Simplant®

CBCT to Simplant®
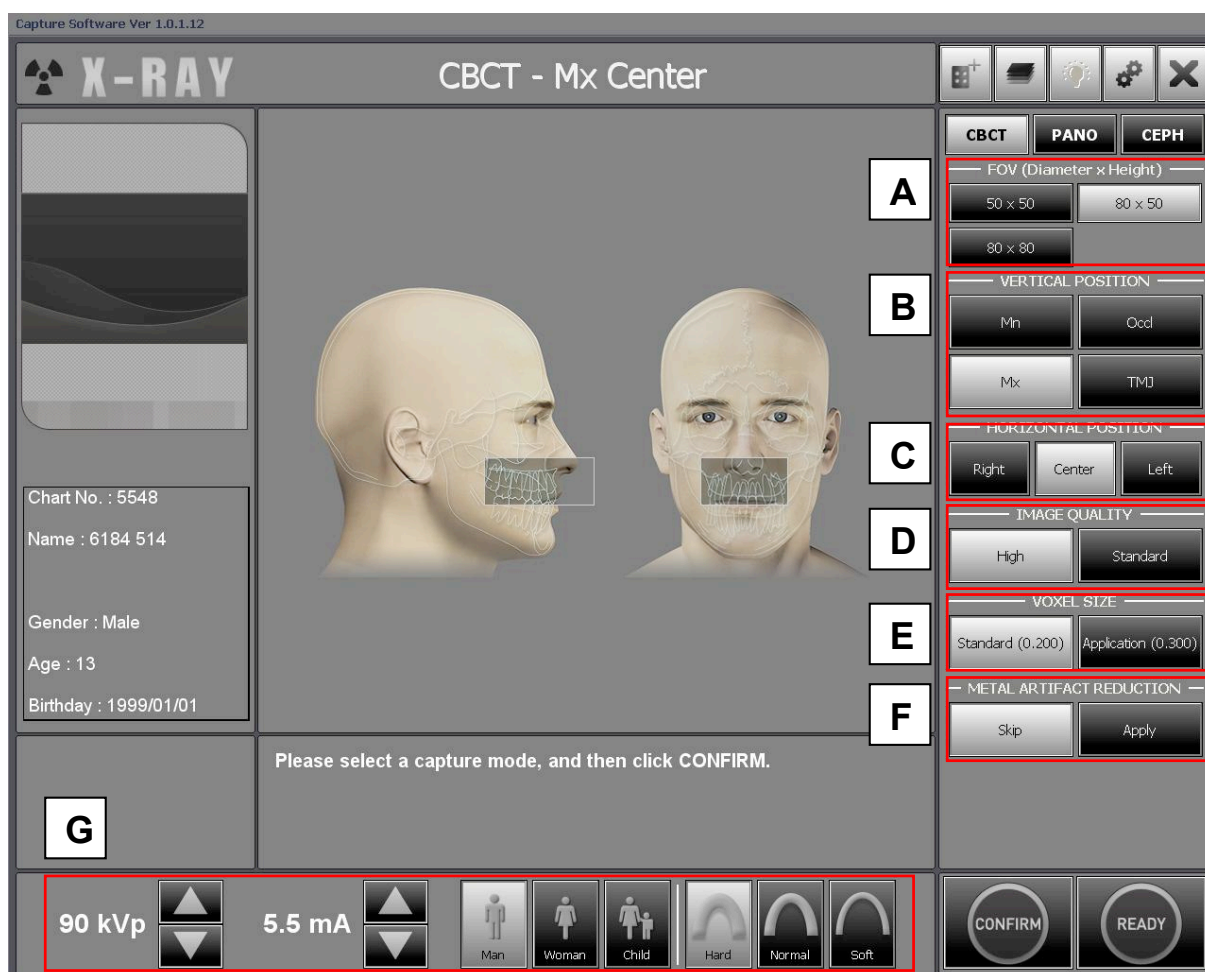
- Export protocol for Vatech

This protocol gives a detailed description of the steps to be followed for exporting your Vatech scan images in DICOM format and for importing these in Simplant. This protocol aims at an optimal visualization of your images in Simplant.
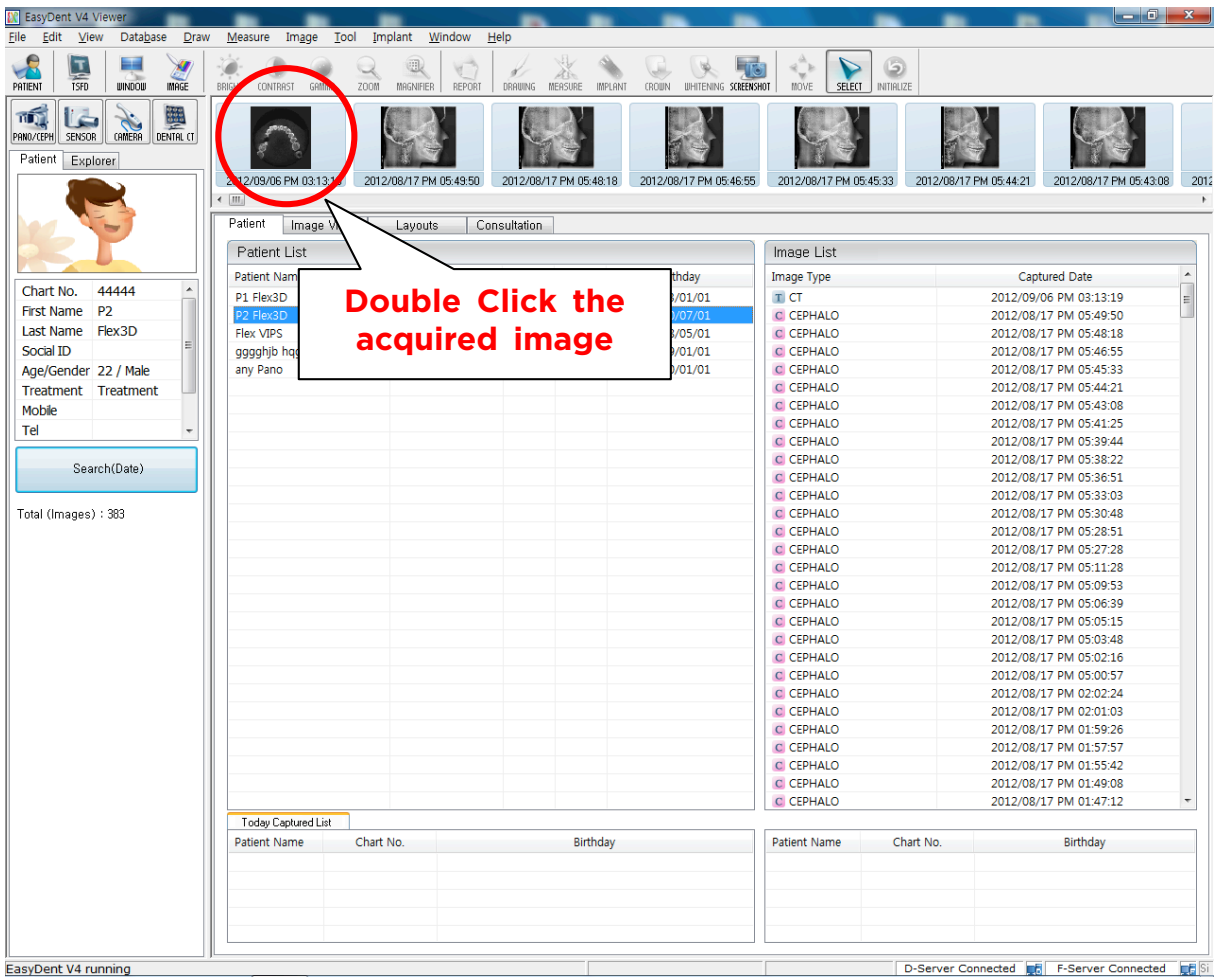
Part 1: Vatech NCSW software

1. Image Acquisition

Capture software: Vatech NCSW version 1.0.1.2 or newer.

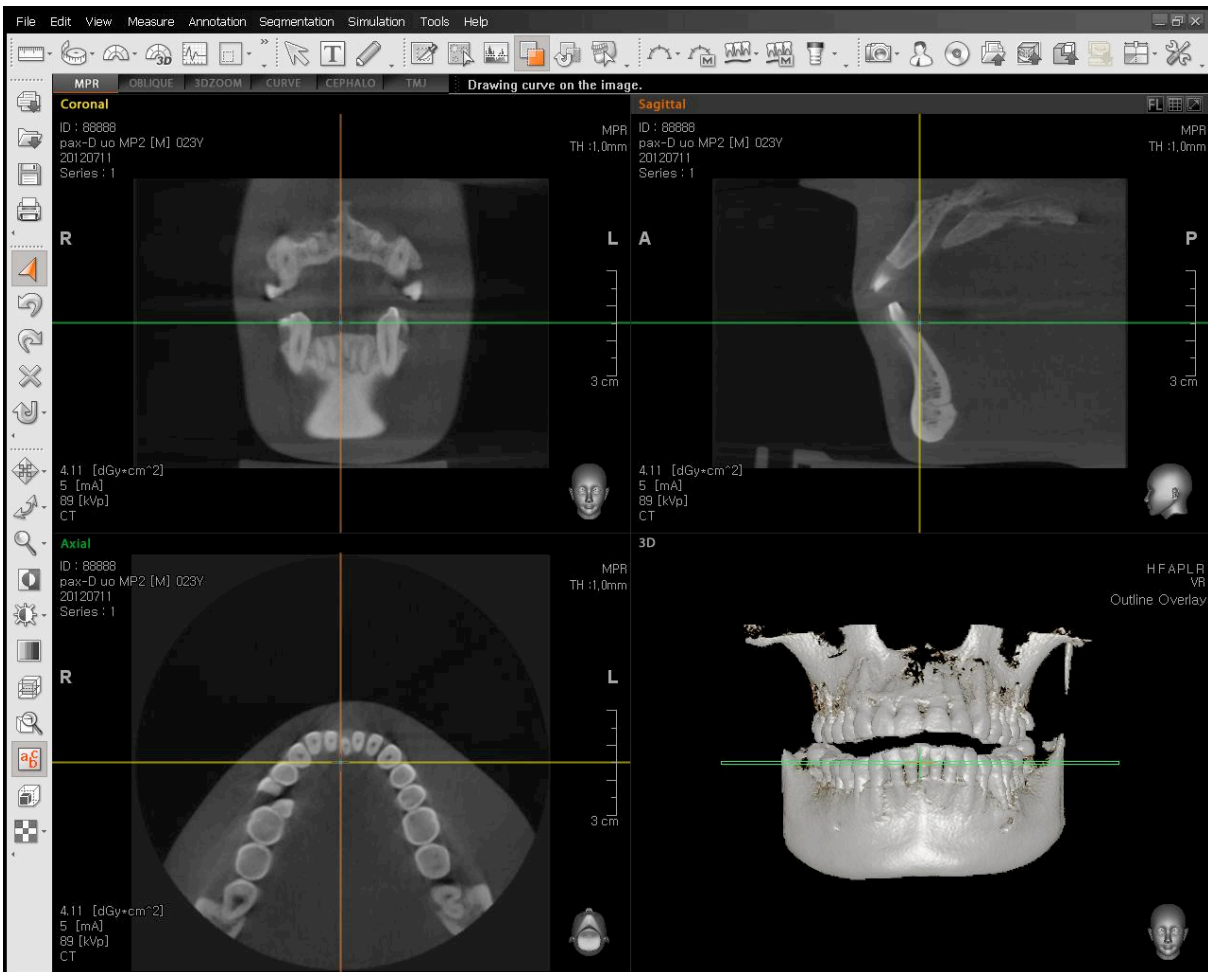| A	FOV (Field Of View)	80 x 50 or larger
B	Vertical Position	Occl (Occlusion)
C	Horizontal Position	Center
D	Quality Selection	High
E	Voxel Selection	Standard
F	Metal artifact reduction	depending on the patient
G	kVp/mA	depending on the patient

Note: Capture software configuration may differ slightly depending on the product.

2. Export image from NCSW
   a. Capture the image according to the Vatech instruction.
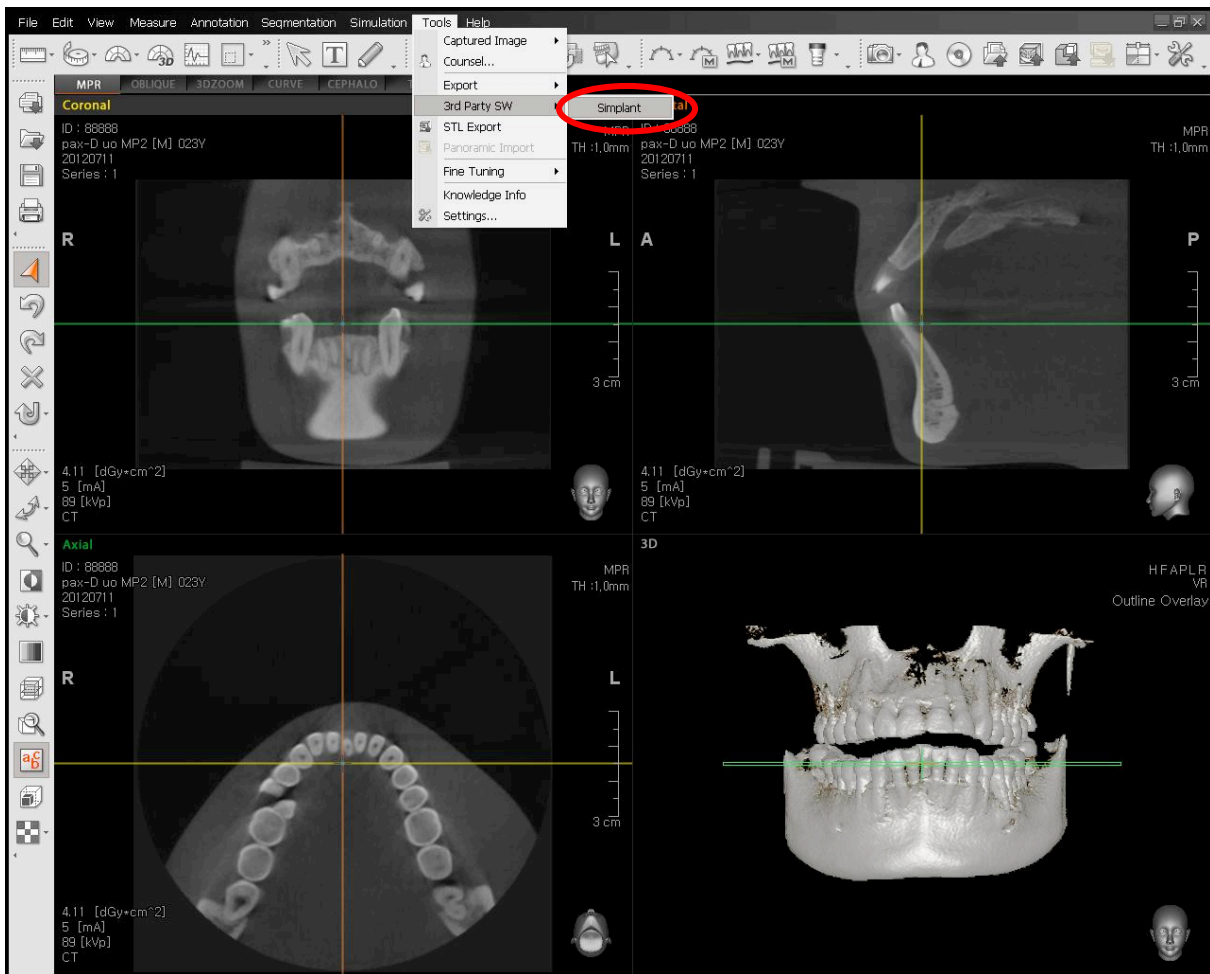   b. Go to EzDent to take the scanned image.

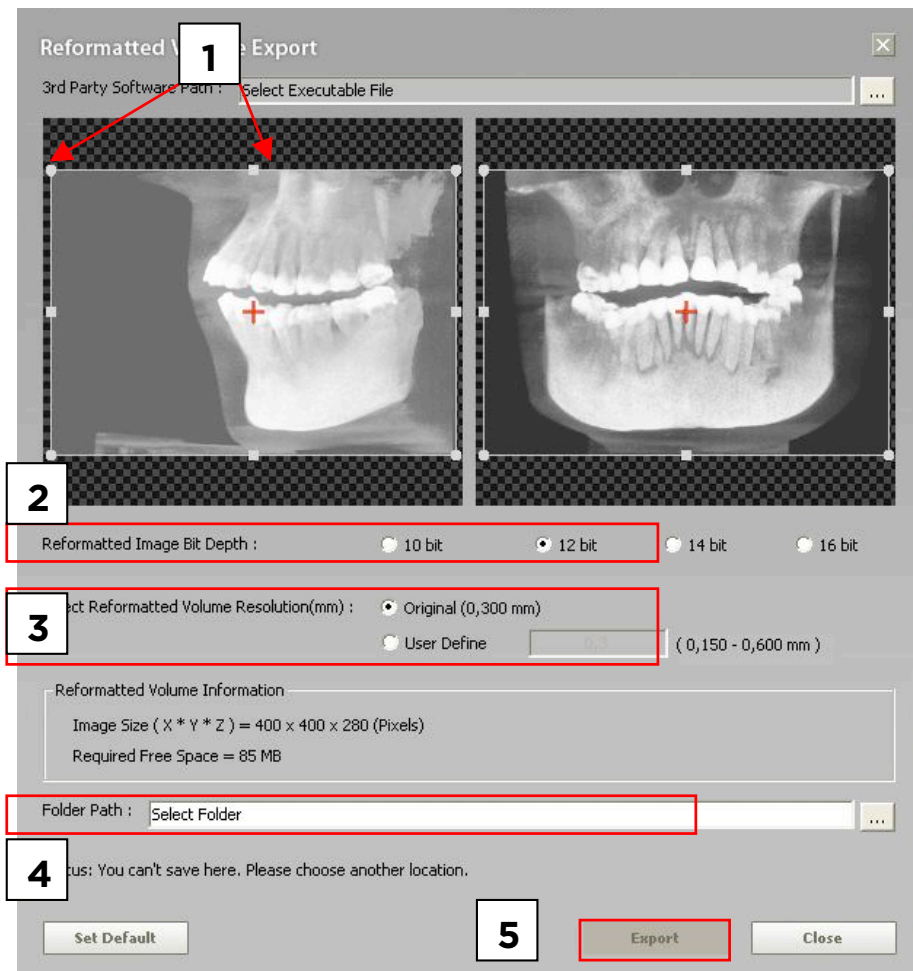c. Click Image in EzDent menu, and run the Ez3D for viewing the image.

Ez3D Viewer: Need the Vatech Ez3D Premium version.

d. Select Tools in the top menu → 3rd Party SW → Simplant

e. You can set the image parameters in Reformatted Volume Export window.
1. Select ROI (region of interest) in the Acquired Images.
2. Select the desired Image Bit Depth: <u>12bits</u> recommended.
3. Select desired Volume Resolution: <u>0.2</u> recommended.
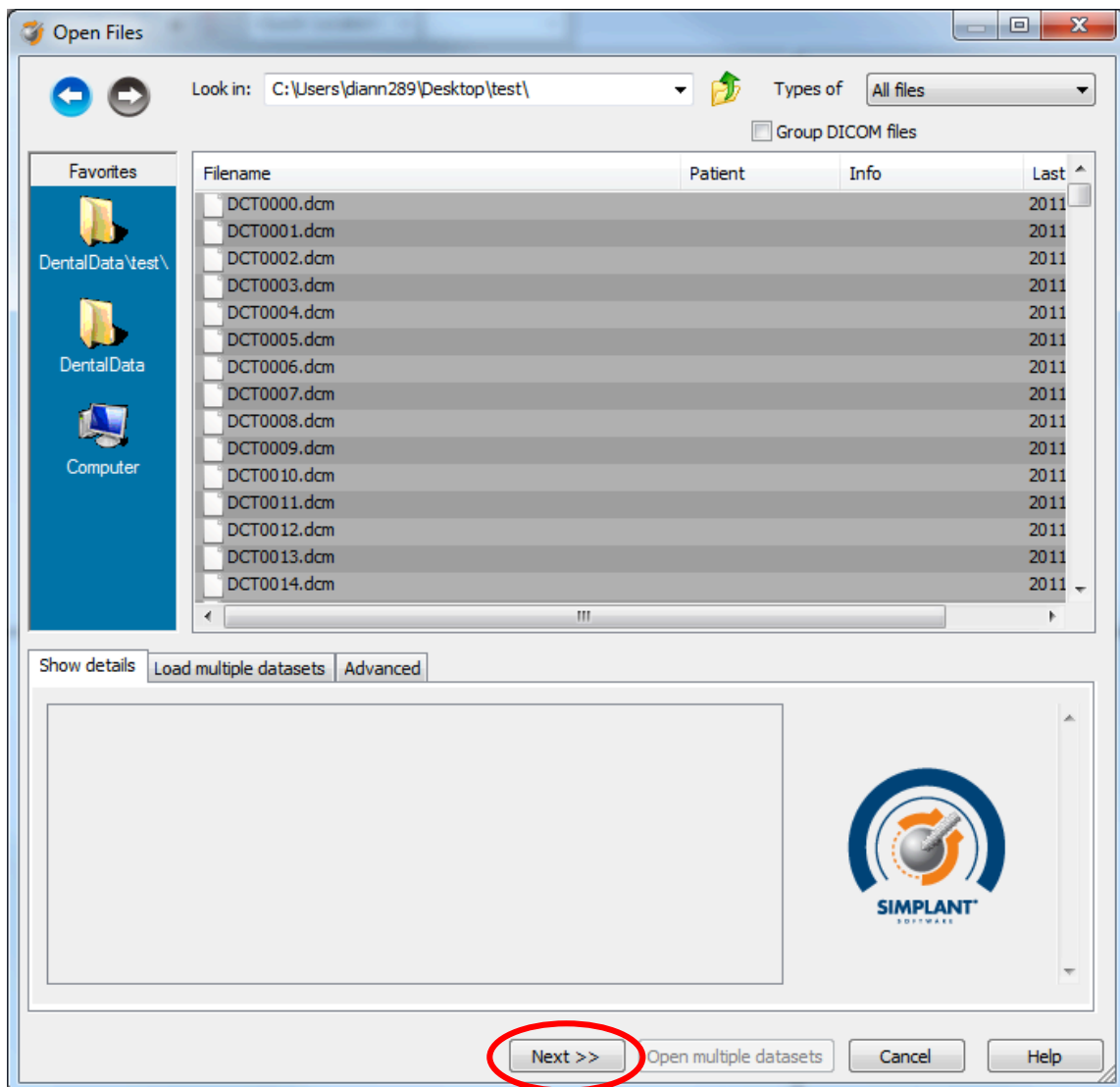4. Save the folder path.
5. Click Export.
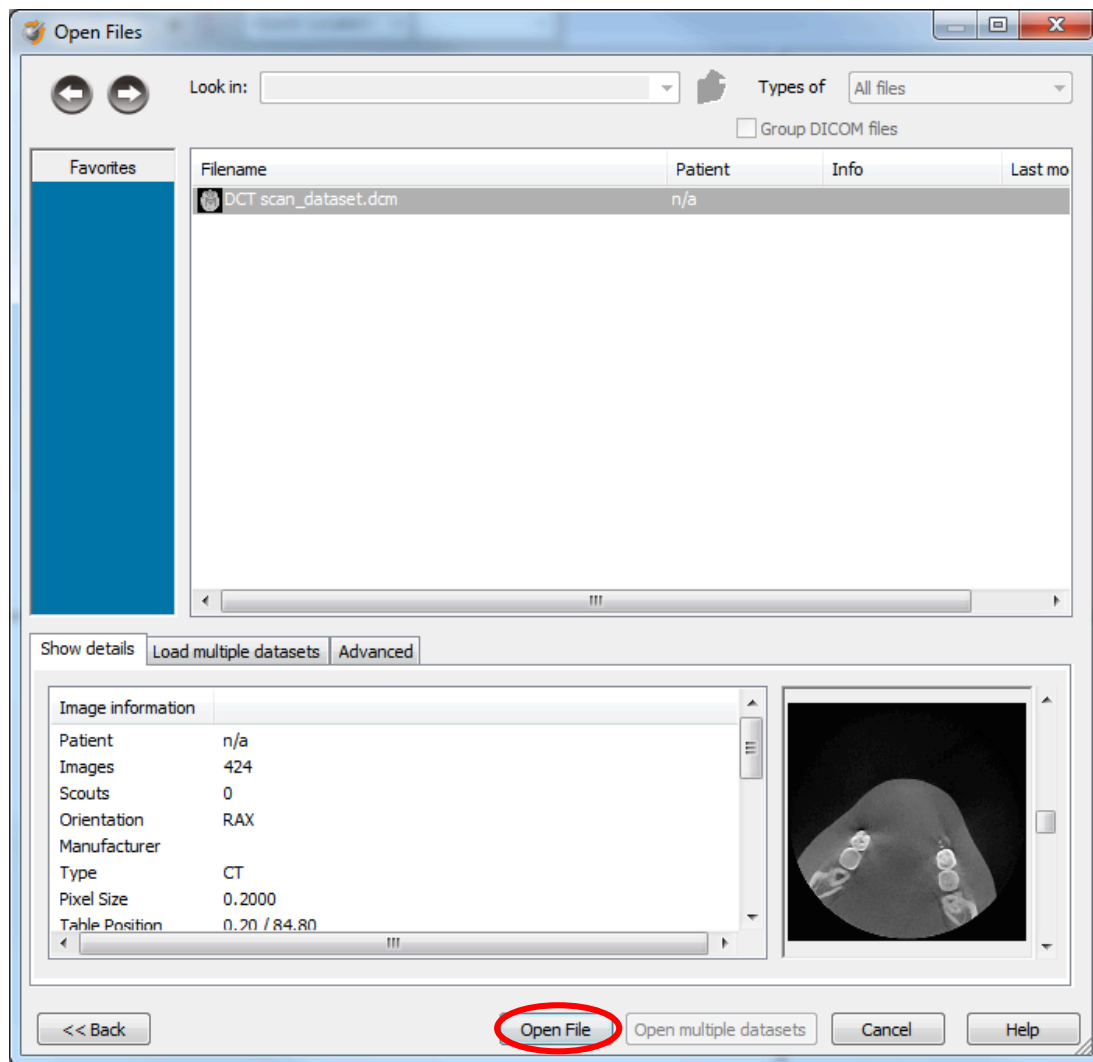
Part 2: Simplant® software

1. Open Simplant Pro and click 'Open Files' in the Task Panel.

2. In the 'Open Files' dialog box browse to the folder where you saved the dicom images and click 'Next'.
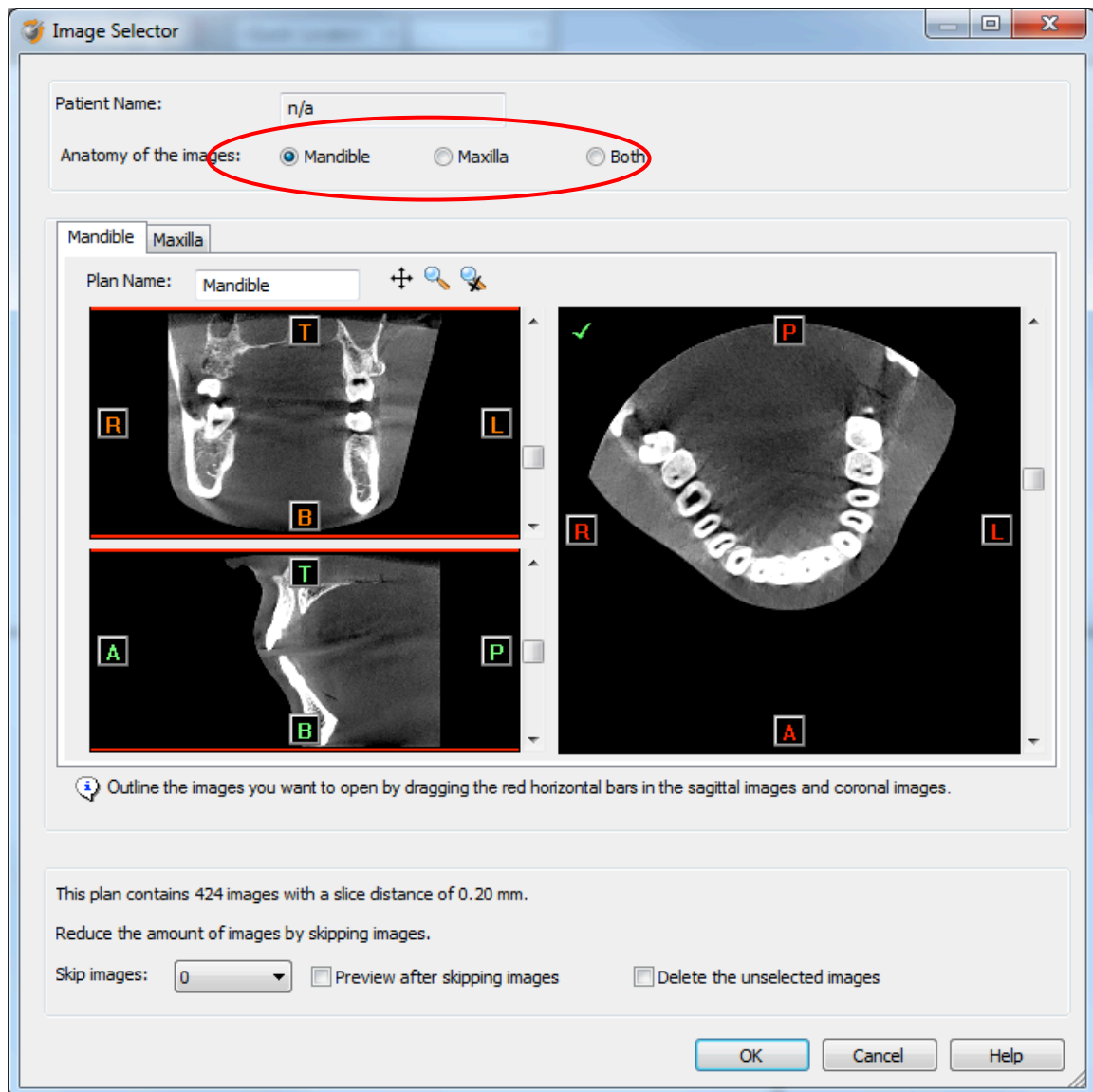
3. By clicking 'next', the data set becomes grouped. The image information and preview of the axial images can already be checked. Select the data set and click 'Open File'.
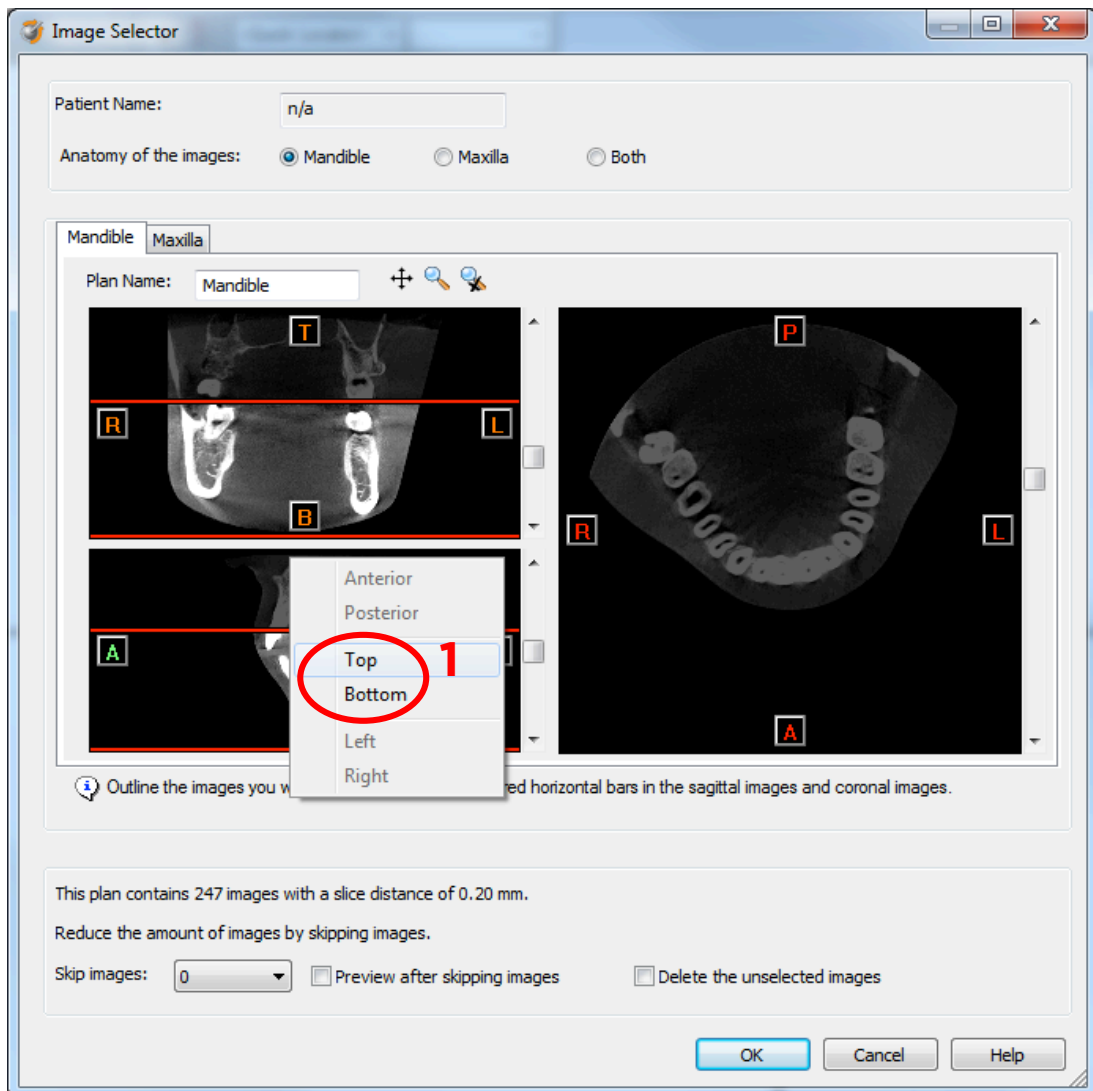

REMARK: Activating the checkbox 'Group dicom files' in the previous step will in the future automatically group your dicom files and show you the preview.
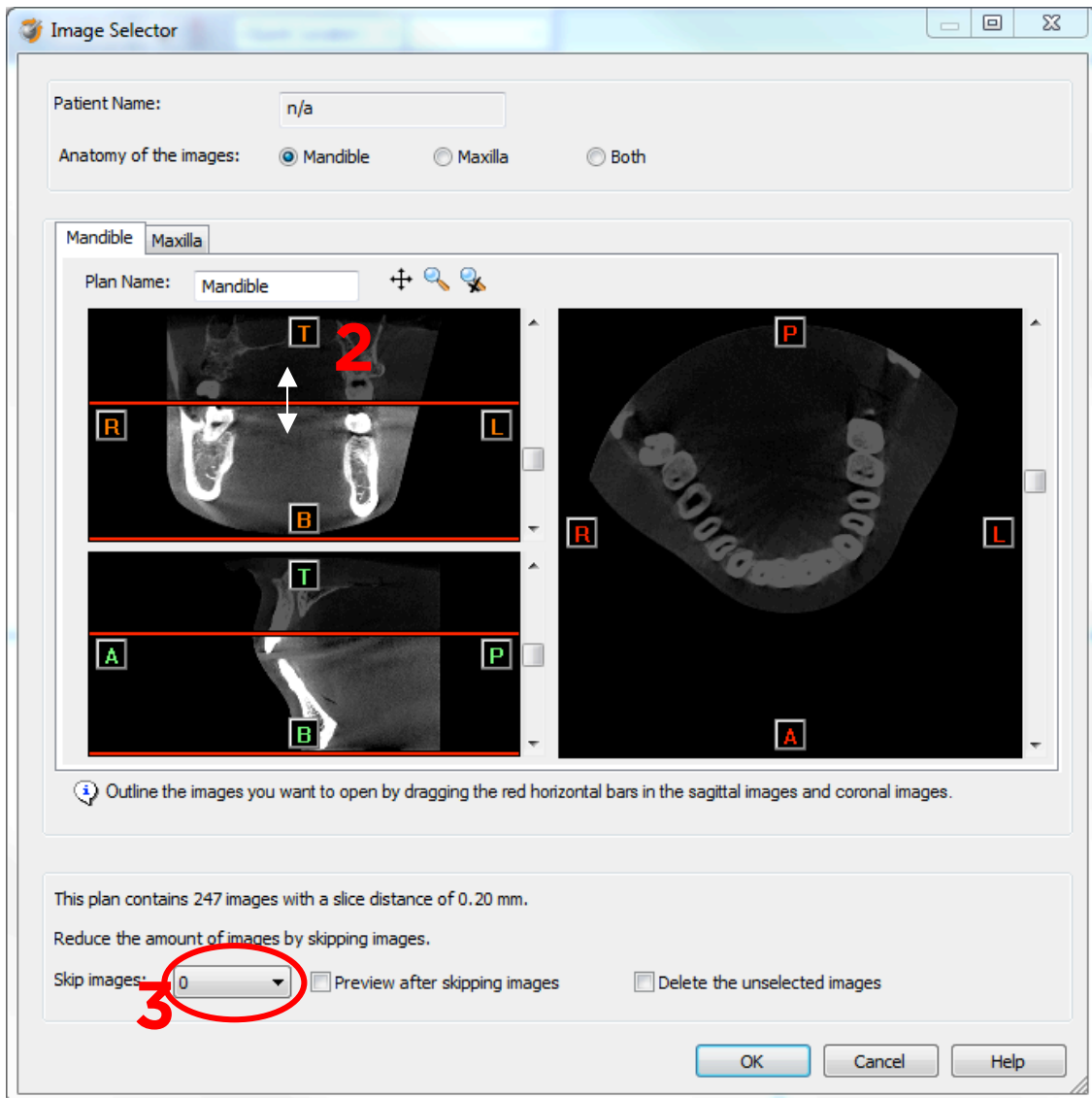
4. The Image Selector dialog is prompted to the user. In this dialog, the user selects the corresponding anatomy of the images, and selects the required images for importing.

If one or more orientation parameters were not exported, review if the orientation that was set is correct. The orientation can be adjusted by selecting the correct orientation parameter in the dropdown (1).

In order to reduce software load, you can REMOVE UNNECESSARY IMAGES from the start or the end of the frame set by dragging the red lines in the coronal and sagittal view.(2)

In order to further reduce software load, you can remove axial images by selecting the skipped image count different from 0 (for example: skip images = 1 selects every second image, skip images= 2 selects every 3rd image) (3).
We recommend not using the skip image functionality unless the dataset is really huge and slows down the Simplant application on your computer.
When ready, press OK and the software imports the selected frame set to Simplant.
5. You are now ready to start your planning.

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