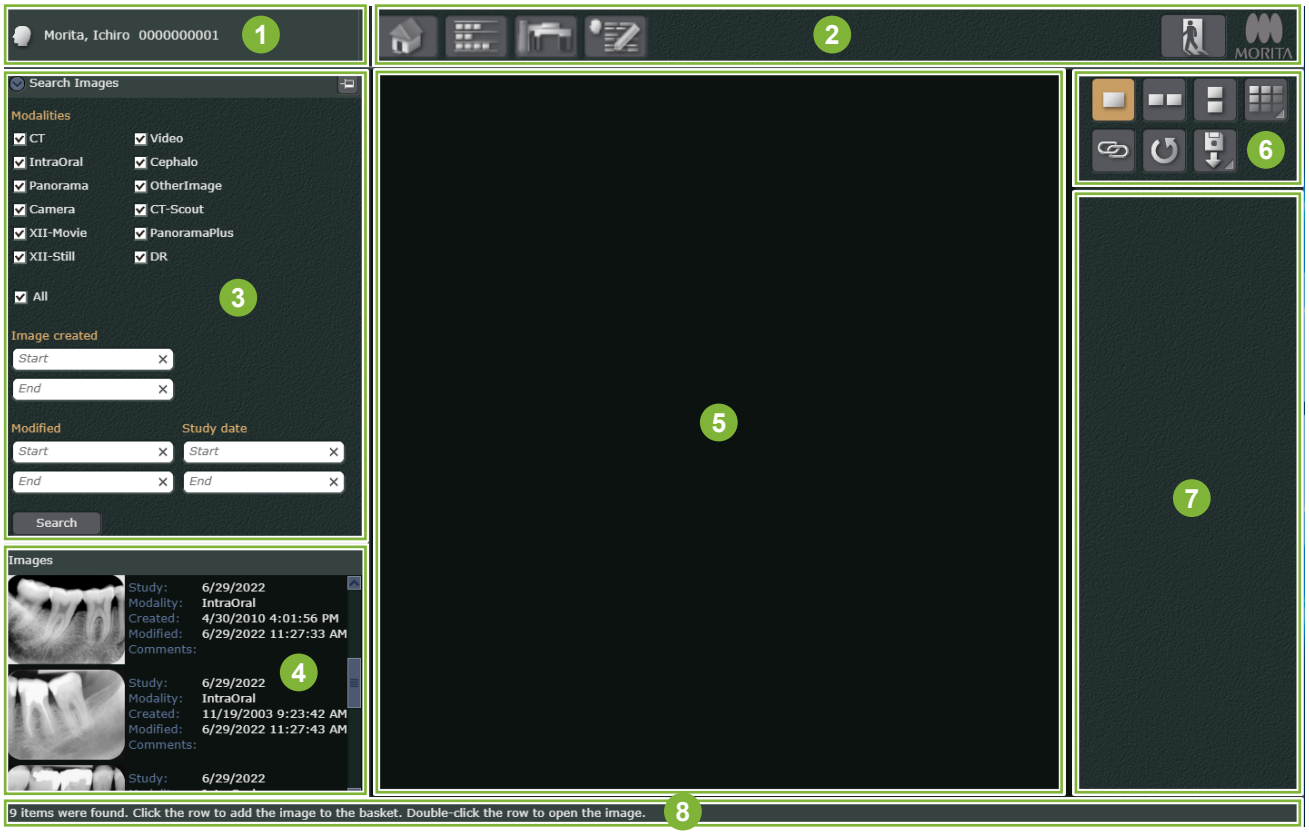
Display the list of patients for whom information was newly created, edited, updated, or an X-ray image was taken today.

Search for patients ☞ **p. 17**

Display the keypad ☞ **p. 17**

1.2 Main page

This screen is displayed when you select a patient. ☞ **p. 17 “4 Searching for Patients”**



1. Title bar
2. Main tool bar
3. Image search
4. Image list
5. Display and processing area
6. Image comparison
7. Tool box (A list of buttons is displayed here) ☞ **pp. 6-13**
8. Status bar

Return to Home Screen ☞ **pp. 26 and 49**

Show or hide 3 and 4 ☞ **p. 19**

Open Veraview X800 Exposure window

Displayed only when connected to the Veraview X800 with capture box.

Edit patient information ☞ **p. 16**

Logout ☞ **p. 14**

Check application information

1.3 2D Viewer Screen – Button List

Display a single image

Display two images side by side

Display two images vertically ☞ **p. 19**

Display the images in a specified arrangement

Multiple images can be displayed in any arrangement using this option. An arrangement of up to four rows and four columns can be selected.

Synchronize the displayed images (Only applicable to images that have the same modality)

This function simultaneously resizes, fits, scales, zooms and adjusts the brightness and contrast of images displayed for comparison.

Update the displayed image to the latest image

Use this function when

- you want information changed by other i-Dixel or i-Dixel WEB devices to update on your device immediately.
- the image you are editing cannot be overwritten and saved.

Import images (2D images only) ☞ **p. 18**

Tools

Export 2D images ☞ **p. 25**

Edit and Save

Overwrite and save the edited content on the image

Revert back to the last saved image

You can delete all the changes that you have made.

Undo the last action

Redo the last undone action

Revert the image to its original state

You can collectively delete all the edits saved so far.

Save the edits as a separate image

Compare the image before being edited with the image being edited

Double-click on the image to return to the main page.

Expand

Display the image in full screen

Double-click on the image to return to the main page.

Display the image at its actual size

Fit the image to the window size

Display and zoom in on a section of the image

Slider to scale the image

Colors

Slider to adjust contrast

Slider to adjust brightness

Slider to adjust the color hue*

Slider to adjust color saturation*

* Displayed only when the image format is 'color.' ☞ p. 9 "Statistics"

Automatically adjust the contrast (sigmoid correction)

Automatically adjust the brightness (gamma correction)

Automatically adjust the contrast and brightness

Invert the colors

Filter

Apply sharpness filtering ☞ p. 20
Edges and color contrast density in the image will be enhanced.

Apply the AGS filter [Panorama], [PanoramaPlus] ☞ p. 21
The brightness will be automatically corrected to a level where all regions of the panoramic view will be easy to observe.

Apply the AGS2 filter [Panorama], [PanoramaPlus] ☞ p. 21
The brightness and contrast will be automatically corrected to a level where all regions of the panoramic view will be easy to observe.

Apply other filters
You can choose a filter such as Emboss, Shadow, Edge, etc.

Apply AIE correction [Panorama], [Cephalo] ☞ p. 22
This filter produces even contrast and brings out characteristic features of the exposure region.

Apply AIE HD correction [Panorama], [PanoramaPlus] ☞ p. 22
In addition to image quality adjustment of AIE, this reduces the artifacts near metal prosthetic devices.

Measurements and Overlays

Select objects

You can select an object. Also use this to finish drawing an object. After clicking the button, you can select objects, move objects, or select other buttons.

Delete selected objects

Show/hide objects drawn on the image

Measure the distance ☞ **pp. 23-24**

Measure an angle

Insert text

Add symbol data

RL characters, area code, scale, and other such data are available.

Measure the line profile

You can check the gray level on a line drawn on the image.

Measure the area profile

You can check the maximum, minimum gray level, average gray level, and standard deviation of the gray level in a rectangle drawn on the image.

Draw a straight line

Draw a rectangle

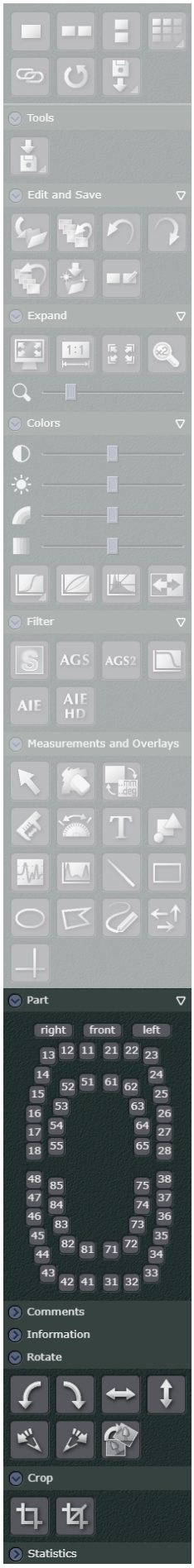
Draw an ellipse

Draw a polygon

Draw free-hand curves

Place arrows

Draw horizontal and vertical lines



Part

You can set the exposure region and dental number on the image.

For instance, if you set 26, 27, and 28 as exposure regions on images exposed at 26, 27, and 28, select [left] for the dental direction and [26], [27], [28] for the dental numbers.

Comments

You can insert comments.

Information

Additional information about the image is displayed here. You can check the image resolution and other data here.

Rotate

Rotate the image 90 degrees counterclockwise

Rotate the image 90 degrees clockwise

Flip the image horizontally

Flip the image vertically

Rotate the image 0.5 degrees counterclockwise

Rotate the image 0.5 degrees clockwise

Rotate the image by line

This rotates the image such that the image is horizontal against a line drawn on the image.

Crop

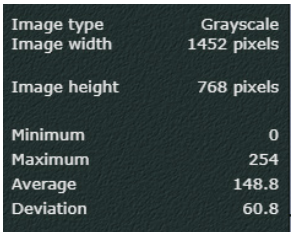
Crop the image*

Crop the image to a specified size*

* With [Camera] and [Other Image] modalities, the image can be cropped only if it is a color image.

☞ **p. 9 “Statistics”**

Statistics



Displays the image format, size, gray level, and standard deviation.

1.4 3D Viewer Screen – Button List

Display a single image

Display two images side by side

Display two images vertically ☞ **p. 19**

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Update the displayed image to the latest image

Use this function when

- you want information changed by other i-Dixel or i-Dixel WEB devices to update on your device immediately.
- the image you are editing cannot be overwritten and saved.

Import images (2D images only) ☞ **p. 18**

Edit images

You can edit and measure a CT slice image and volume rendered image.

Volume information

This displays the image exposure and CT volume reconstruction conditions.

Edit volume rendering settings

Edit

Save the modified image as a new image. (A new thumbnail is created)

Capture a snapshot of the image

Revert the image to its original state

You can collectively delete all the edits saved so far.

Revert back to the last saved image

You can delete all the content that is being edited.

Undo the last action

Redo the last undone action

View

Display the image in full screen

Display the image at its actual size

Fit the image to the window size

Display/hide the XYZ cursor line

Display only the X slice image

Display only the Y slice image

Display only the Z slice image

Display only the volume rendered image

Display the XYZ slice images and volume rendered image
☞ **p. 27**

Generate/display a CMPR panoramic image and CMPR cross-sectional image ☞ **pp. 27 and 35**
CMPR: CurvedMPR

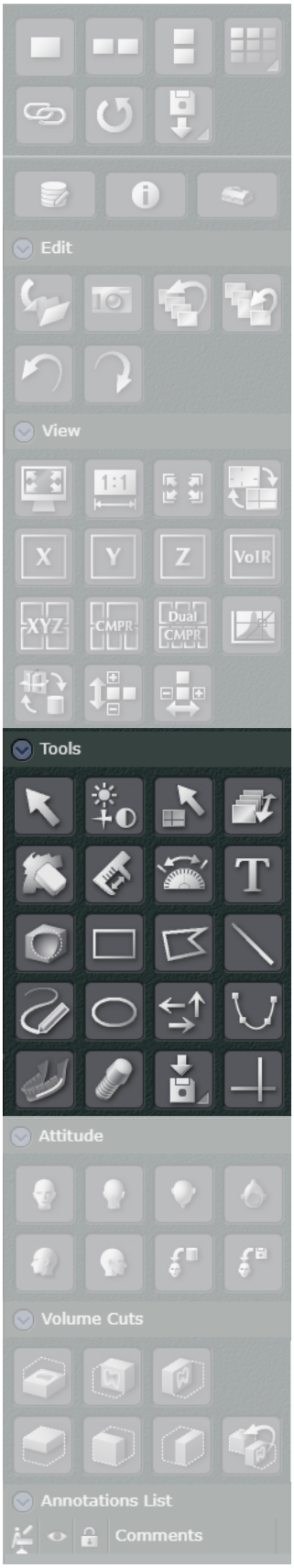
Generate/display two sets of CMPR panoramic images and CMPR cross-sectional images ☞ **pp. 27 and 38**

Display/hide the histogram window

Display/hide the XYZ cursor plane on the volume rendered image

Flip the Z slice image centered on the Z axis

Flip the X slice image centered on the X axis



Tools

Select objects
You can select an object. Also use this to finish drawing an object. After clicking the button, you can select objects, move objects, or select other buttons.

Adjust the brightness and contrast of the CT slice image, and adjust the region of interest of the volume rendered image
☞ **pp. 28 and 31**

Click and move the XYZ cursor line

Drag and move the XYZ cursor line

Delete selected objects

Measure a distance

Measure an angle

Insert text

Cut the image

Draw a rectangle

Draw a polygon

Draw a straight line

Draw free-hand curves

Draw an ellipse

Place arrows

Draw a spline curve on the Z slice image ☞ **pp. 36 and 39**
You can draw spline curves to generate CMPR panoramic images and CMPR cross-sectional images.

Draw a neural tube ☞ **p. 41**

Insert dental implants ☞ **p. 44**

Export CT data ☞ **p. 47**

Draw horizontal and vertical lines

Attitude (You can select the image orientation)

Forwards

Backwards

Top

Bottom

90° Left

90° Right

Same direction as when CT exposure was completed

Same direction as when edited information was saved

Volume Cuts (You can cut volume rendered images)

Cut the top part of the image

Cut the front part of the image

Cut the right part of the image

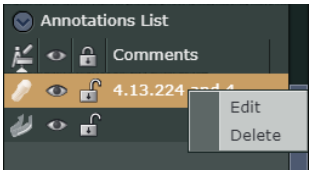
Cut the bottom part of the image

Cut the back part of the image

Cut the left part of the image

Restore the last cut image

Annotations List



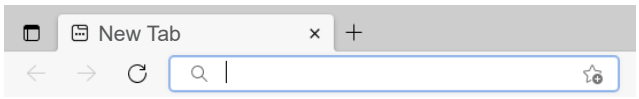
You can check the inserted history of drawing objects such as neural tubes and dental implants.

Right-click the annotation and select [Edit] to enter comments.

2 Launching and Closing i-Dixel WEB 2D 3D

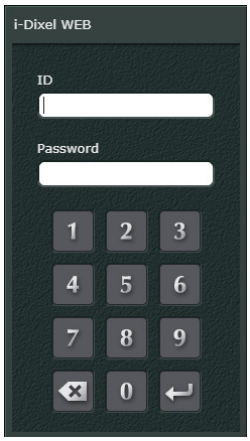
2.1 Logging In

1 Open your web browser and enter the i-Dixel WEB server URL in the address bar.

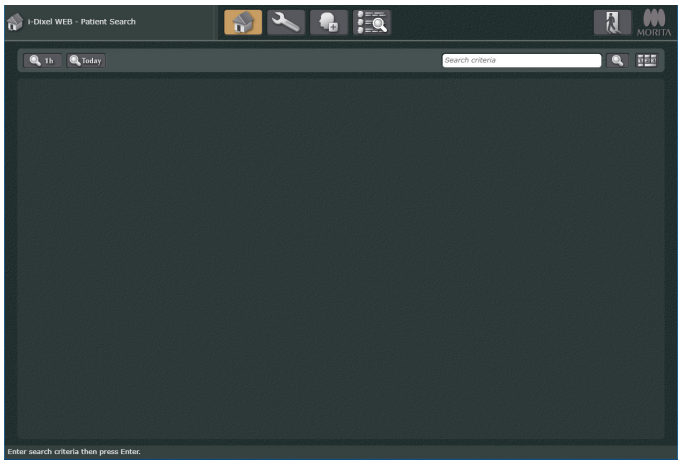


2 The login window will be displayed. Enter your ID and Password registered in i-Dixel to open the Home Screen.

● **Login window**

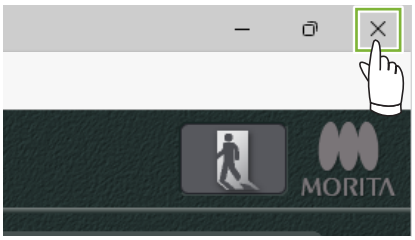


● **Home Screen**



2.2 Logging Out

Click X on the top right part of the screen to close the browser window.

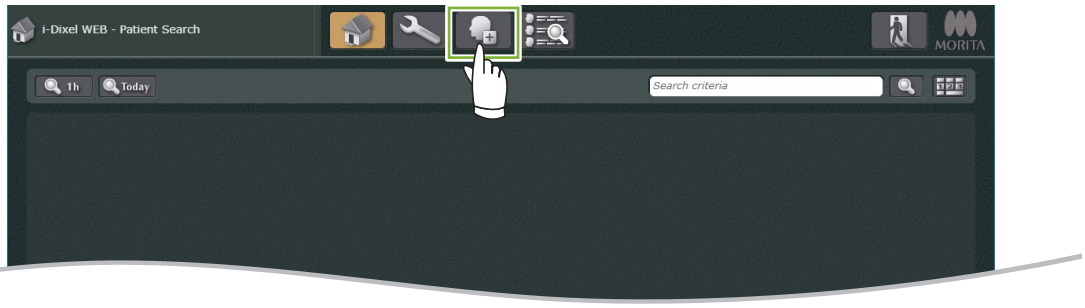


Or, click to return to the login screen.

3 Registering and Editing Patient Data 2D 3D

3.1 Registering New Patients

1 Click .



2 Enter the required data and click [Register].

Fields that must be filled

[ID]
[Name]
[Sex]

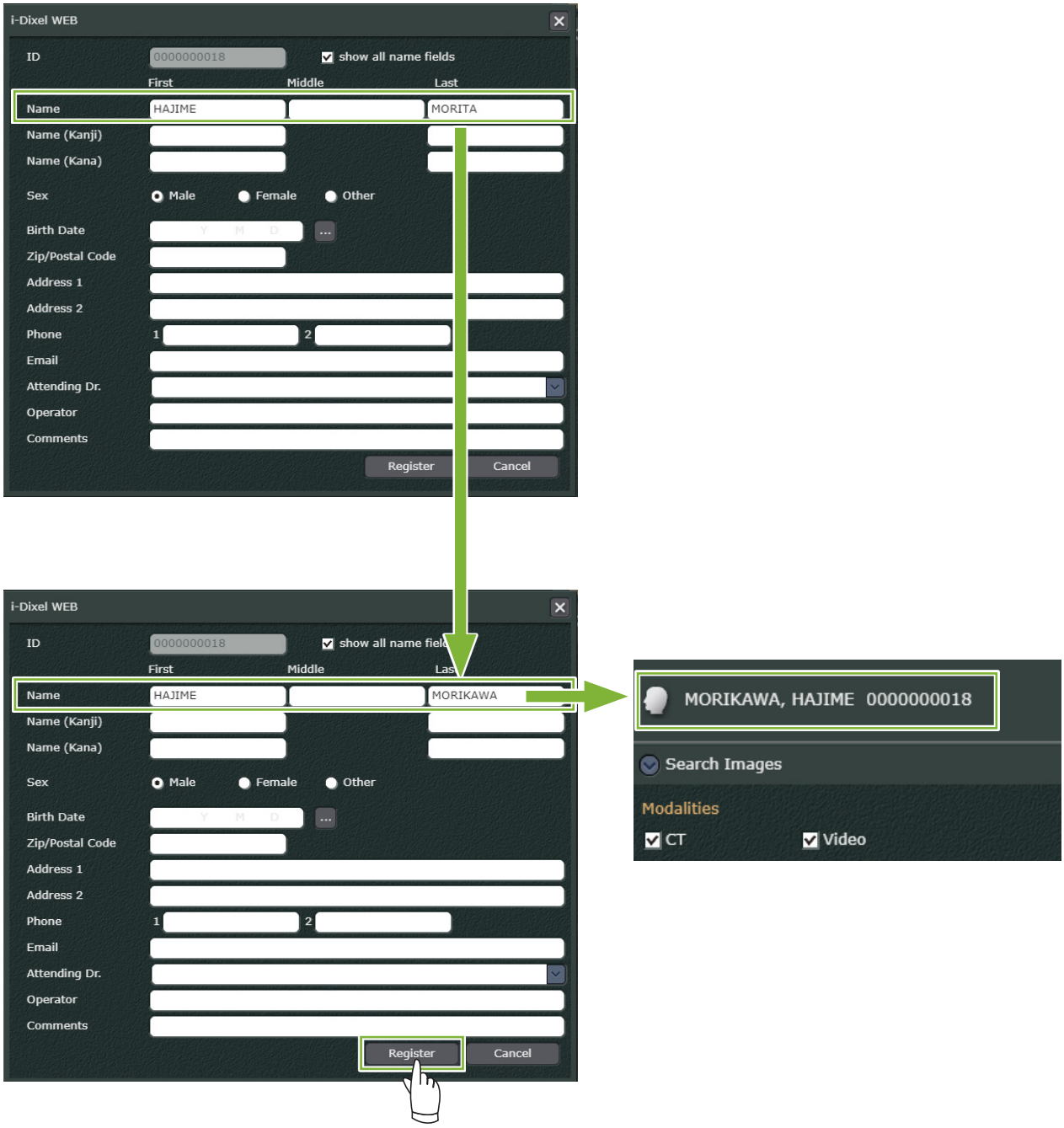
3 The main page for newly registered patients will be displayed.

3.2 Editing Patient Information

1 Select a patient to display the main page. ☞ **p. 17 “4 Searching for Patients”**

2 Click to display the following dialog box. Modify or enter patient information here.

* ID cannot be changed.

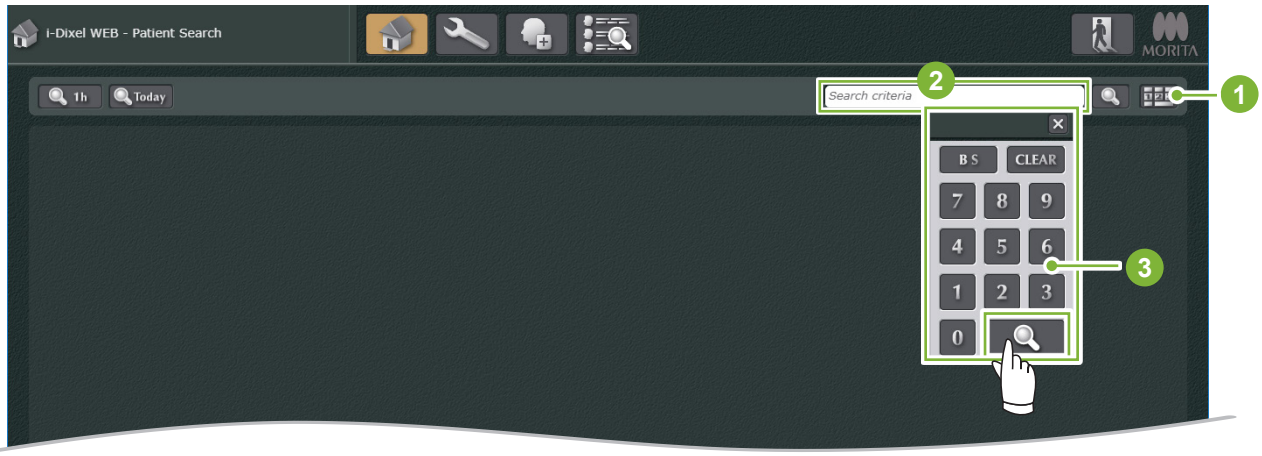


4 Searching for Patients

2D 3D

1 Enter the patient's ID, name, or part of either in ② and click .

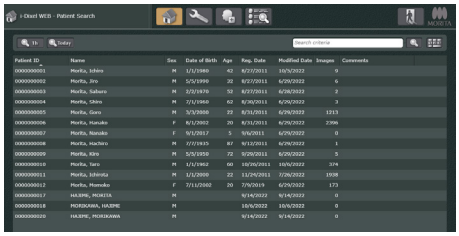
* You can also enter the ID using ③.



① Button to display the keypad
② Patient search bar
③ Keypad

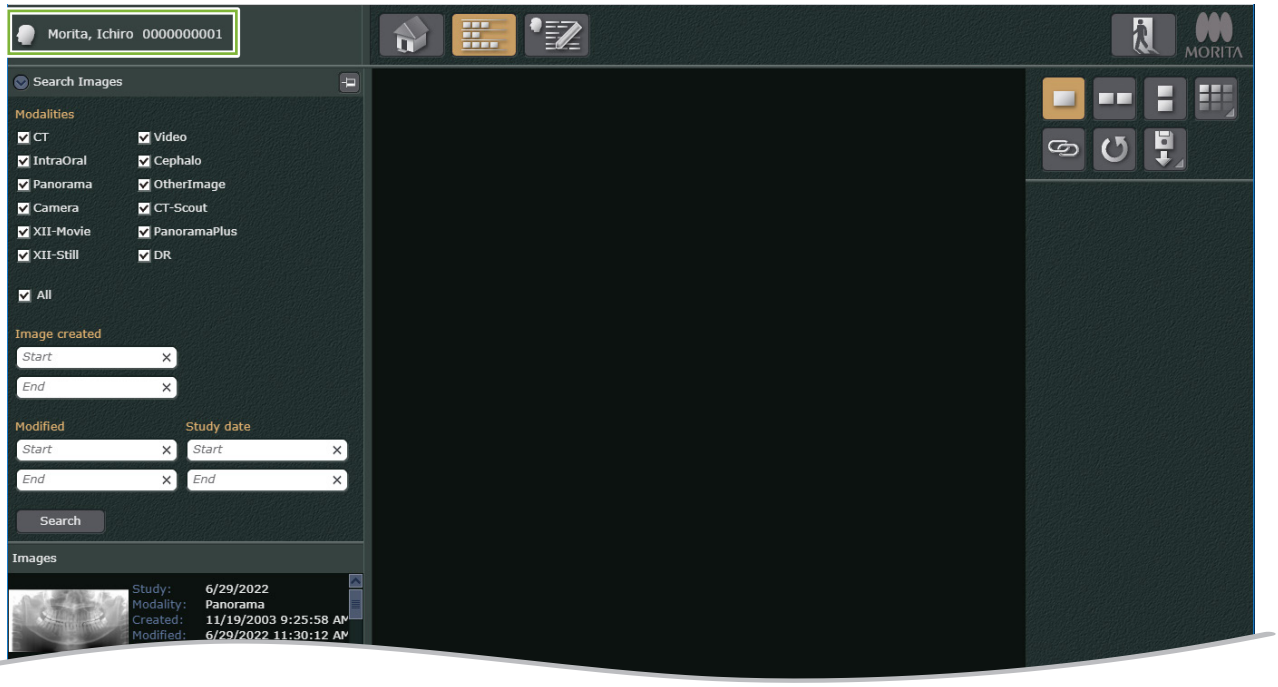
How to Display the Patient List

Click on the Home Screen to display the list of patients.



2 The main page for the patient will be displayed. Check the patient's name and ID.

* A list of names is displayed if multiple patients match the search conditions.
Double-click on the name of the patient you want to select from the list to display the main page.

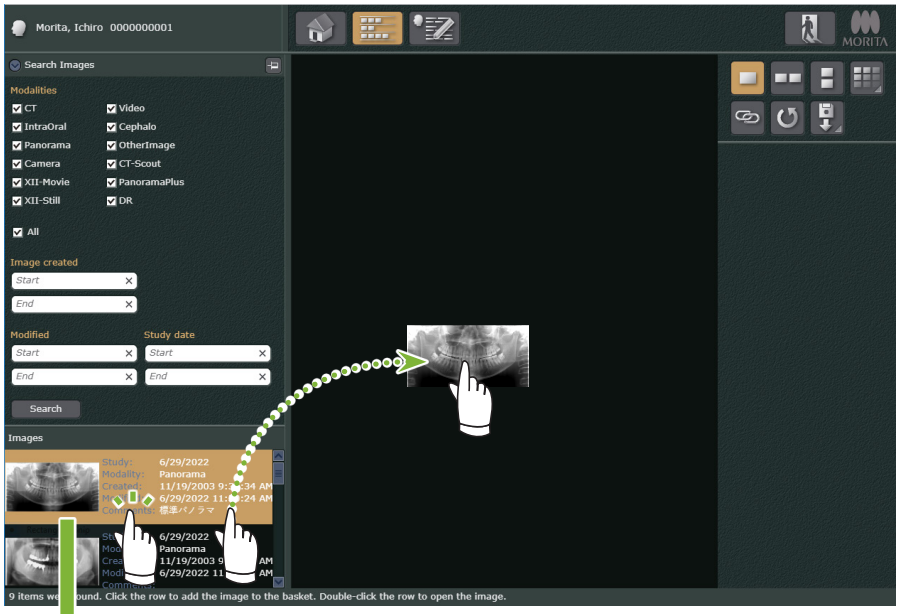


5 2D Viewer

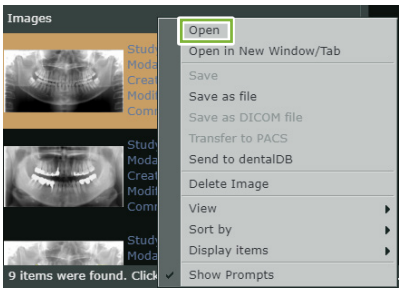
2D

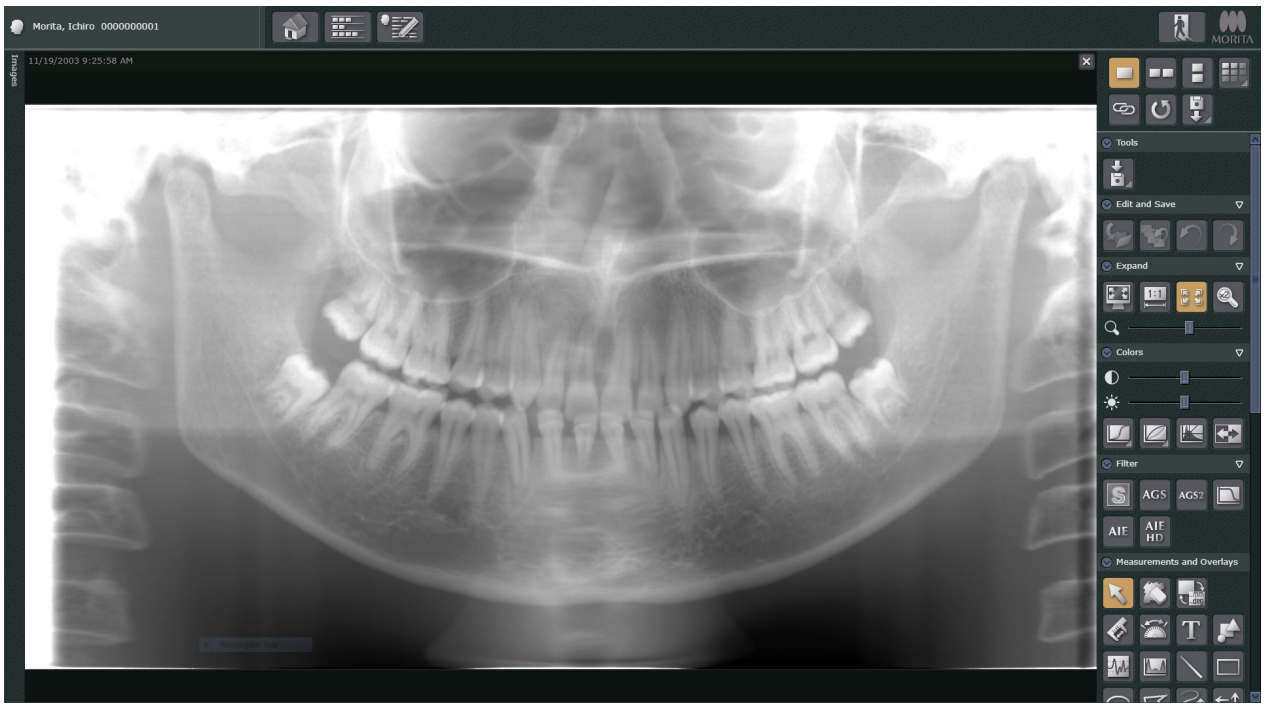
5.1 Opening a 2D Image

Select and double-click 2D images from the image list. You can also drag and drop.



You can also open the image from the popup menu that appears when you right-click the thumbnail.





When Importing Images

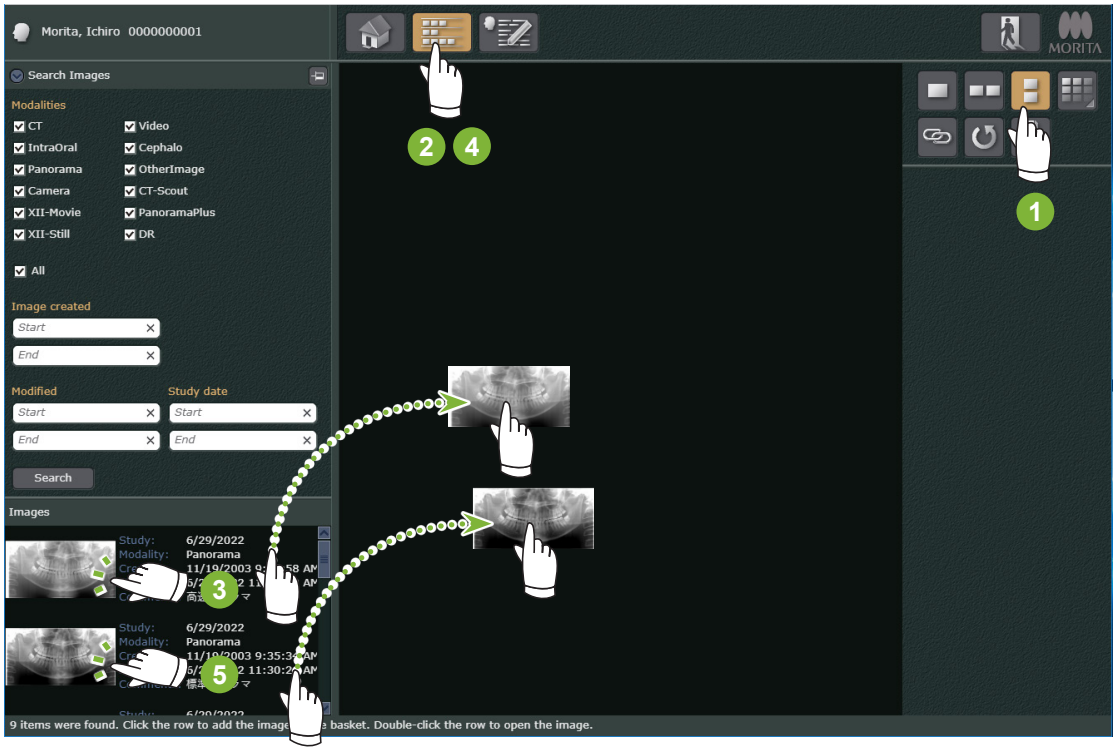
Click and select [2D Import]. Select the date and modality according to the displayed dialog box. Only 2D images can be imported in i-Dixel WEB.

5.2 Comparing Images

Comparing Two Images Vertically

You can compare 2D and CT data. However, you cannot compare CT data against each other.

1 Click . Click and double-click the first image (3) from the image list. Click again and double-click the second image (5). You can also drag and drop.



2 Two images will be displayed.

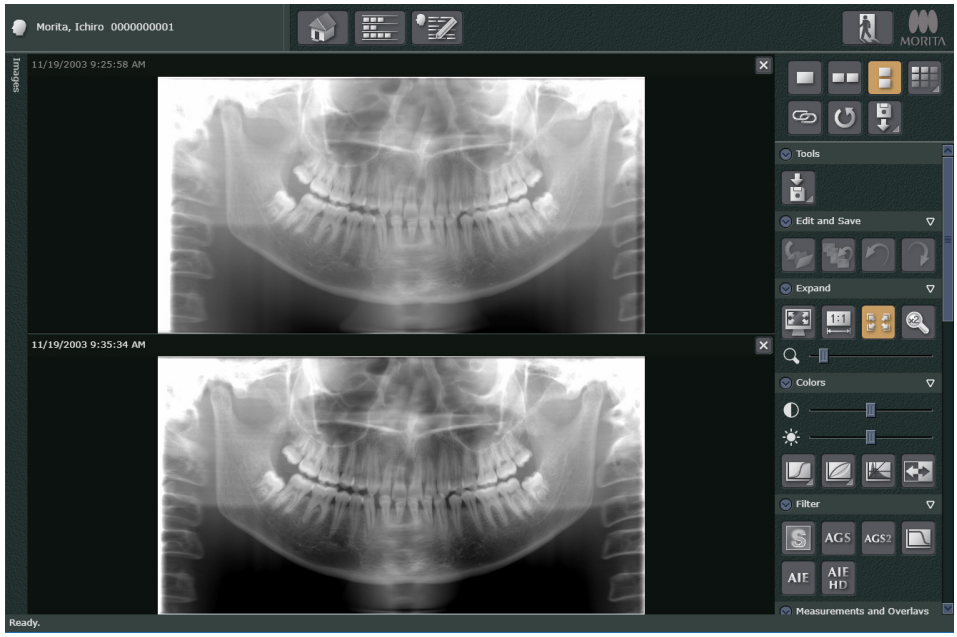


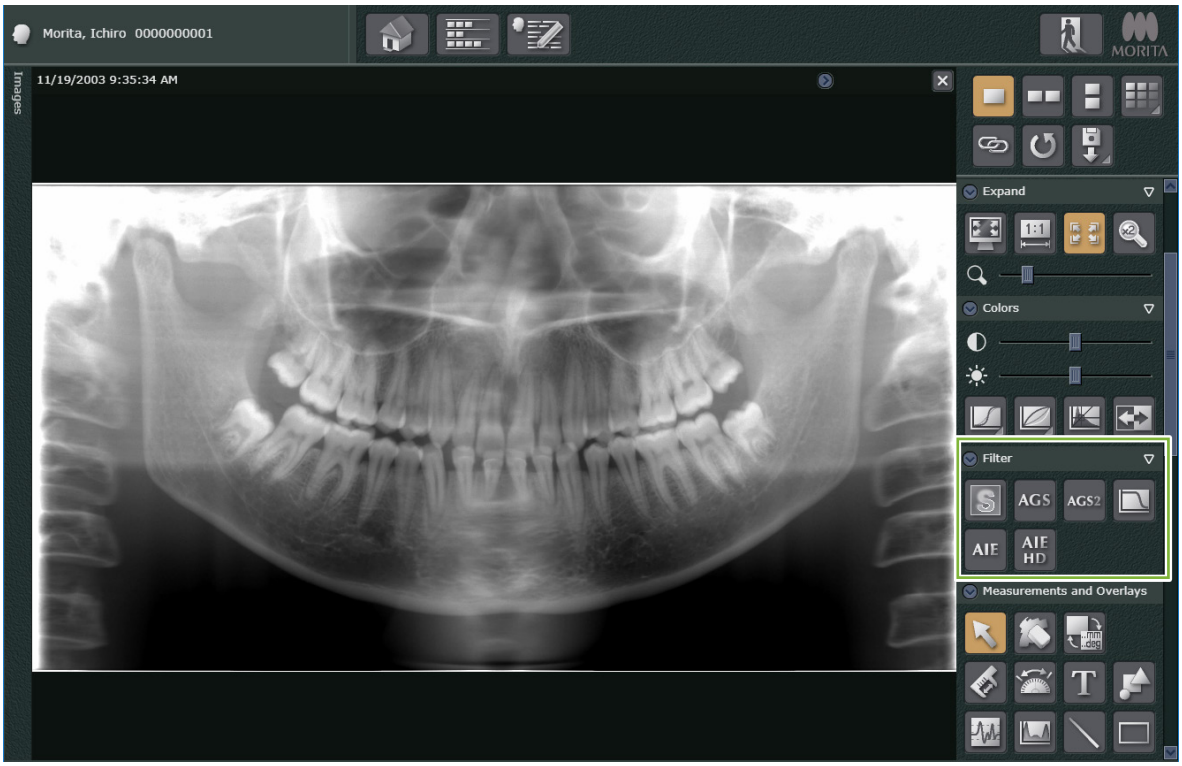
Image comparison does not reset automatically even if you return to the Home Screen.

Click to reset.

5.3 Editing Images

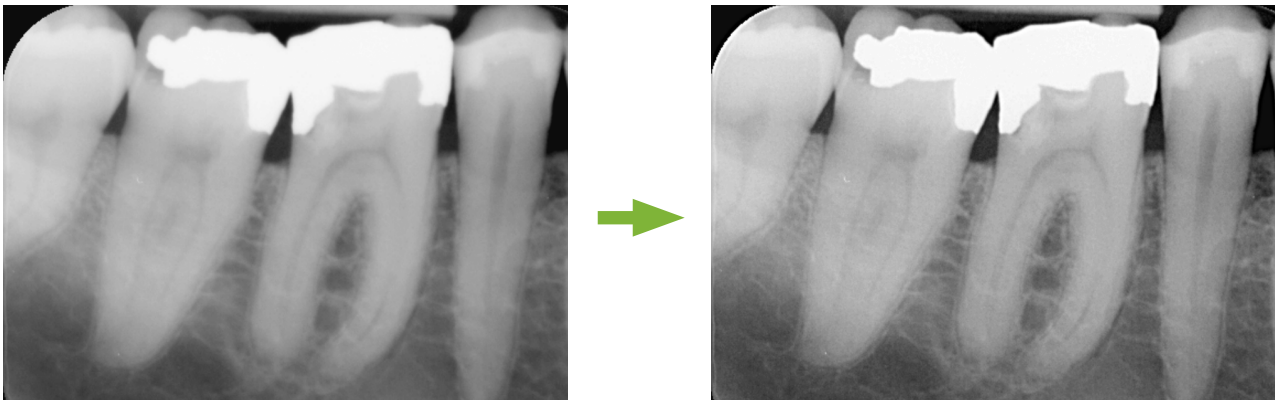
5.3.1 Apply Filters

You can improve the image quality by applying filters to the original image.



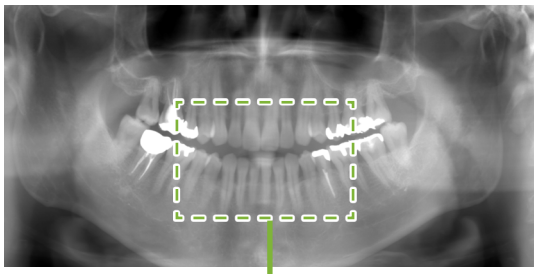
Sharpness Filtering

Click to sharpen the image.



AGS Image Adjustment

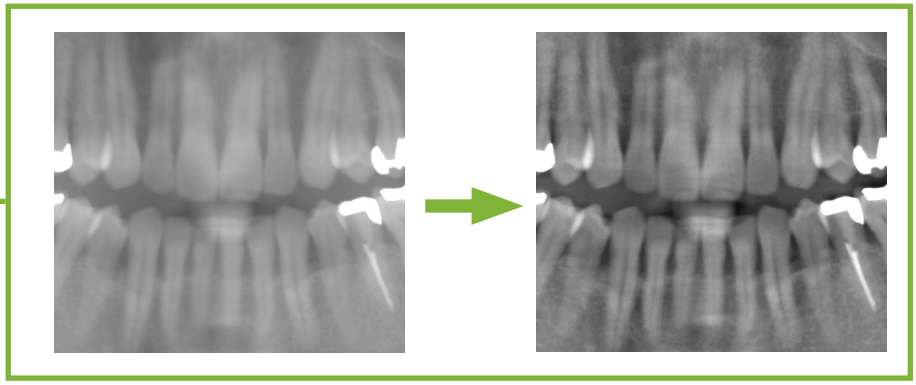
Click AGS to automatically adjust the brightness for optimum observation of not only the dental arch but the jaw, temporomandibular joint and entire panoramic view.



Applicable Images

- Panoramic views with [Panorama] and [PanoramaPlus] modalities.

* AGS cannot be applied to the images of the temporomandibular joint taken as four segments and images of the maxillary sinus.

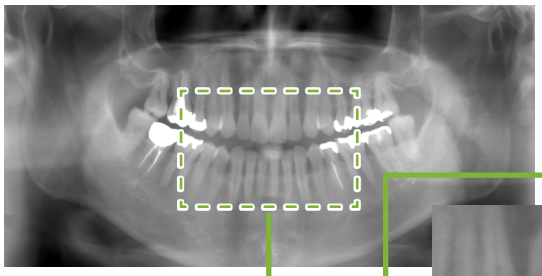


⚠WARNING

- There are cases where AGS processing is not optimal such as for observing the left-right variation of the maxillary sinus and observing extensive inflammation caused by tooth decay. In such cases, compare the image before and after AGS processing to make a comprehensive diagnosis.

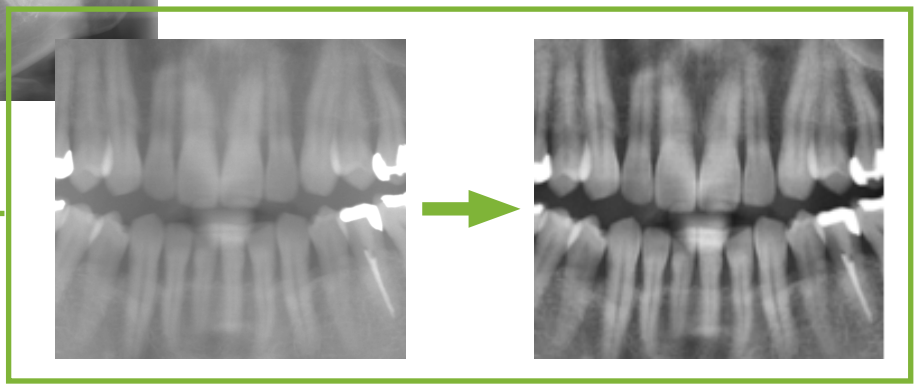
AGS2 Image Adjustment

Click AGS2 to enhance image gray levels further.



Applicable Images

- Panoramic views with [Panorama] and [PanoramaPlus] modalities.

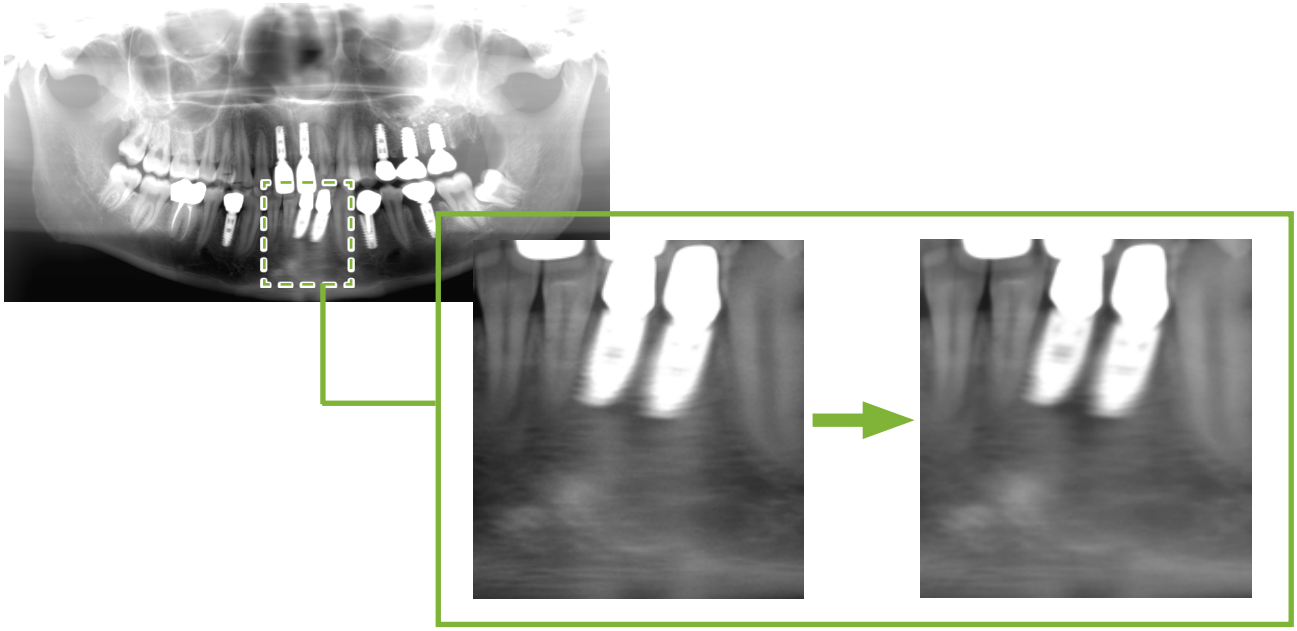


⚠WARNING

- There are cases where AGS2 processing is not suitable for observation, such as obstruction shadows of the cervical spine and other parts being emphasized and the maxillary sinuses becoming opaque on both the left and right sides. In such cases,observe the image before and after AGS2 processing to make a comprehensive diagnosis.

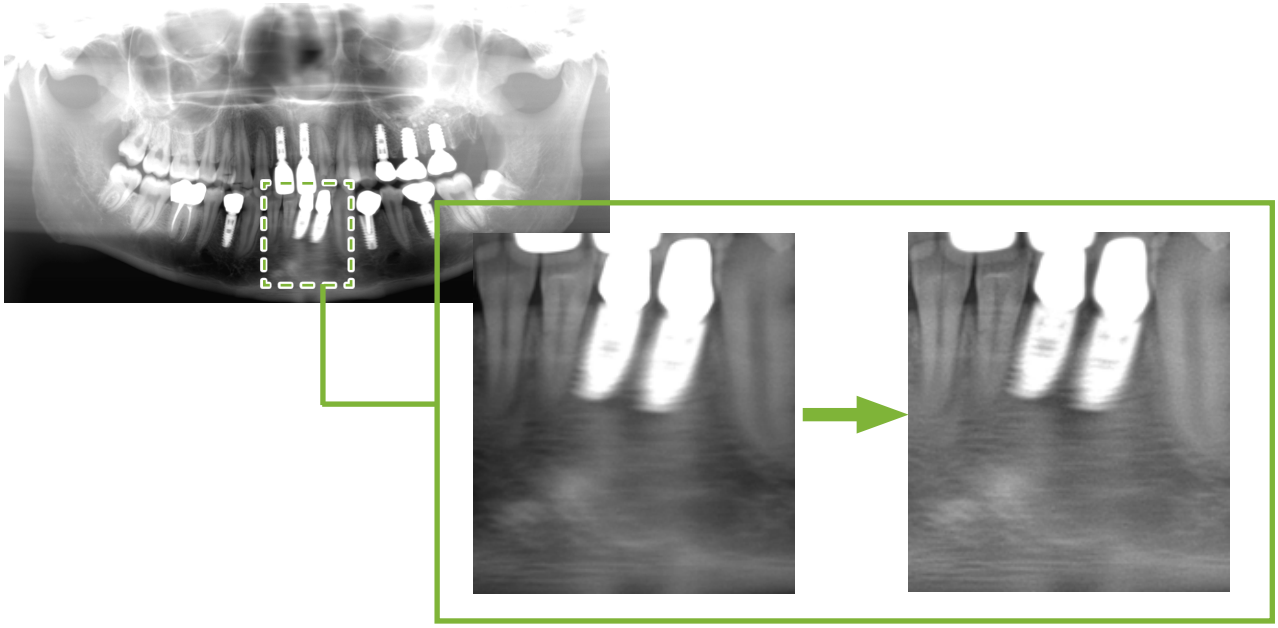
AIE Correction

Clicking AIE will adjust the contrast uniformly so you can get a highly vivid image.
This makes it possible to reduce the shadow generated depending on the angle of the mandible and the lower jaw.



AIE HD Correction

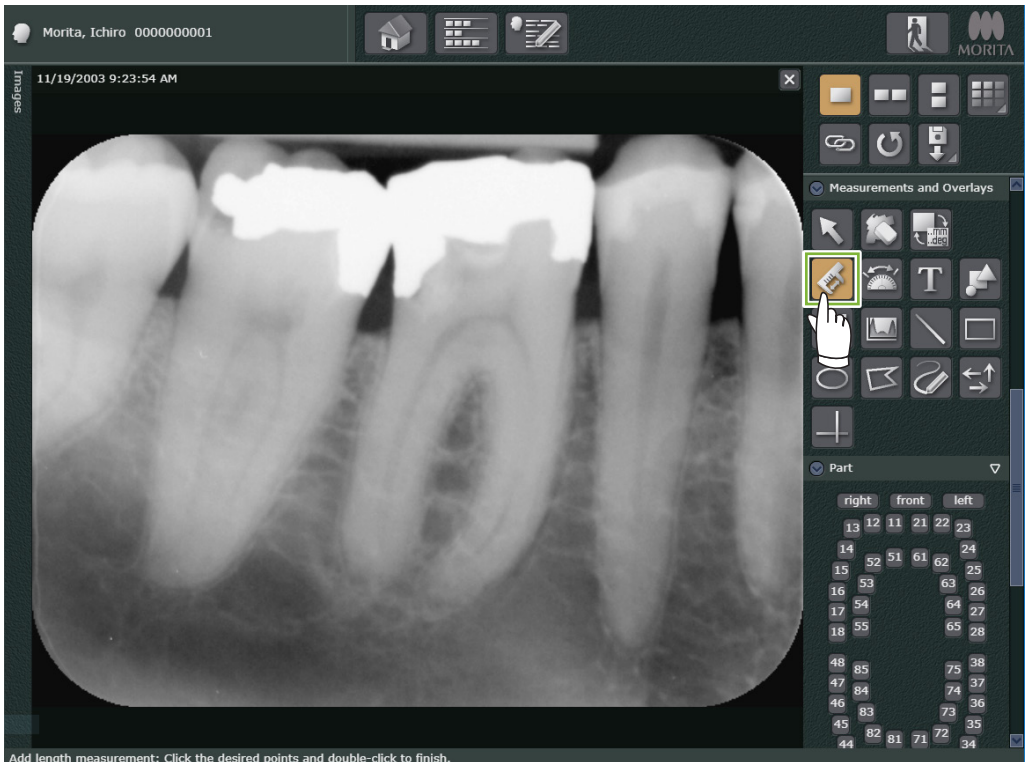
Clicking AIE HD reduces artifacts around metal prosthetics in addition to AIE correction.



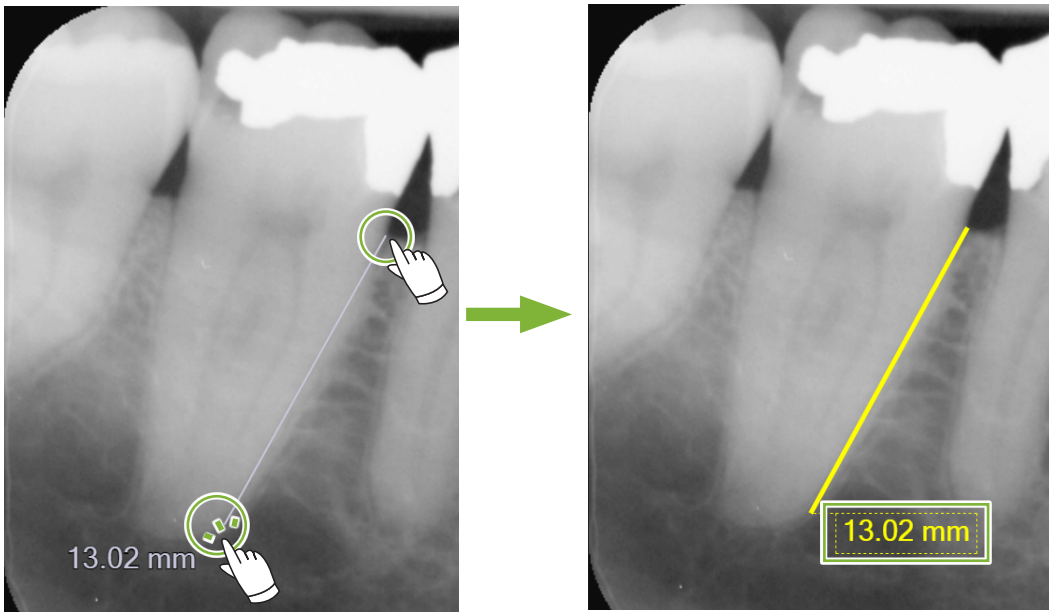
5.3.2 Measuring Distance

Measurement of direct distance

1 Select the image, and click .



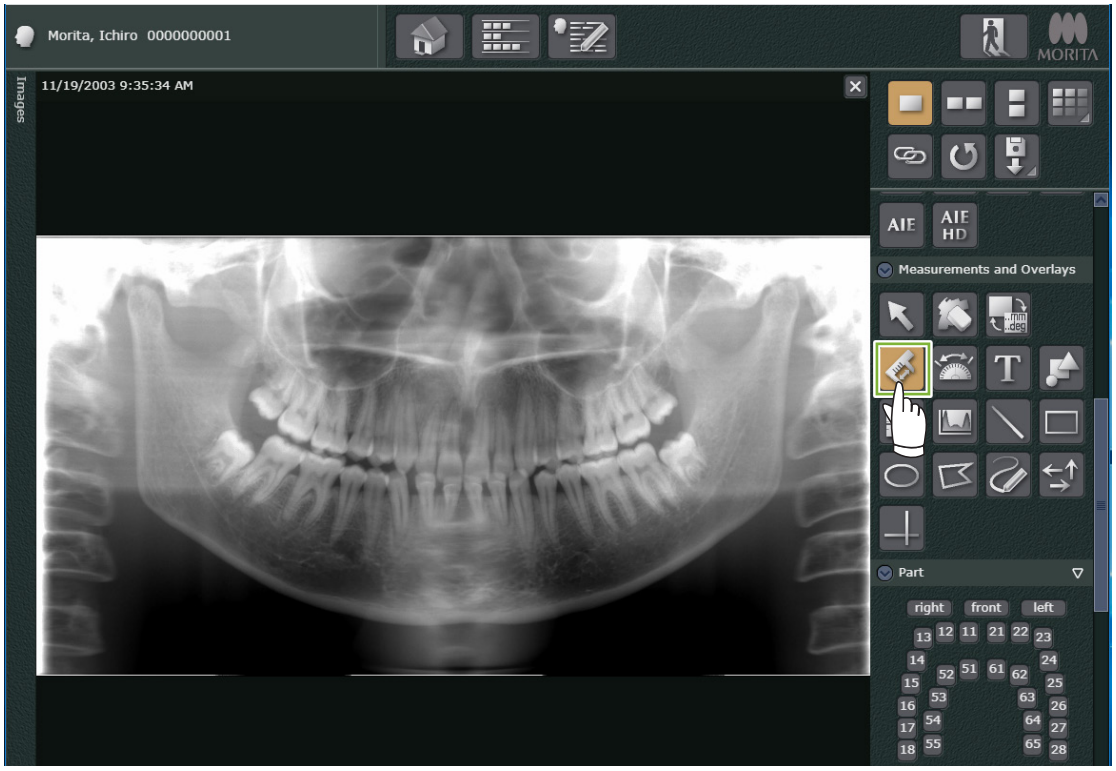
2 Click the starting point, and double-click the end point to view the measurement results.



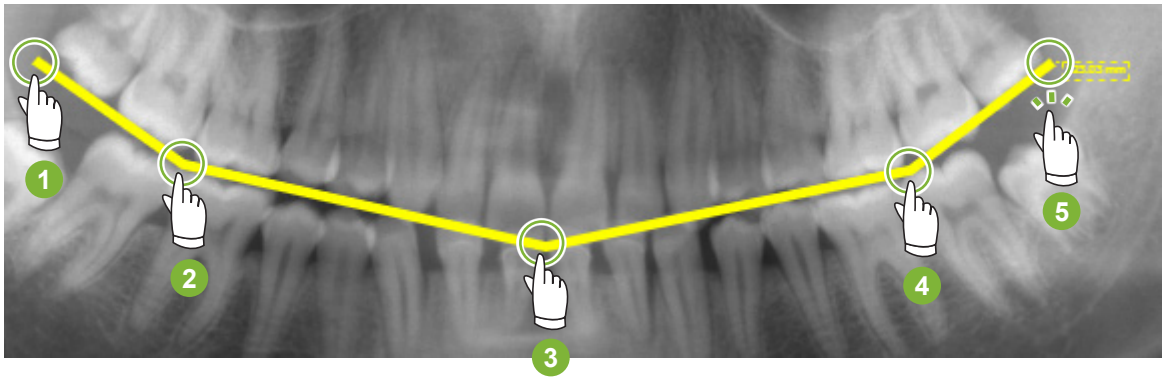
3 Click to finish measurement.

Measurement of polygonal distance

1 Select the image, and click .



2 Click the starting point, and click each point to include in the measurement. Double-click to mark the final point and the total distance along the lines connecting the points will be measured and displayed.

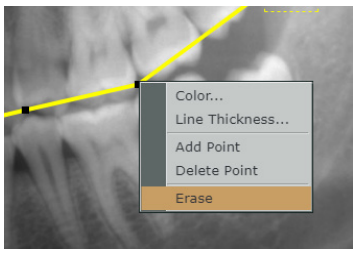


3 Click to finish measurement.

When deleting the measurement results

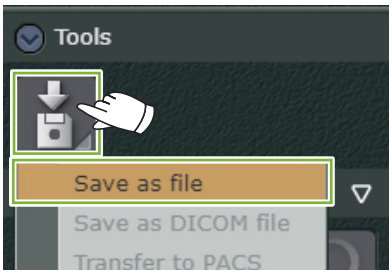
Select and click on the line.

Or, select , and right click on the line and erase from the shortcut menu that appears.

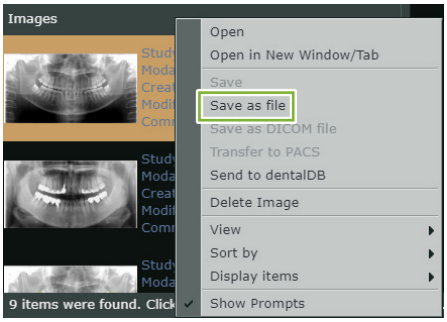


5.4 Exporting Images

1 When editing the image, click , and select [Save as file].

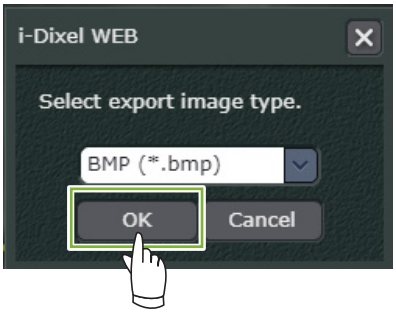


You can also export the edited image from the popup menu that appears when you right-click the thumbnail. Select [Save as file].

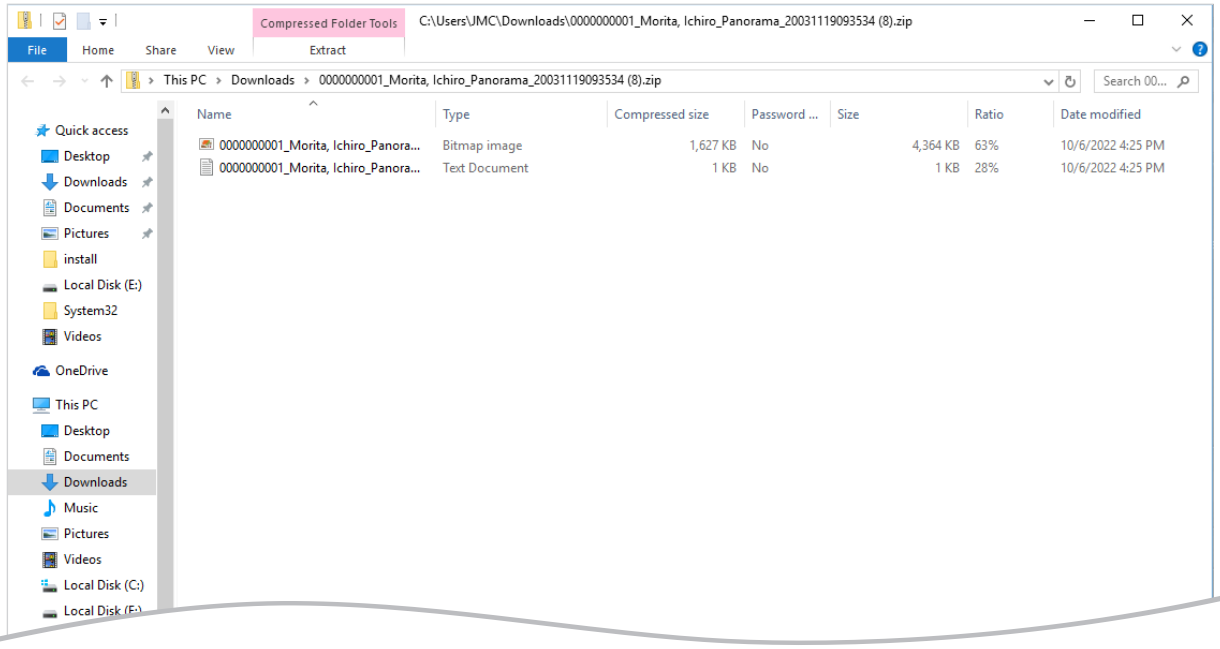


2 Select the file format and click [OK].

* If you want to control image quality deterioration, we recommend the BMP format.

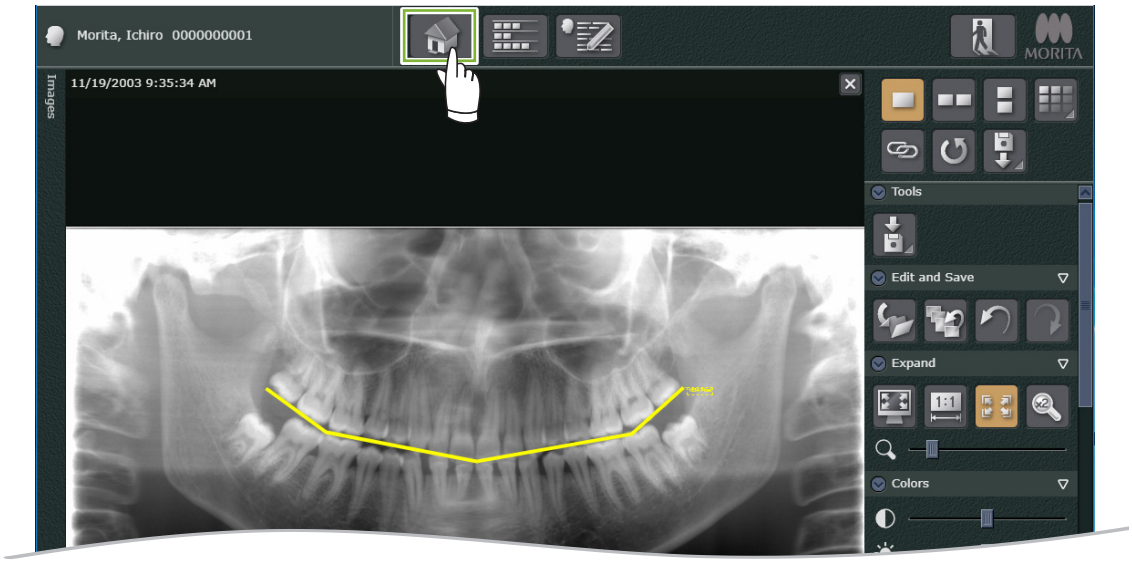


3 The 2D image and accompanying text file is saved on the device.

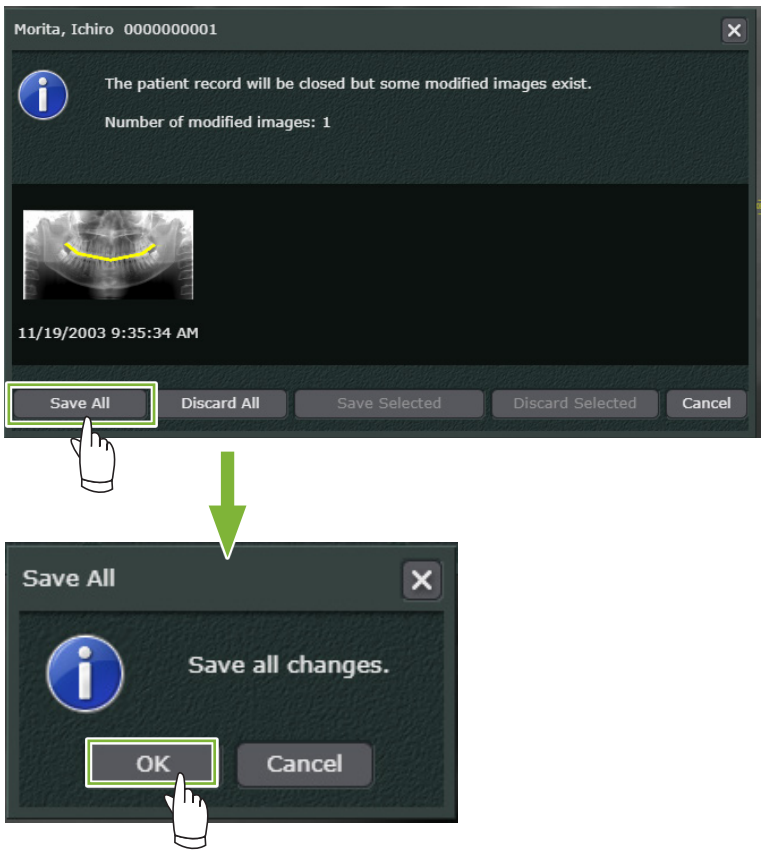


5.5 Returning to the Home Screen

1 Once you finish editing the image, click .



2 The following message will be displayed.
If you click [Save All] and then click [OK], your changes will be saved and you will be taken back to the Home Screen.

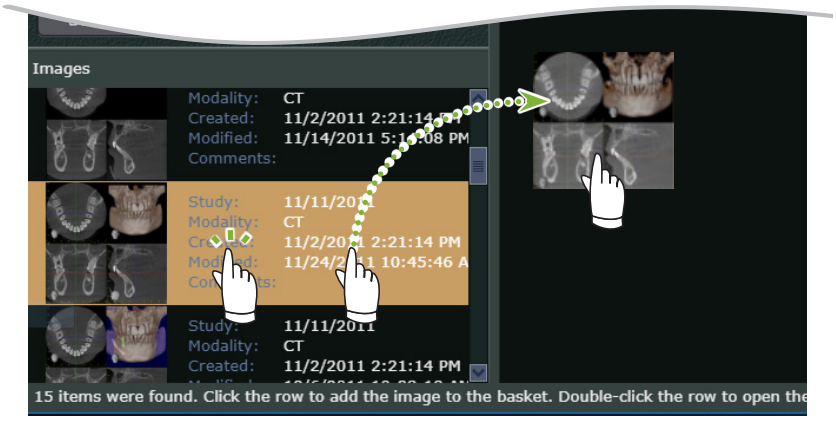


6 3D Viewer

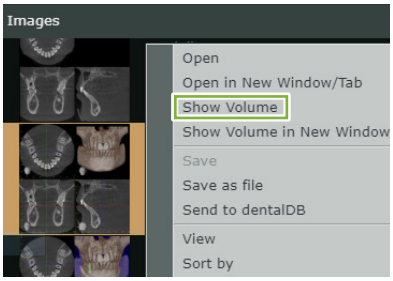
3D

6.1 Opening CT Data

1 Double-click the CT data from the image list. You can also drag and drop.

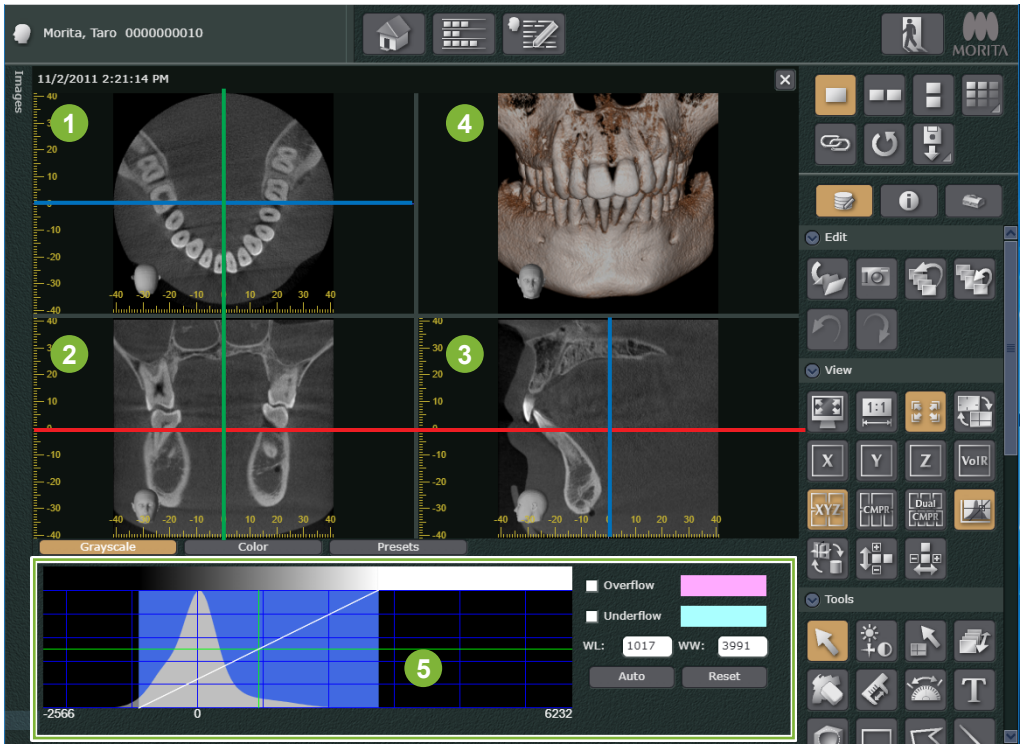


You can also open the image from the popup menu that appears when you right-click the thumbnail.



2 CT slice images and a volume rendered image will be displayed.

- **XYZ Screen**



1. Z slice image
2. Y slice image
3. X slice image

(1–3: CT slice images)

4. Volume rendered image
5. Histogram window

: X cursor line
: Y cursor line
: Z cursor line

How to display a CMPR panoramic image and CMPR cross-sectional images

If a CMPR panoramic image and a CMPR cross sectional images are already generated, you can switch between displays by selecting CMPR or Dual CMPR. For the method to generate an image, refer to ☞ **pp. 35 and 38**

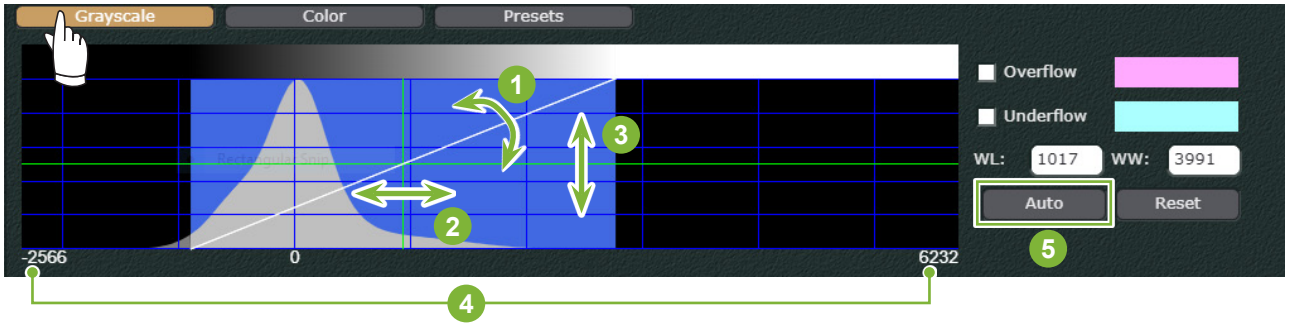
6.2 Editing Images

6.2.1 Adjusting the brightness and contrast for CT slice images

Adjusting with the Histogram Window

Click [Grayscale]. Drag 1 , 2 and 3 to adjust.

* Click to Show or Hide the histogram window.



1 Contrast curve: You can adjust the contrast by changing the slope.

2 WL (Window level): Drag left and right to adjust the brightness of the image.

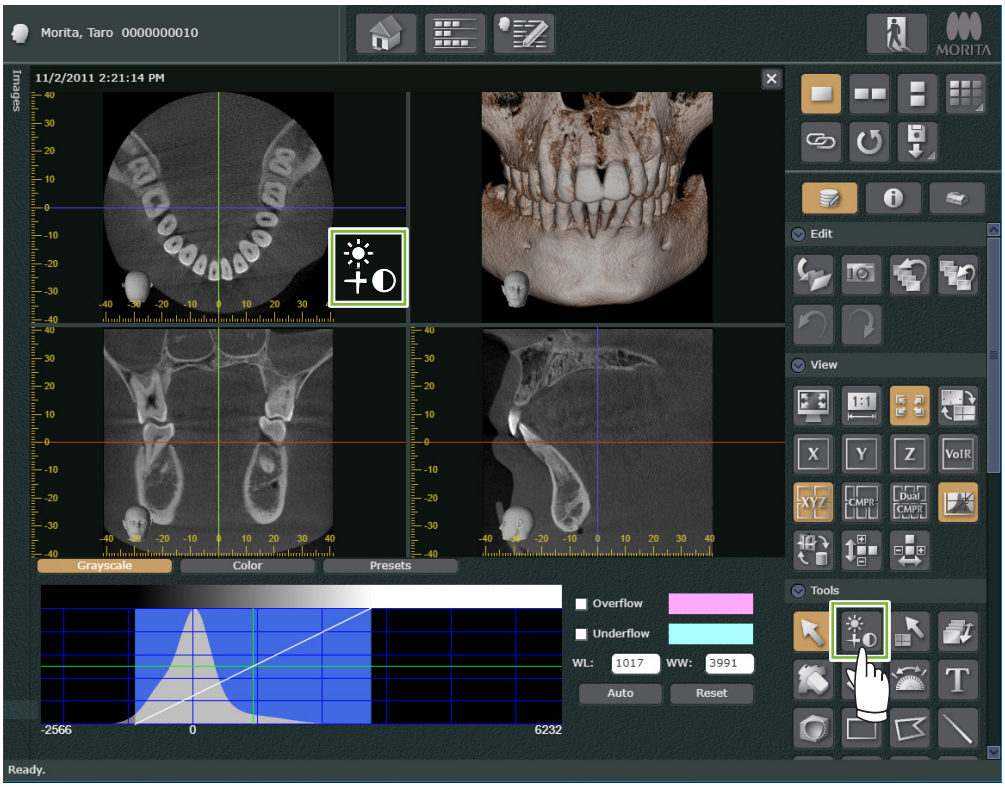
3 Luminance level: Drag up and down to adjust the luminance level.

4 Voxel value

5 WL (Window Level), WW (Window Width), and luminance level will be automatically adjusted.

Adjusting with button

Click to display .

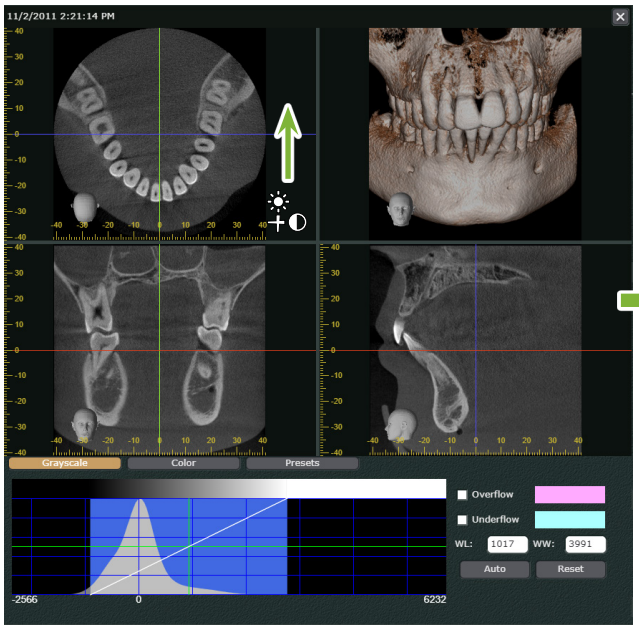


can be displayed by dragging the CT slice image while pressing the right button on the mouse.

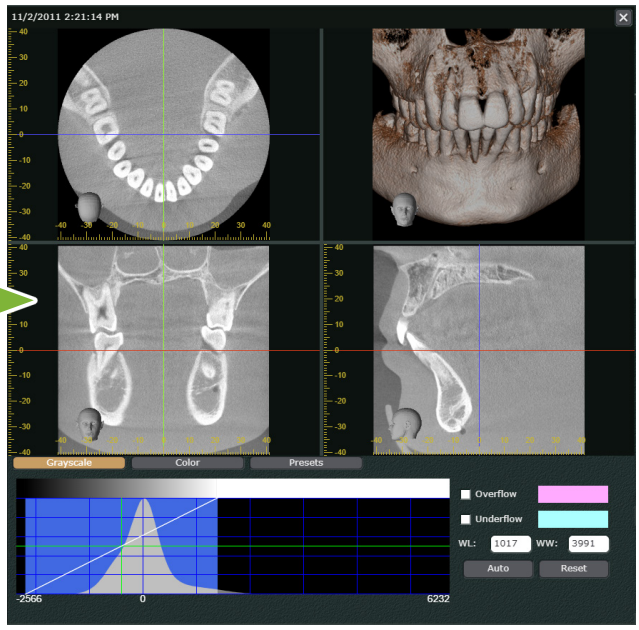
● Adjusting WL (Window Level)

Drag up on the CT slice image to reduce WL and brighten the image.
If you drag it down, WL will increase and the image will grow darker.

Before Adjustment



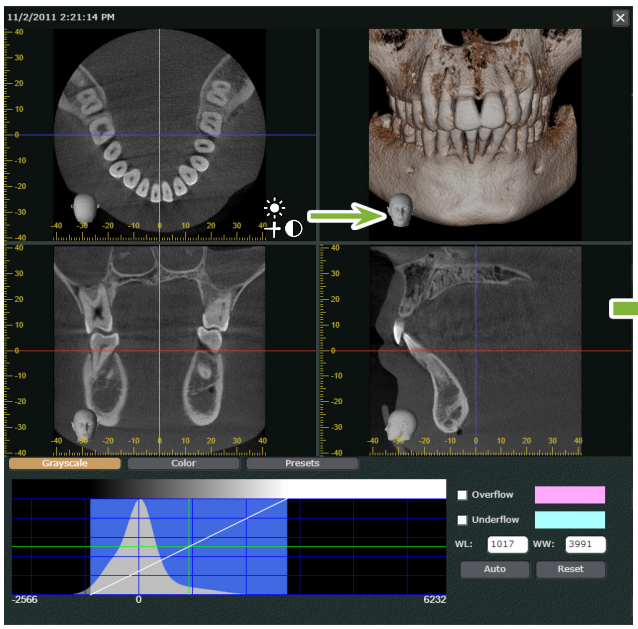
After Adjustment



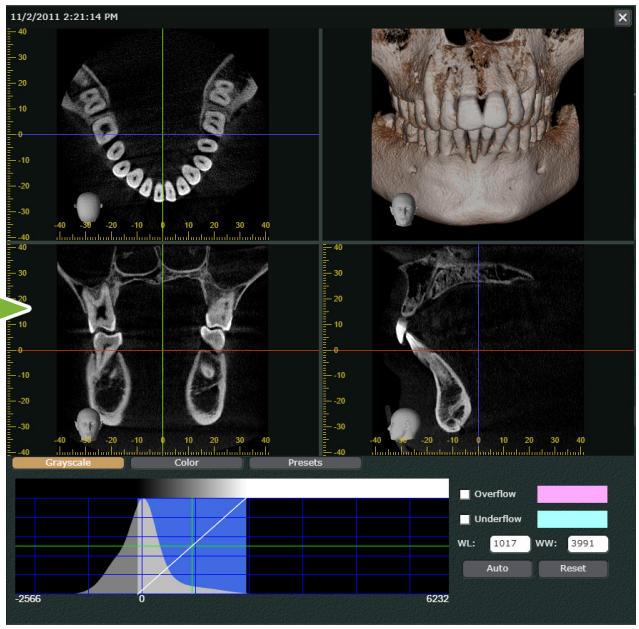
● Adjusting contrast

Drag to the right on the CT slice image to increase contrast.
Drag to the left to decrease contrast.

Before Adjustment



After Adjustment

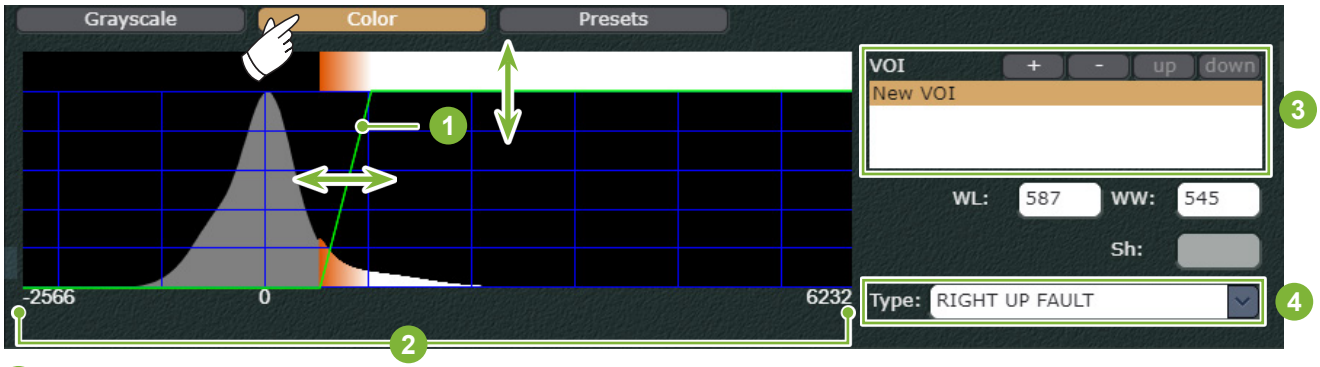


6.2.2 Adjusting the region of interest of a volume rendered image

Adjusting with the Histogram Window

Click [Color]. Drag 1 to adjust.

* Click to Show or Hide the histogram window.



1 Opacity curve: Drag up and down to adjust the opacity.
Dragging to the right and left will volume render the elements such as teeth or soft tissue as the region of interest.

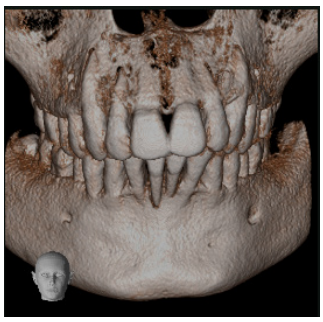
2 Voxel value

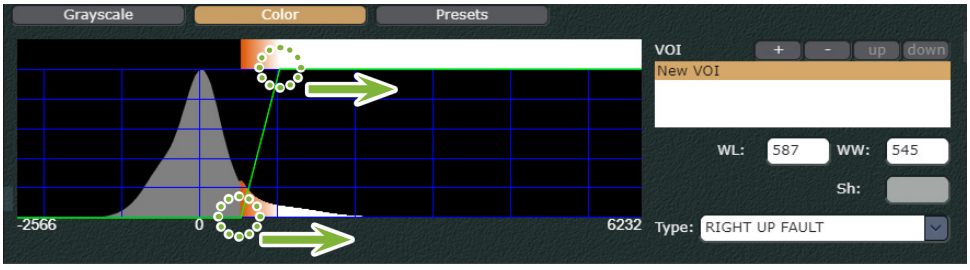
3 VOI: This allows you to register the adjusted region of interest. If you register multiple regions of interest, opacity curves will be displayed on top of one another.

4 Type of opacity curve

● Adjusting the region of interest

If you drag the opacity curve towards higher voxel values, hard tissues such as bones and teeth, and metals will be volume rendered as regions of interest.

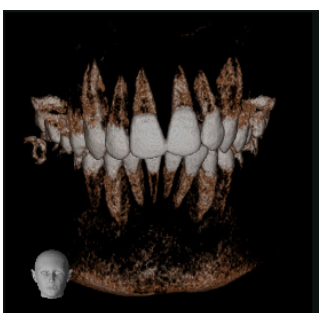




Voxel value (low) ⟷ **Voxel value (high)**

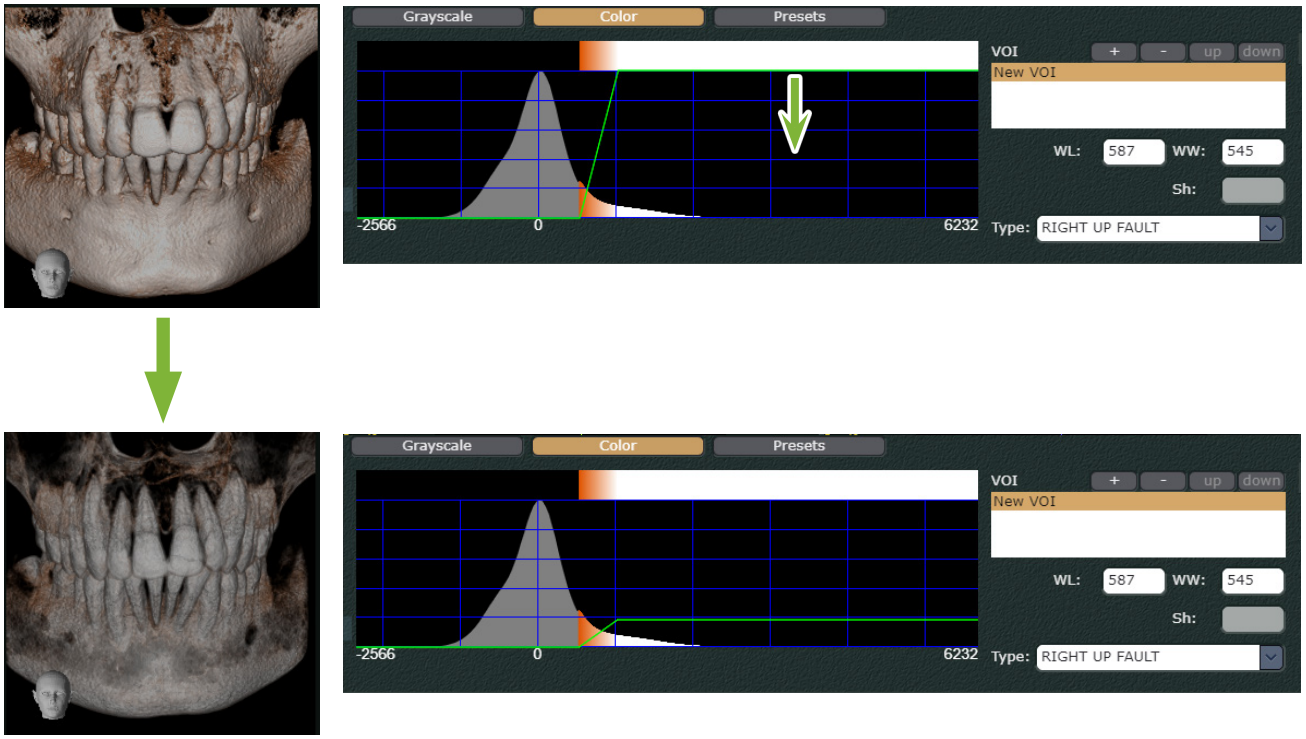
For air and soft tissues such as muscles and skin

For metal and hard tissues such as bones and teeth



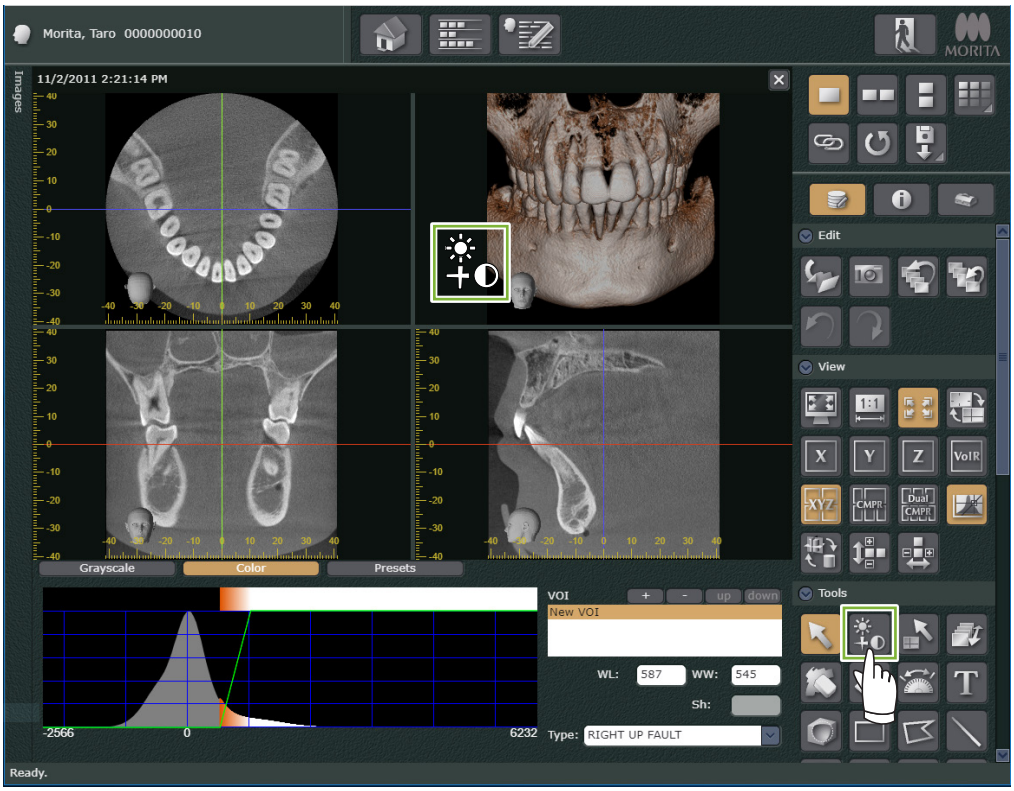
● Adjusting the opacity

Drag the opacity curve downward to decrease the opacity.



■ Adjusting with button

Click to display .

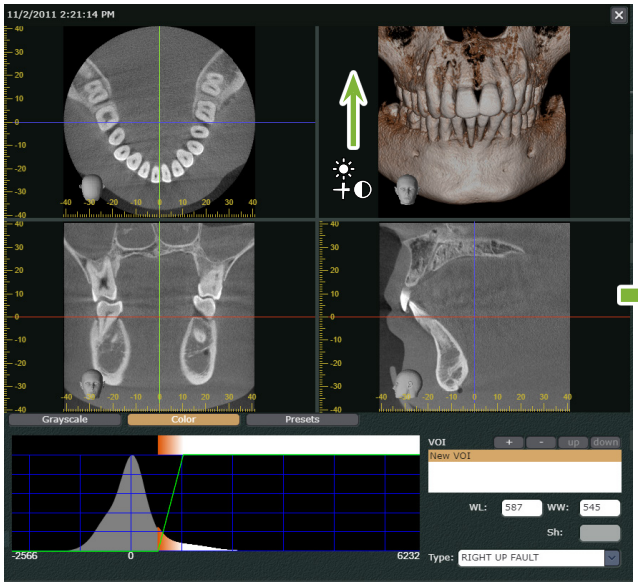


can also be displayed by dragging the volume rendered image while pressing the right button on the mouse.

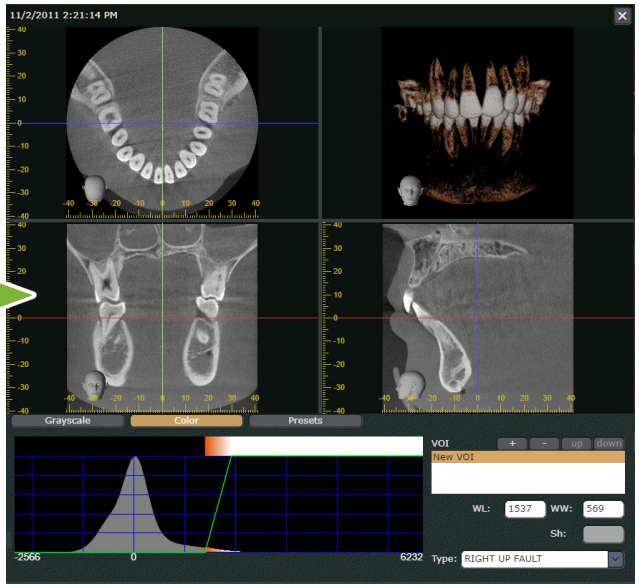
● Adjusting the region of interest

If you drag upward on the volume rendered image, hard tissues such as bones and teeth, and metals will be volume rendered. If you drag it downward, air, and soft tissues such as muscles and skin will be volume rendered.

Before Adjustment



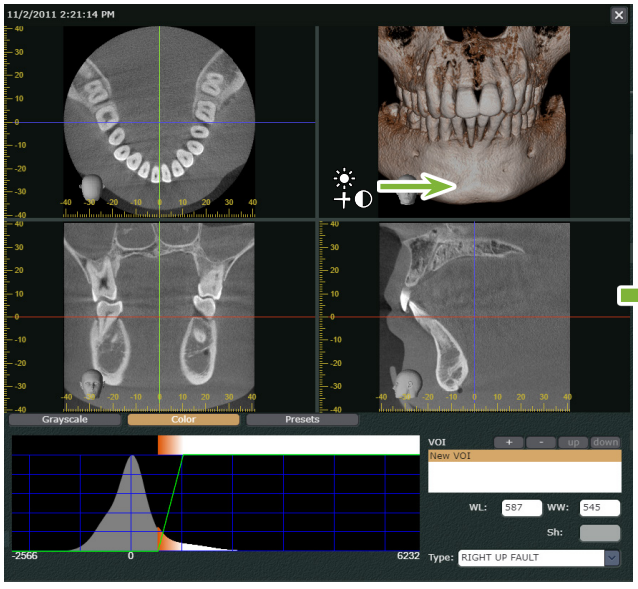
After Adjustment



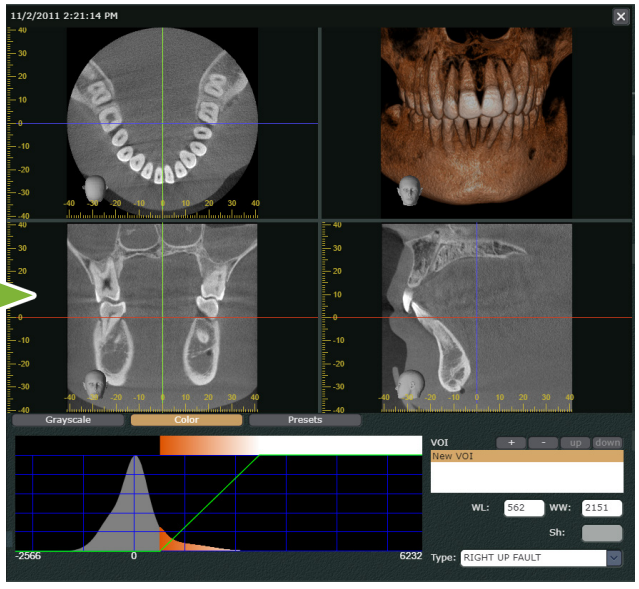
● Adjusting the gradation of the region of interest

Drag to the right on the volume rendered image to lengthen the gradation of the region of interest. Drag to the left to shorten the gradation.

Before Adjustment



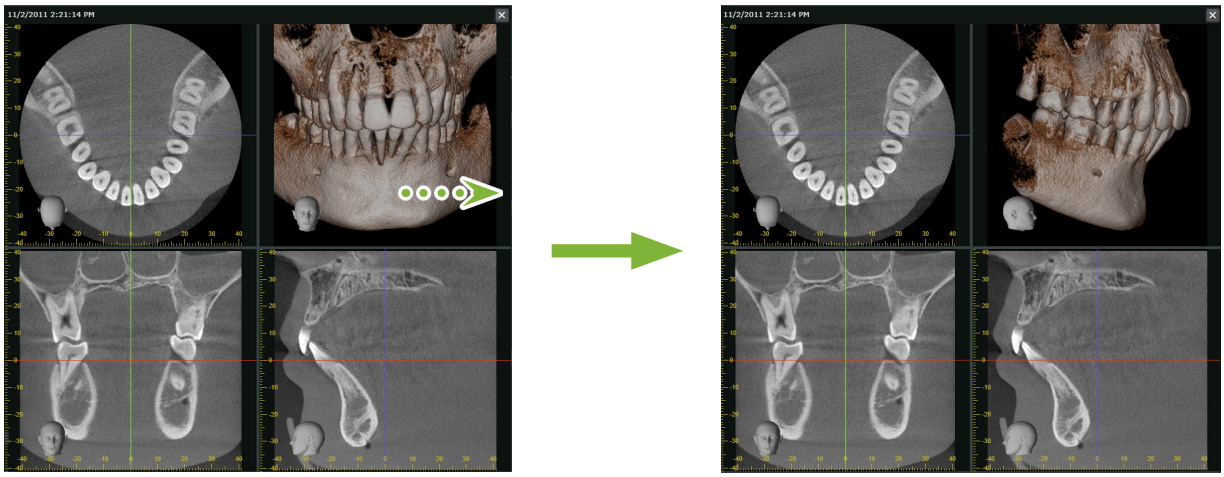
After Adjustment



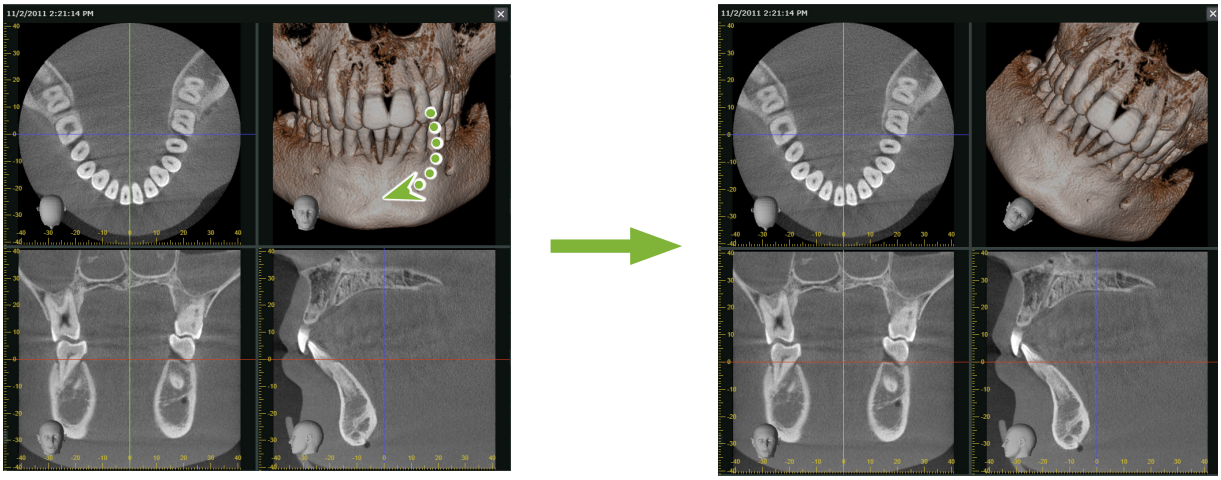
6.2.3 Rotating and moving the image

Rotating and moving the volume rendered image

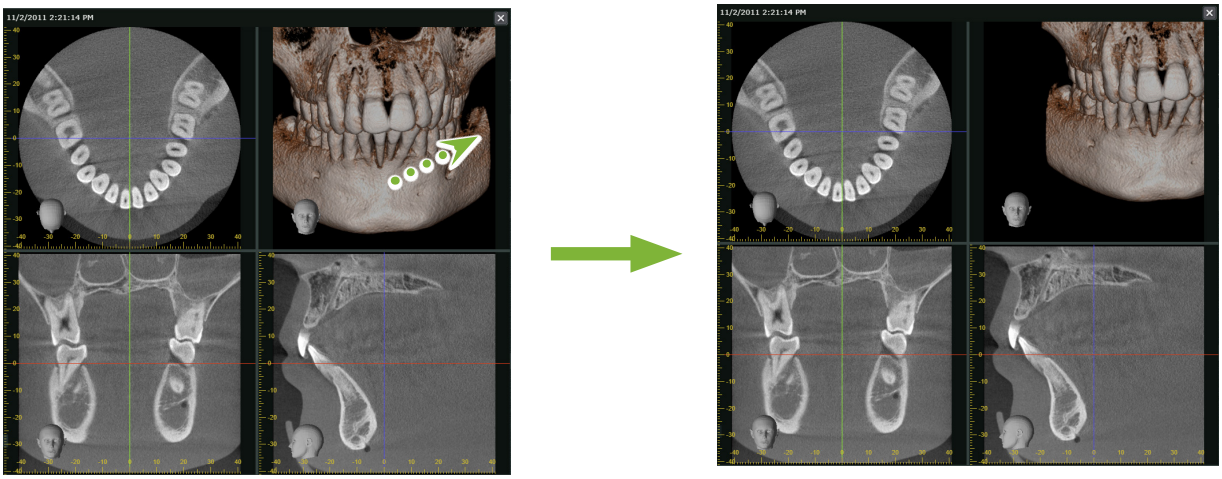
Drag the volume rendered image to rotate it in the direction of the mouse movement.
X, Y and Z slice images do not rotate together. The head on the bottom left indicates the orientation of the image.



Drag while pressing <Ctrl> to rotate the image clockwise and counterclockwise.

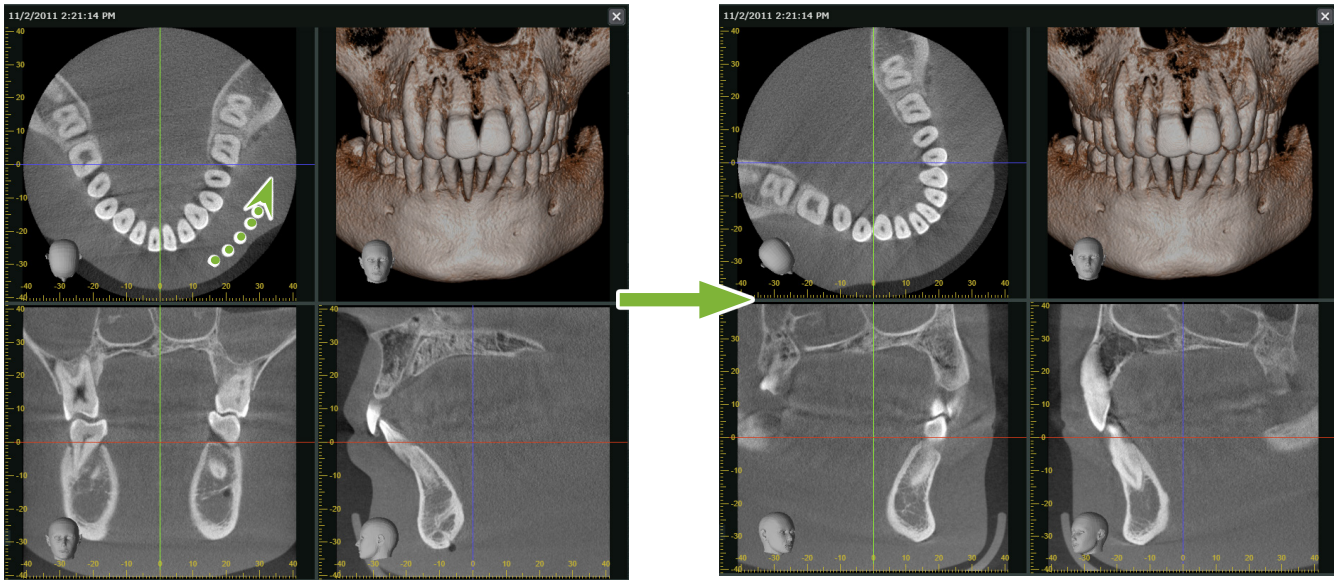


Dragging the image while pressing <Shift> will move it.



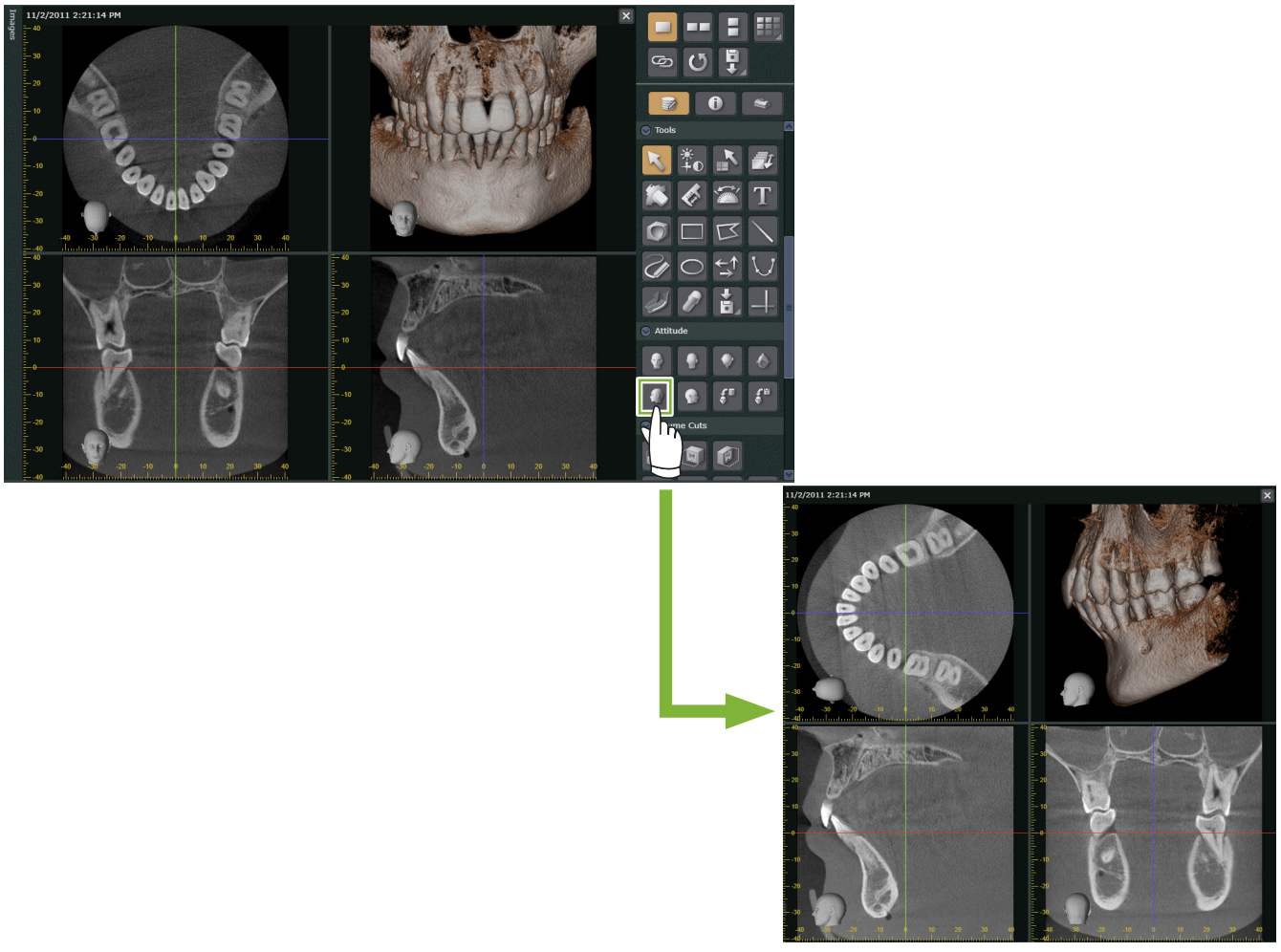
Rotating the CT slice image

Drag on the CT slice image to rotate the image clockwise and counterclockwise.
X, Y and Z slice images can be rotated together. Volume rendered image does not rotate together. It rotates independently.



Reorienting the images with attitude buttons ☞ p. 13 “Attitude”

Click any [Attitude] button in the tool box to set the image orientation.
The CT slice images and the volume rendered image will reorient.

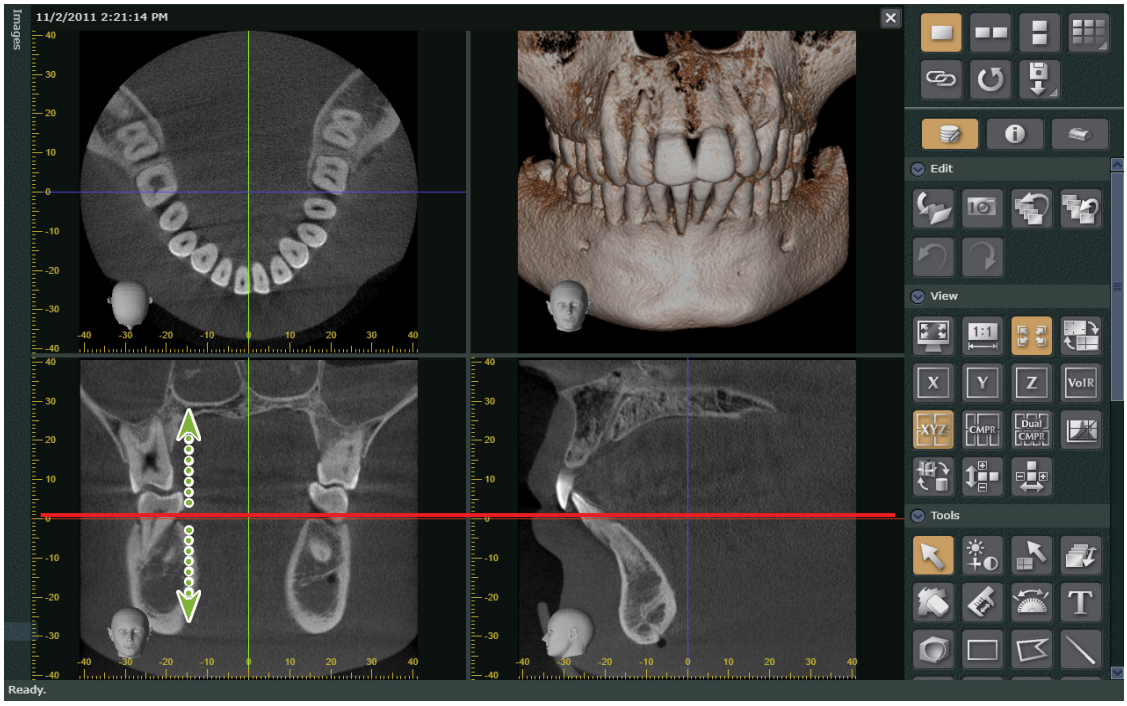


6.3 Generating CMPR Panoramic Image and CMPR Cross-sectional Image

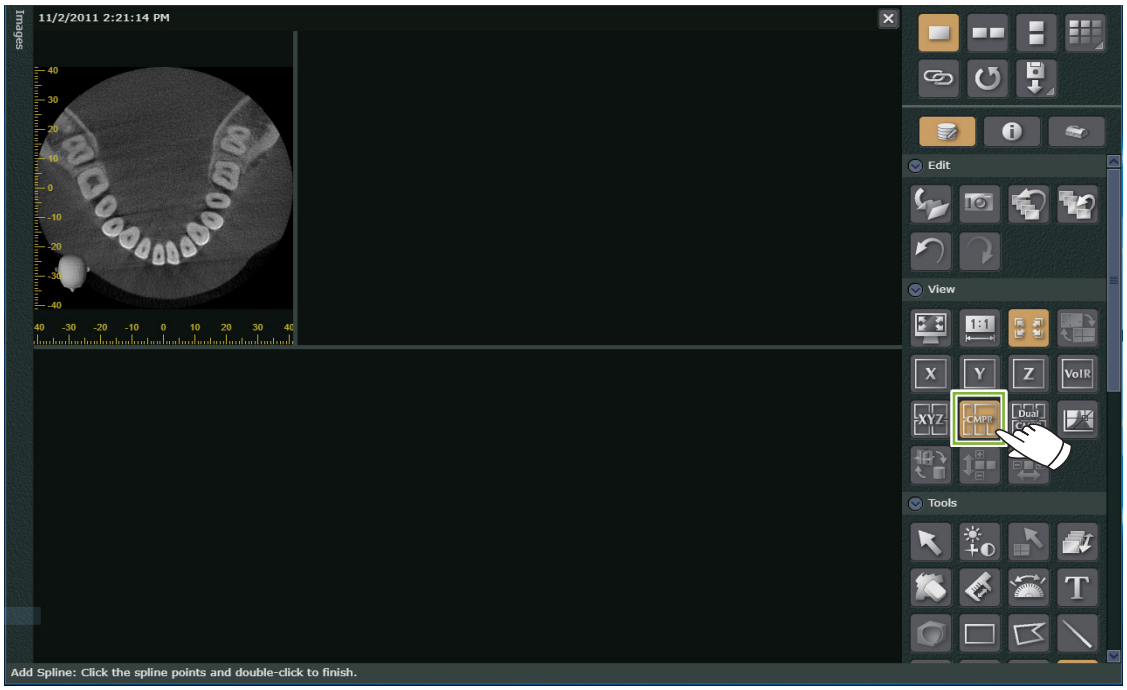
⚠CAUTION

- It may take time to generate the images depending on the performance of the computer.

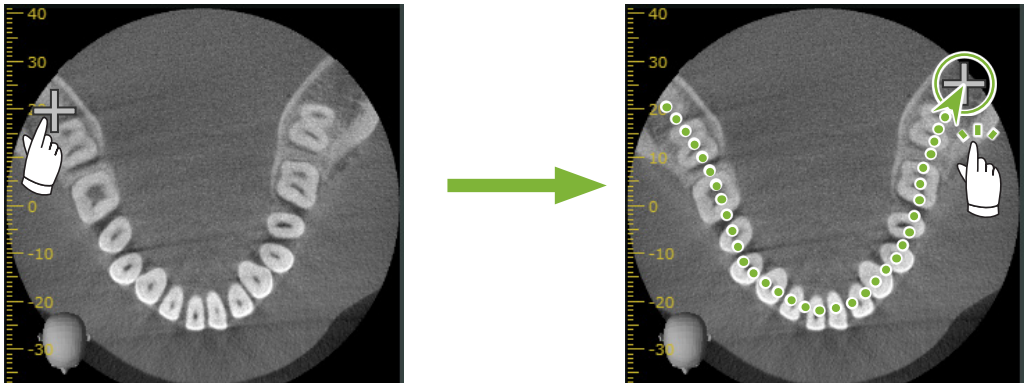
1 Drag the Z cursor line to set the position to draw a spline curve.



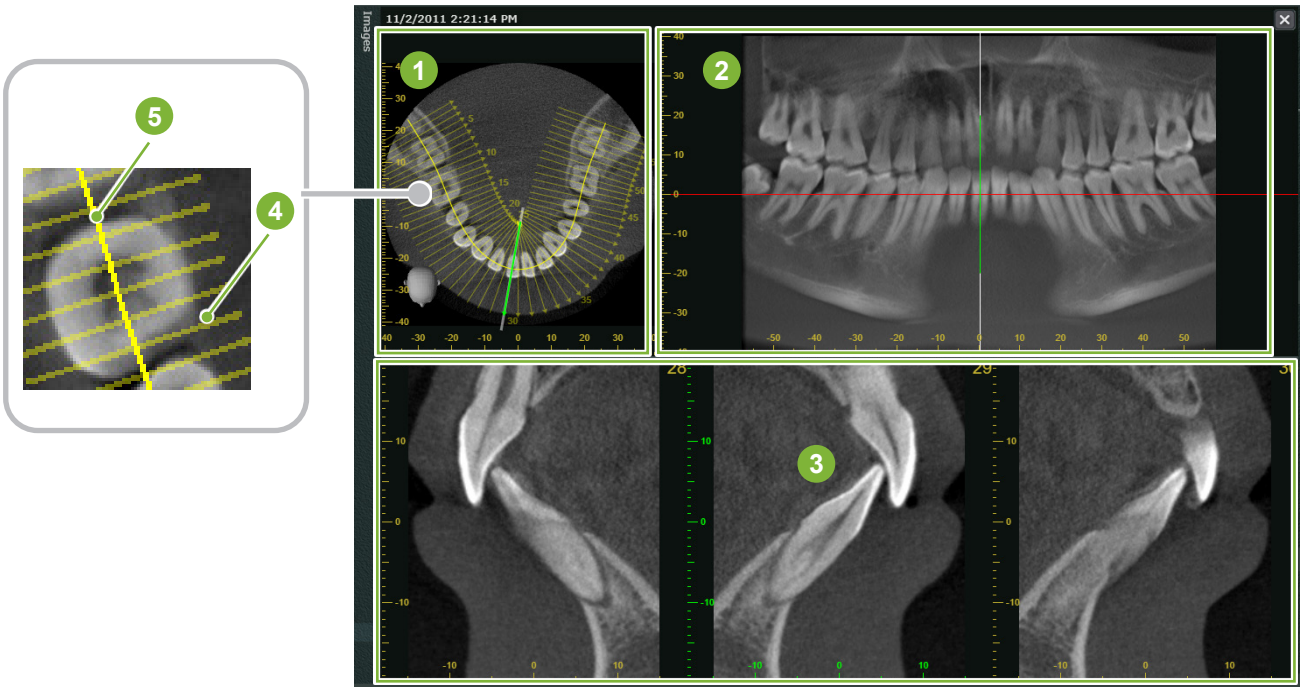
2 Click CMPR to switch to the CMPR screen.



3 Draw a spline curve. If you click and hover the mouse over the Z slice image, a plus symbol will appear. Click multiple points along the dental arch, and double-click the last point.
A CMPR panoramic image and CMPR cross-sectional images will be generated.



● **CMPR Screen**



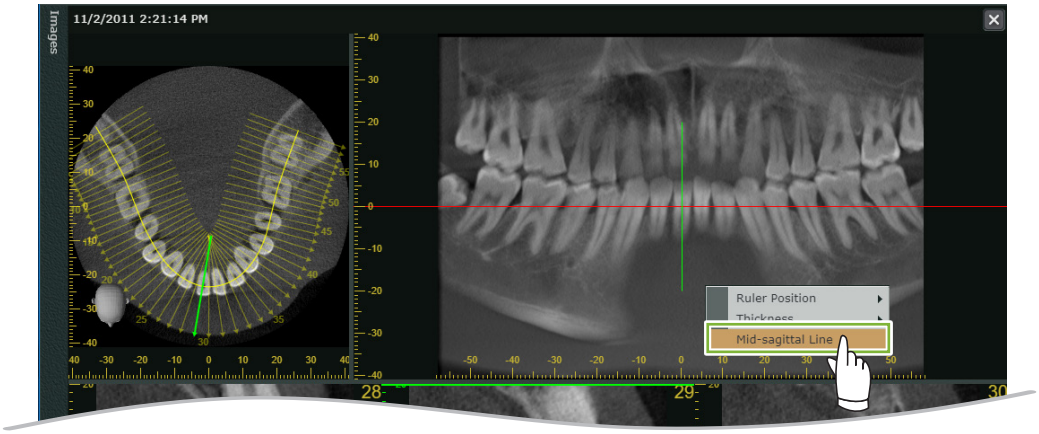
1. Z slice image
2. CMPR panoramic image
3. CMPR cross-sectional images
4. Orthogonal line
5. Spline curve

* Orthogonal line indicates the CMPR cross-sectional position of the CMPR cross-sectional images. The line spacing represents the cross section spacing, and the length of the line represents the width of each cross section.

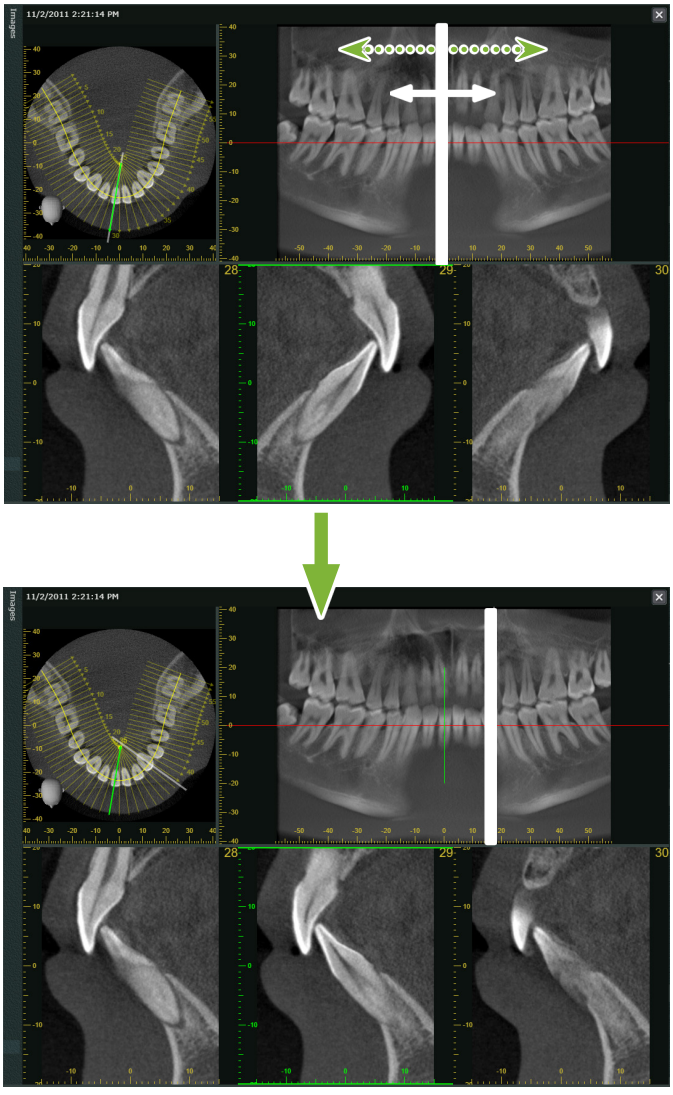
* CMPR panoramic view shows the reconstruction along the spline curve.

Specifying the mid-sagittal plane of the CMPR panoramic image

1 Right-click the CMPR panoramic view. Select [Mid sagittal Line] from the shortcut menu.



2 The mid-sagittal line (vertical white line) will be displayed on the CMPR panoramic view and the Z slice image. Drag the mid-sagittal line where you want to specify the mid-sagittal plane. When the mid-sagittal line is displayed, the CMPR cross-sectional image on the left of the line will face the left, and that on the right will face the right.

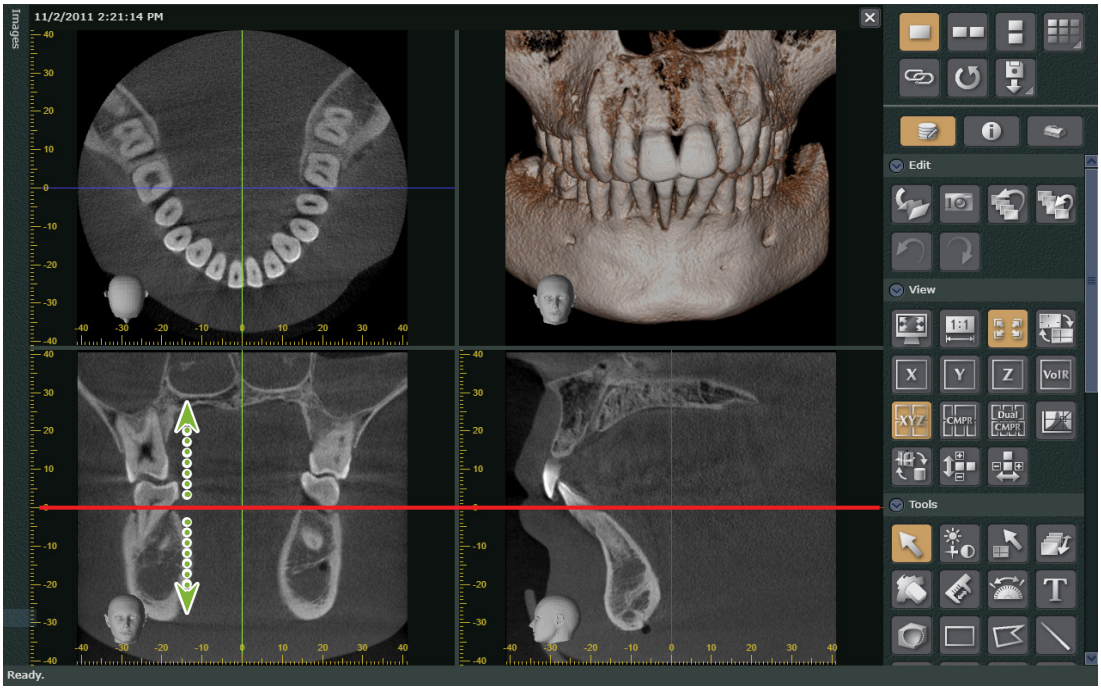


6.4 Generating Two Sets of CMPR panoramic Images and CMPR cross-sectional Images

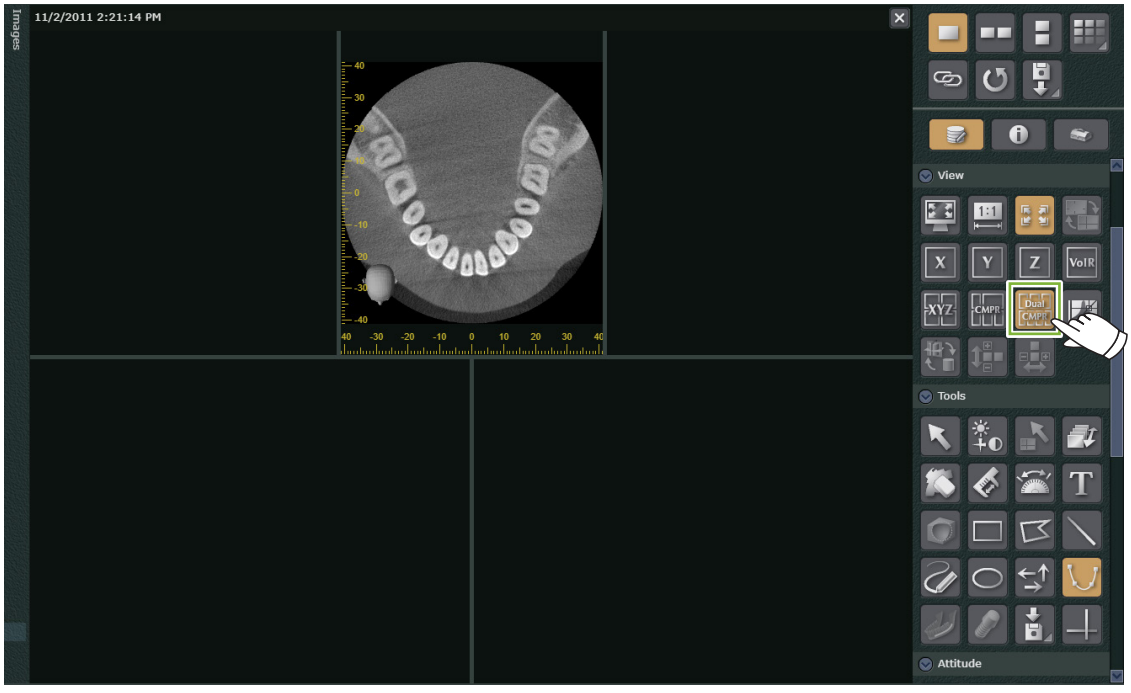
⚠CAUTION

- It may take time to generate the images depending on the performance of the computer.

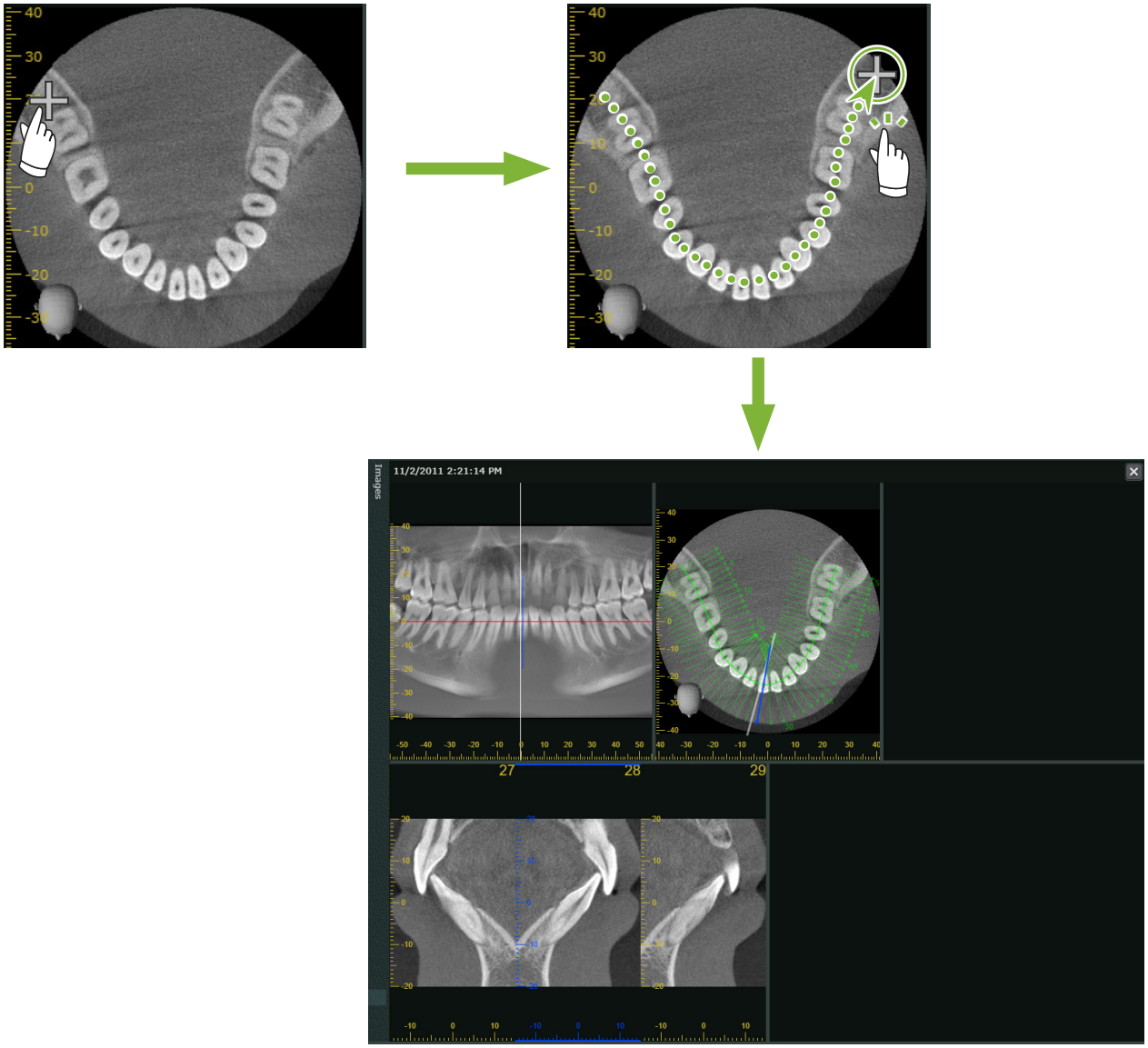
1 Drag the Z cursor line to set the position to draw a spline curve for the first set.



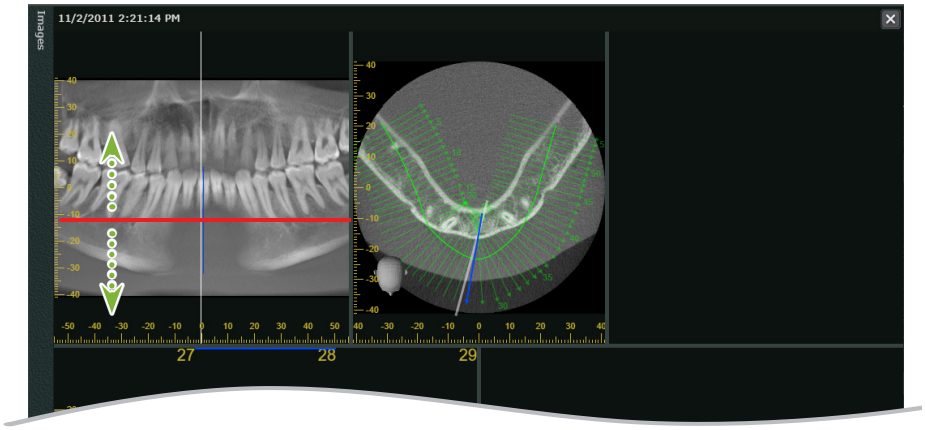
2 Click to switch to the Dual-CMPR screen.



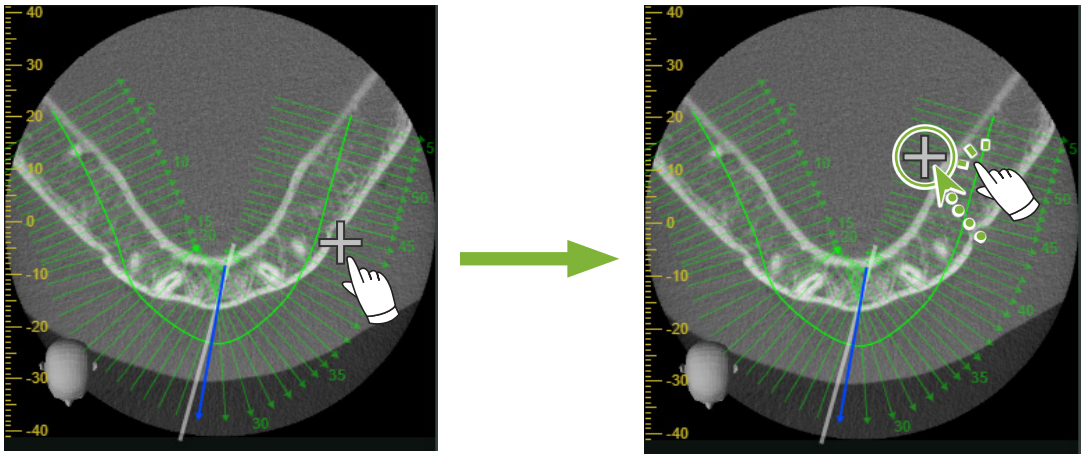
3 Draw a spline curve for the first set. Click and hover the mouse over the Z slice image, a plus symbol will appear. Click multiple points along the dental arch, and double-click the last point.
This will generate the first set of the CMPR panoramic view and CMPR cross-sectional images, which will be displayed on the left of the screen.



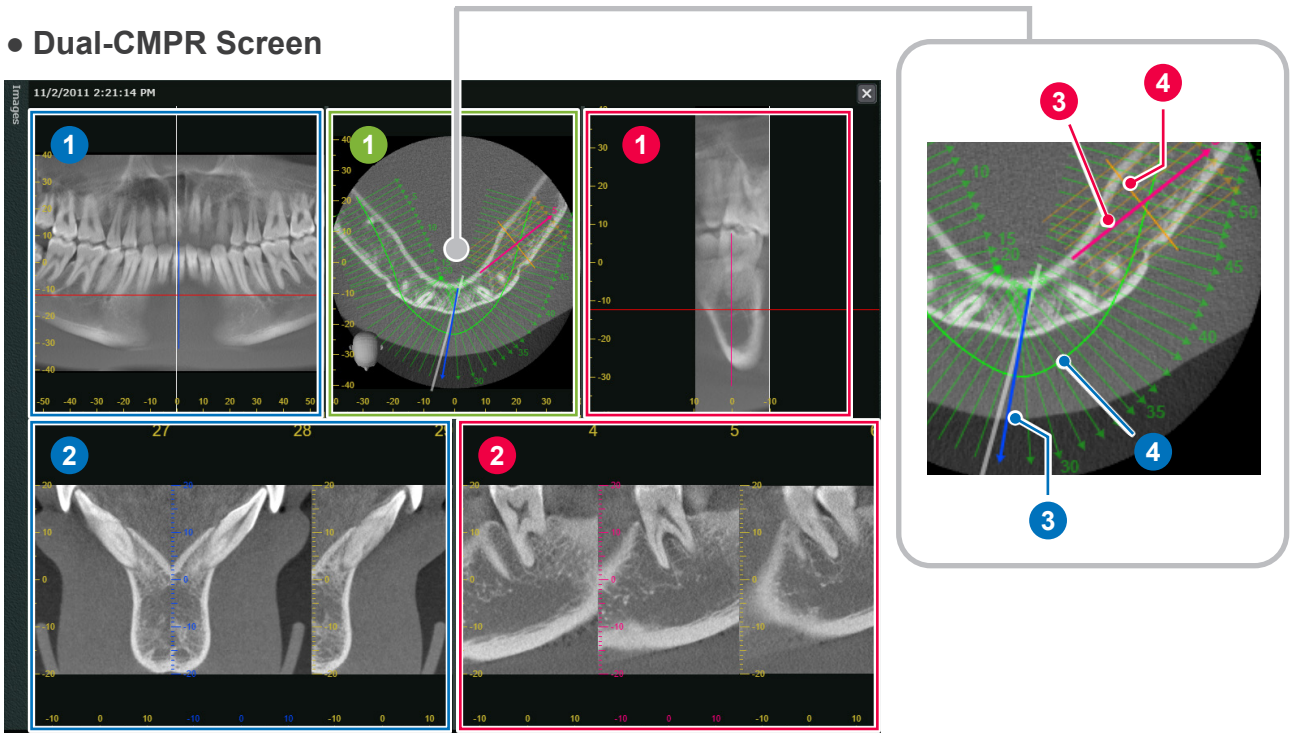
4 Optionally drag the Z cursor line of the generated CMPR panoramic view and determine the position where you want to draw the second spline curve if needed.



5 Click and draw the second spline curve.
This will generate the second set of the CMPR panoramic view and CMPR cross-sectional images, which will be displayed on the right of the screen.



● **Dual-CMPR Screen**



1 First CMPR panoramic image
2 First CMPR cross-sectional image set
3 First orthogonal line
4 First spline curve

1 Z slice image

1 Second CMPR panoramic image
2 Second CMPR cross-sectional image set
3 Second orthogonal line
4 Second spline curve

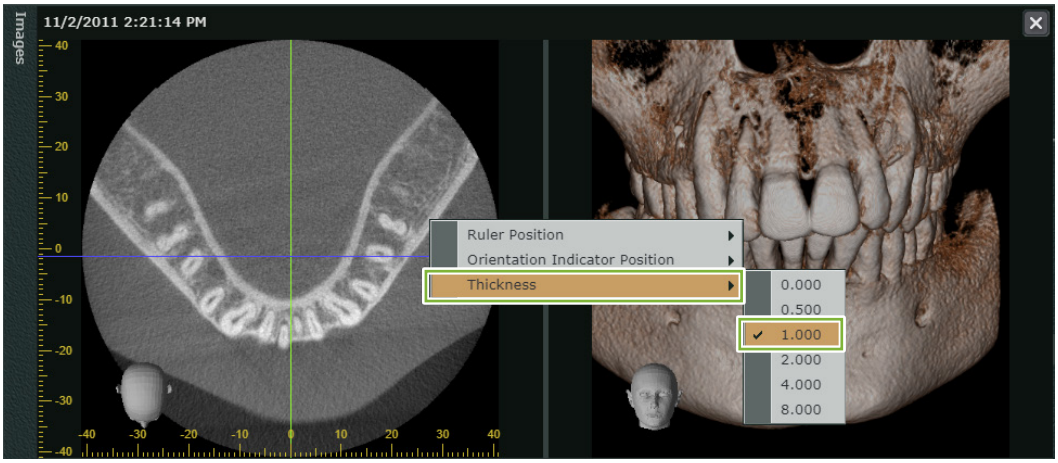
6.5 Presenting the Dental Implant

You can present the implant treatment plan to explain the course of treatment to the patient.
You can draw the position of the neural tube on the image to indicate the position relative to the dental implant.

⚠CAUTION

- If the slice thickness exceeds 1.0 mm, the neural tube cannot be drawn.

Right-click the image and select [Thickness]. Set the thickness to 1.0 mm or less.

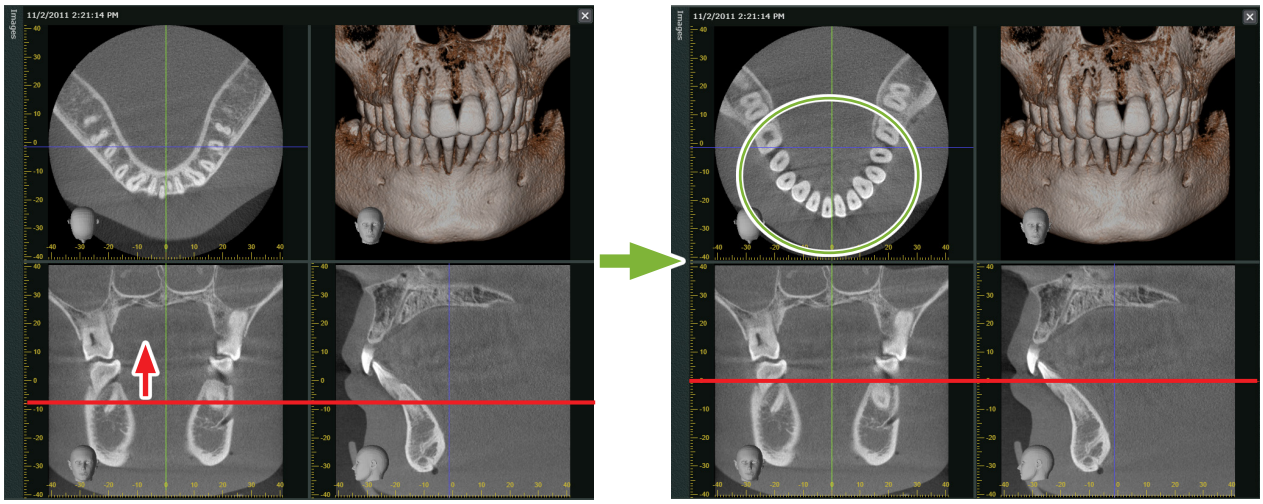


When indicating the implant on the 36th tooth

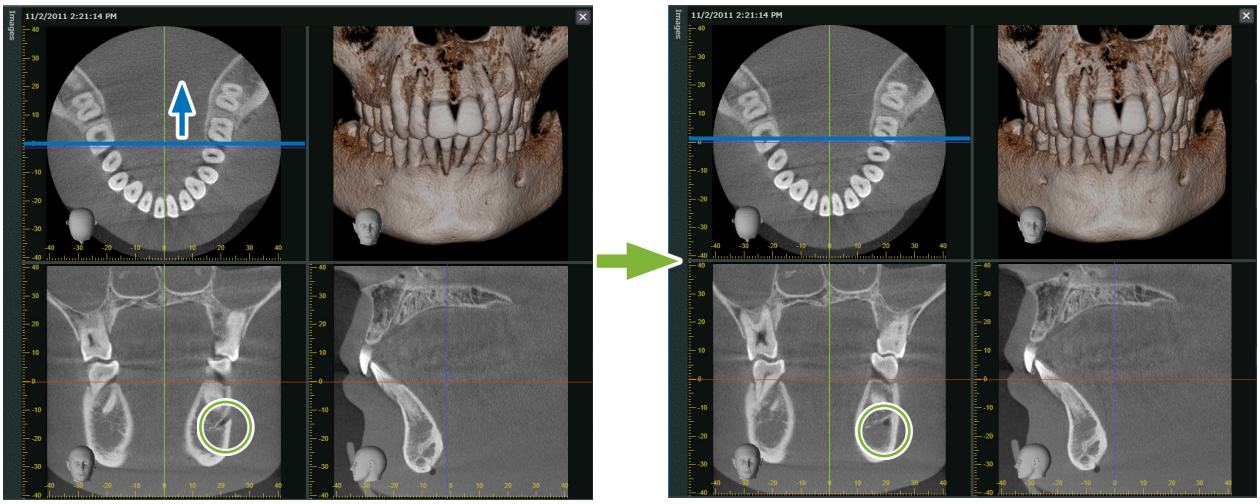
(The implant used in this example is the Thommen Medical AG, SPI Contact 4.13.224 and 4.23.224, 11.0 mm length, 3.5 mm diameter)

• When drawing the neural tube from the mental foramen

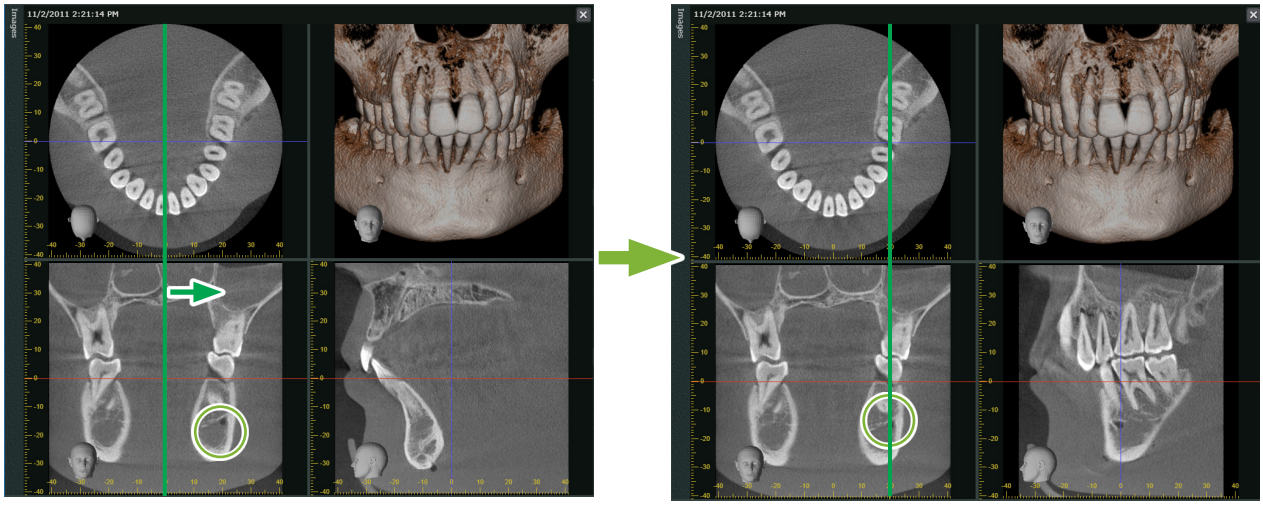
1 Draw the neural tube. Align the Z cursor line with the position where you can confirm the rows of teeth.



2 Move the Y cursor line to find the neural tube from the mental foramen on the Y slice image.

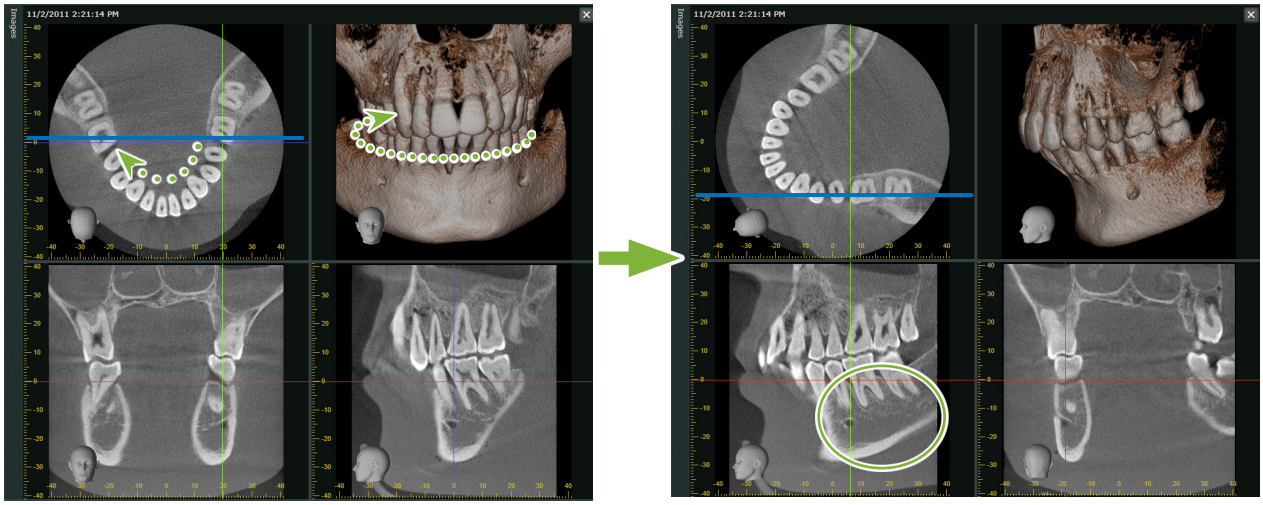


3 Align the X cursor line to the neural tube.

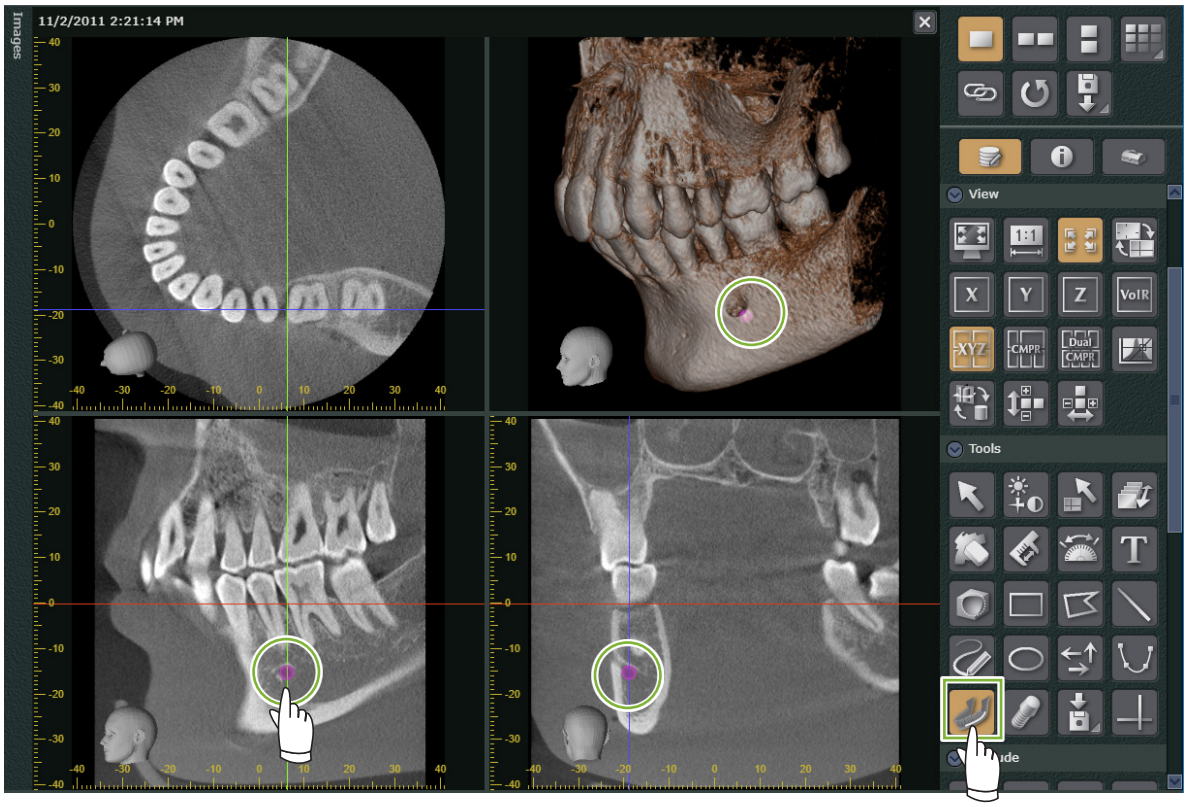


4 Rotate the Z slice image so that the row of teeth and the Y cursor line are parallel to each other. At this time, while looking at the Y slice image, set the entire neural tube to an angle that is easy to check.

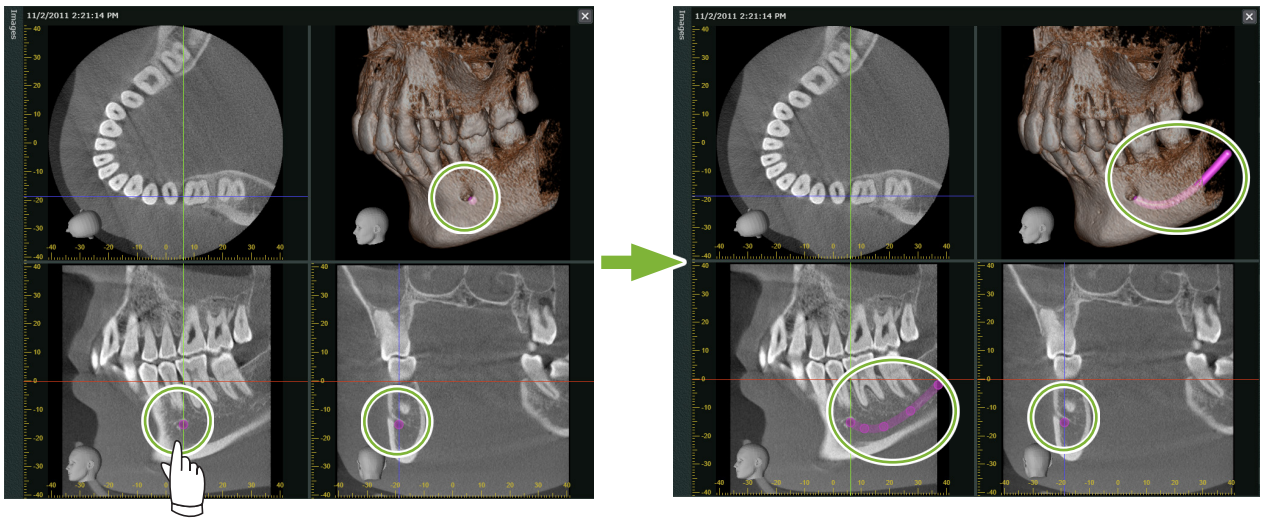
Adjust the orientation of the volume rendered image so as to be able to check the neural tube in the image.



5 Click and right-click the starting point of the neural tube. The mouse pointer will change its appearance to a small circle.

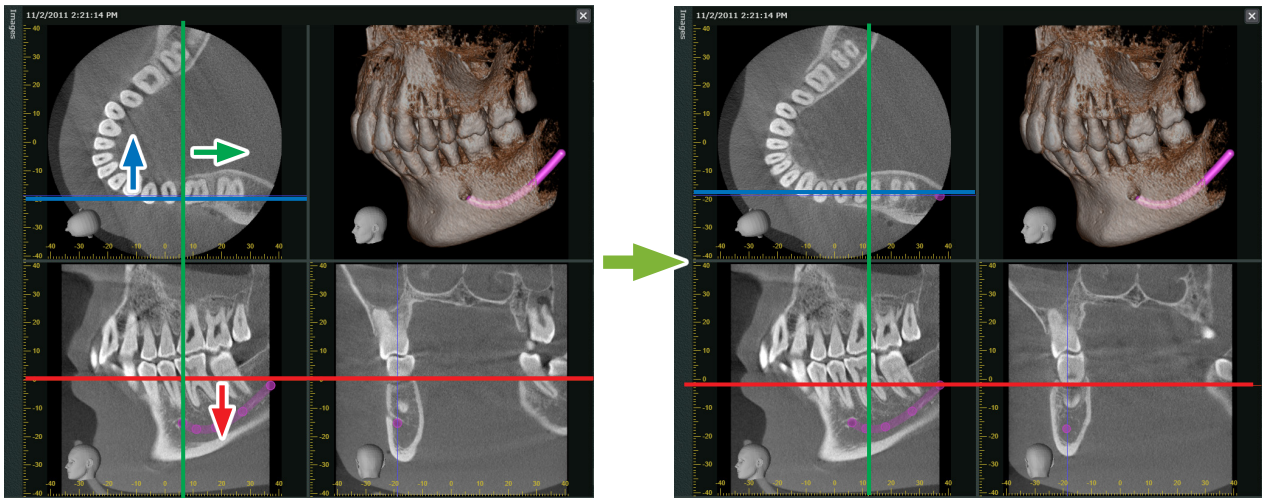


6 Keep right-clicking till the end point of the neural tube. The clicked points will connect to form the neural tube.

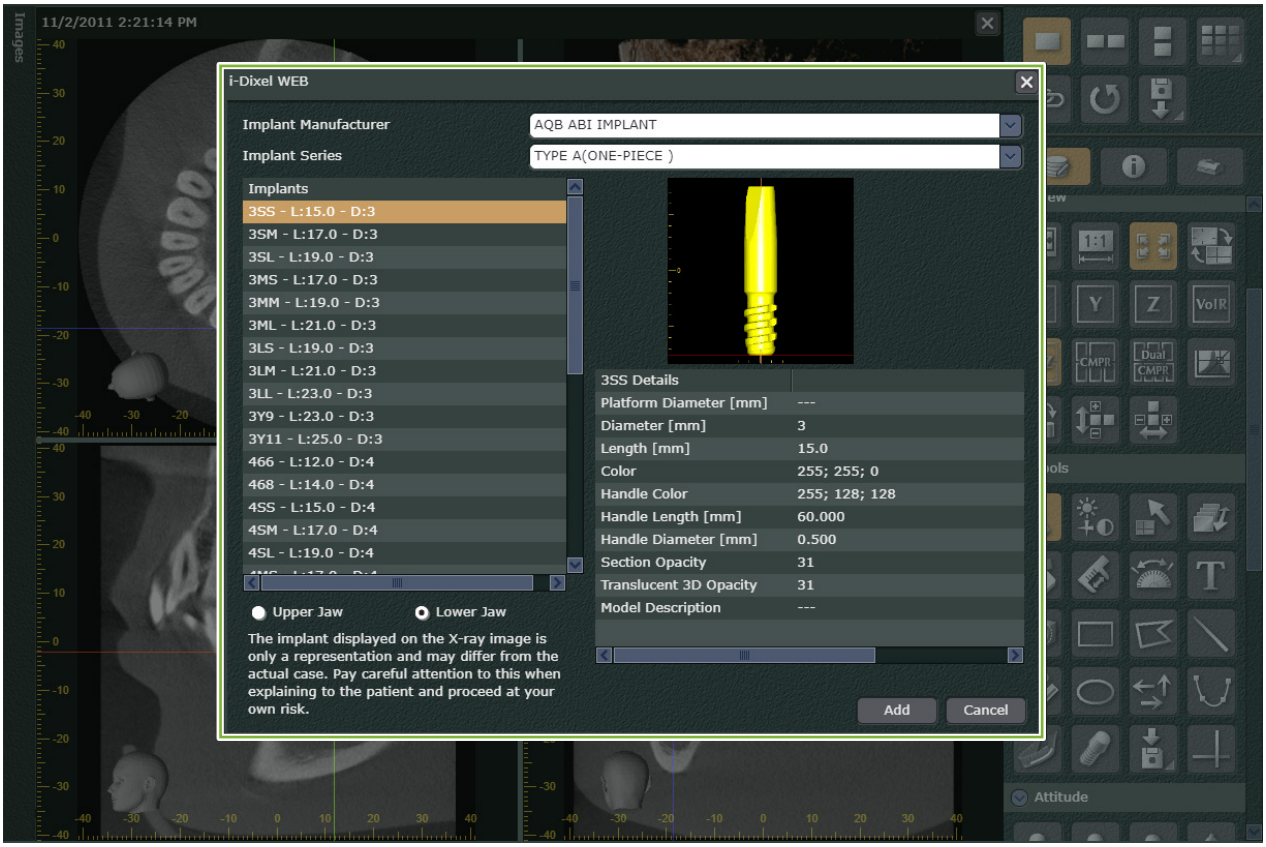


7 Click to finish drawing the neural tube.

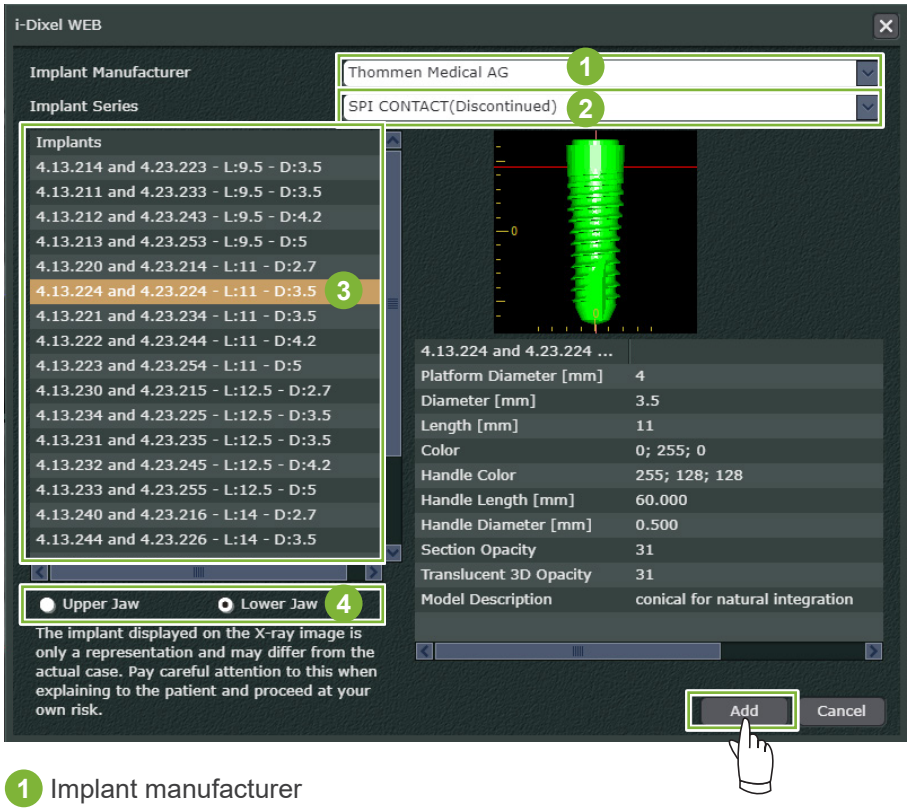
8 Indicate the desired location of the dental implant in the image. Align the X, Y and Z cursor lines to the 36th tooth.



9 Click to display the dialog to select the dental implant.

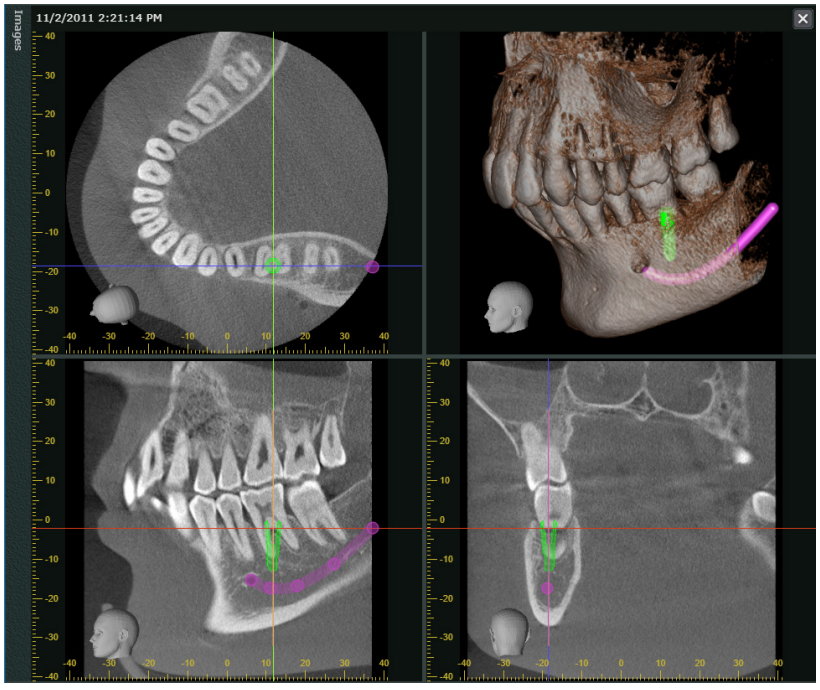


10 Select 1 to 4 and click [Add].

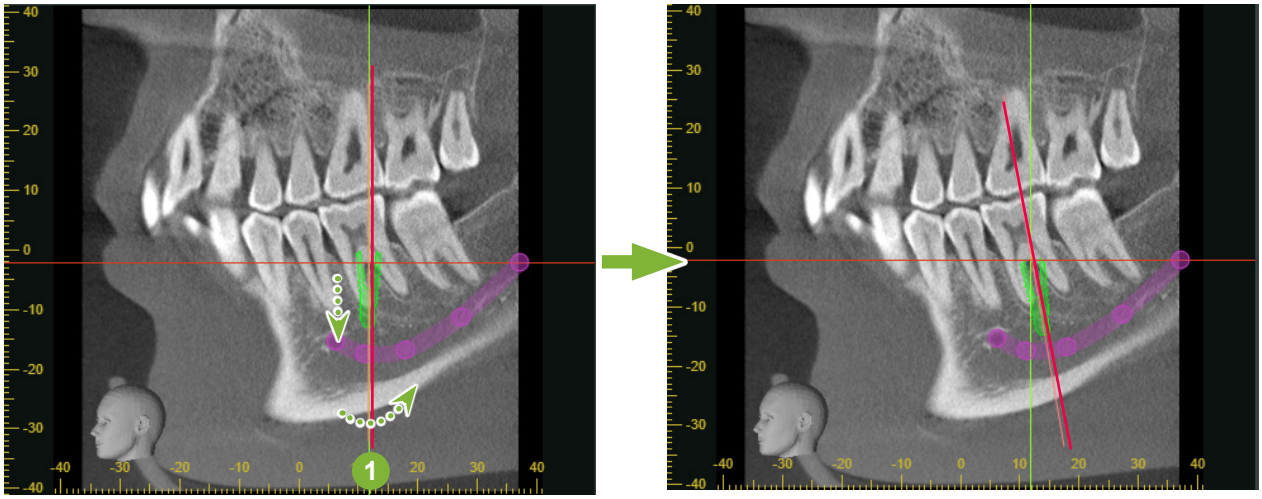


1. Implant manufacturer
2. Implant series
3. Implant model
4. Implant orientation

11 The implant will be displayed in the segment where the X, Y and Z lines intersect. You can check the implant on the volume rendered image.

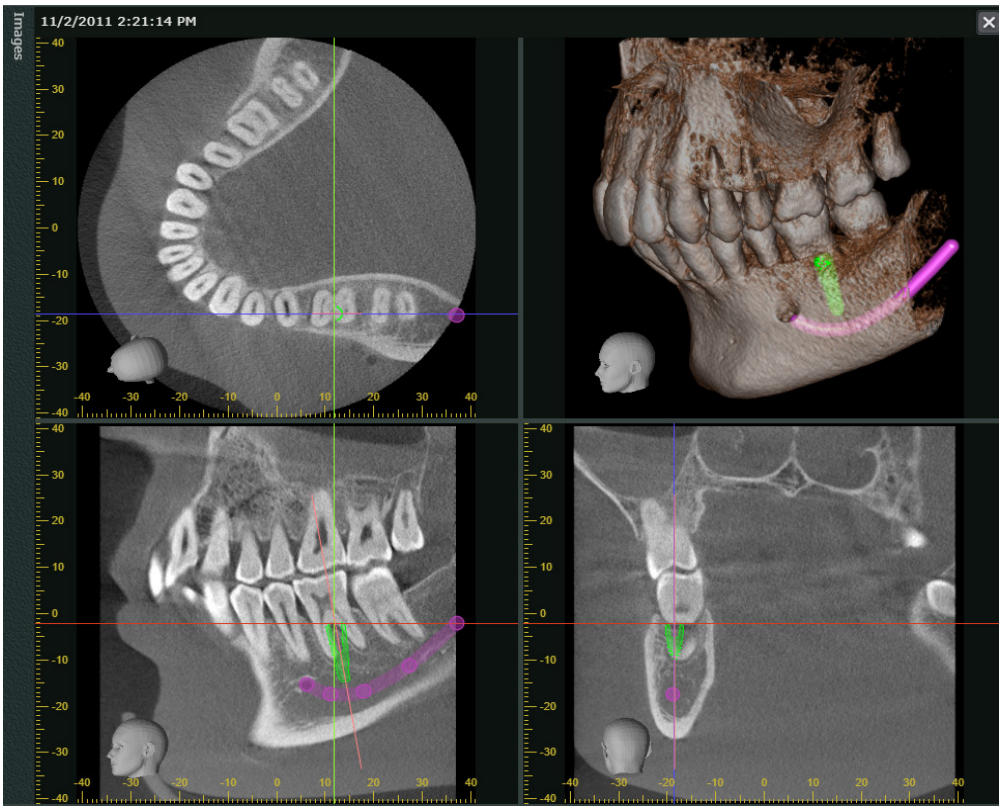


12 Change the position of the implant by dragging, and drag 1 to adjust the angle.



1 Handle

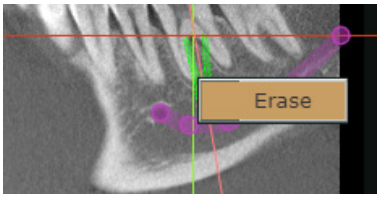
13 Click to finish positioning the implant.



When erasing the neural tube or an implant

Select and click on the neural tube or an implant.

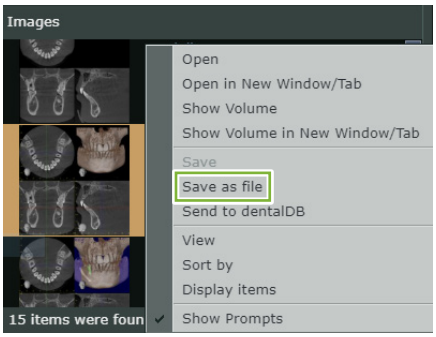
You can also erase from the shortcut menu that appears when you right-click on the neural tube or an implant.



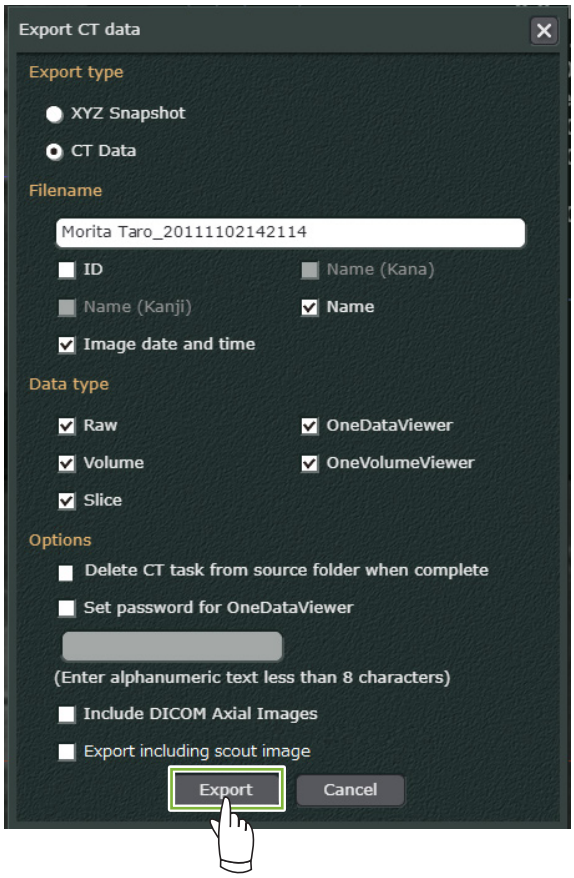
6.6 Exporting CT Data

1 When editing the CT data, click , and select [Save as file].

You can also export the data from the popup menu that appears when you right-click the thumbnail.
Select [Save as file].



2 A dialog will be displayed. Click [Export].

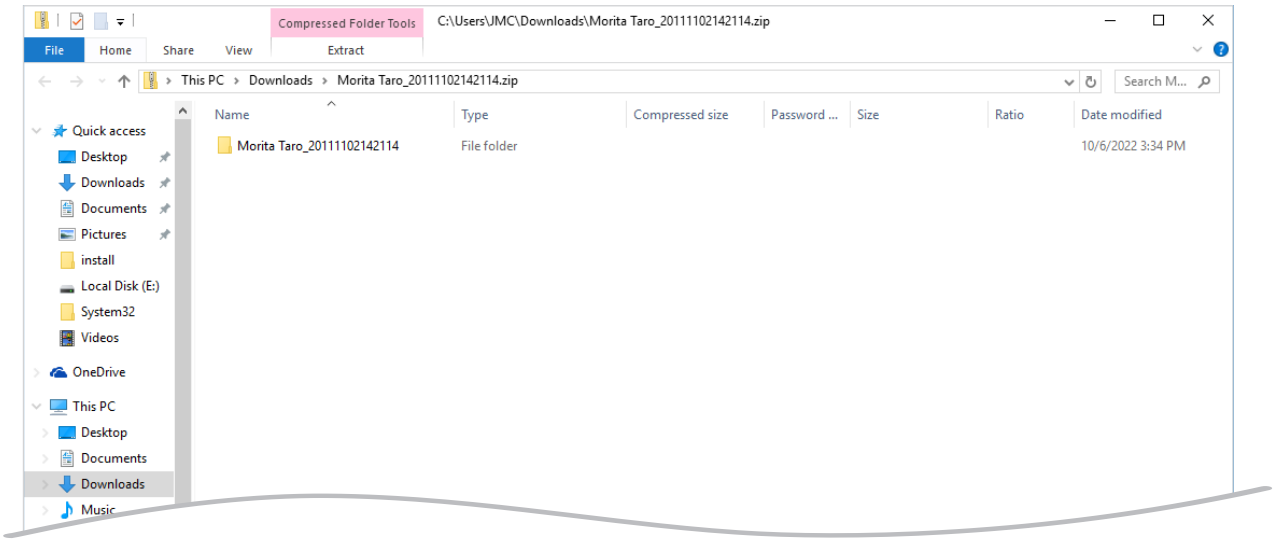


3

will be displayed while the data is being exported.

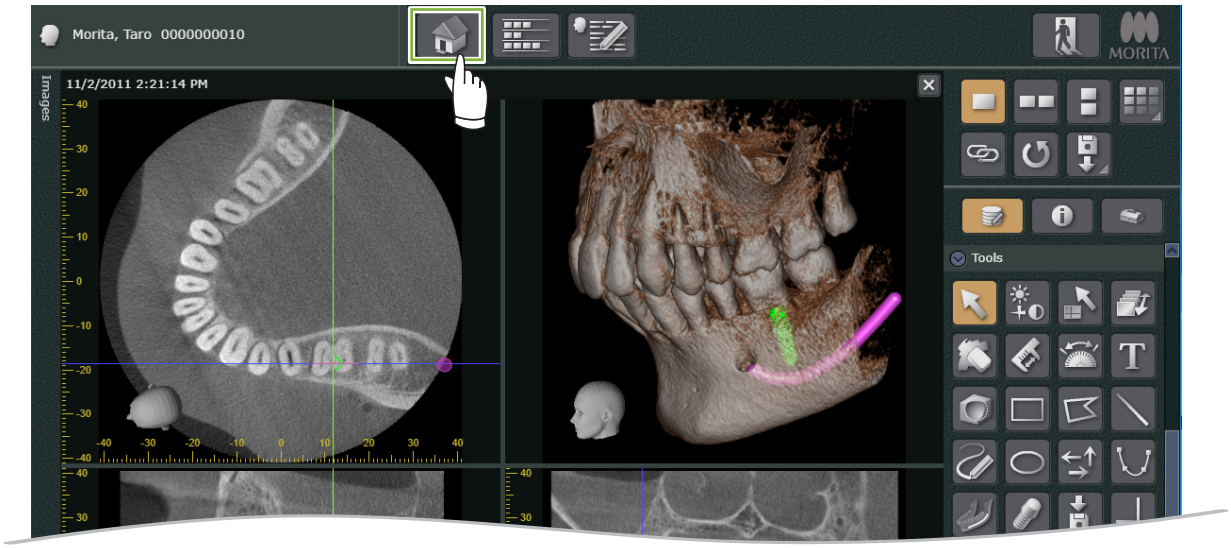
4 Once the export is complete, the

display will disappear and the data will be saved to the device.

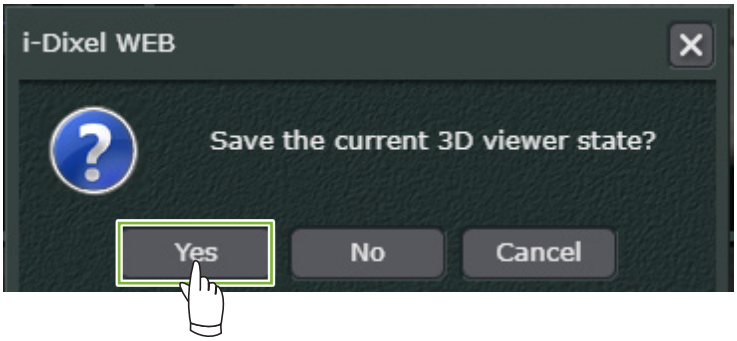


6.7 Returning to the Home Screen

1 Once you finish editing the CT data, click .



2 The following message will be displayed. If you click [YES], the edited CT data will be saved, and you will be returned to the Home Screen. A new thumbnail will be added.



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