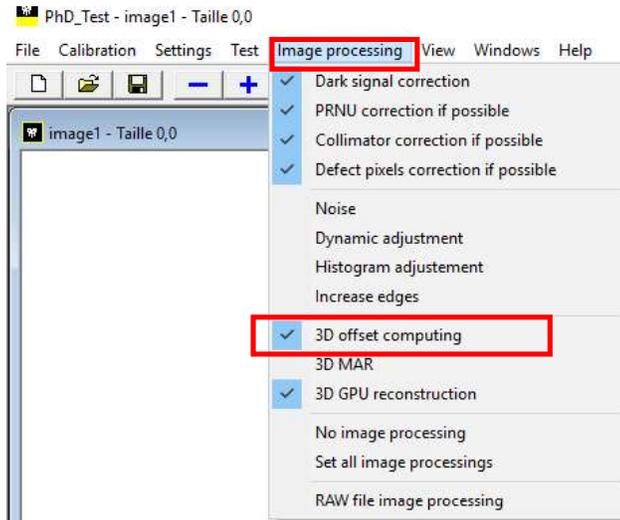


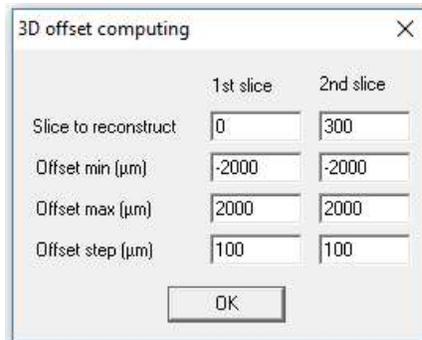
### 11.2.11. 3D Reconstruction adjustment

In order to adjust the 3D reconstruction and remove possible artefacts, it is necessary to use the software "Phd\_C\_Test" you can find in the directory C:\Program Files (x86)\OWANDY\PANORAMIC PHD\_C.

1. Once you start the software, select on the menu "Image processing" the modality "3D offset computing".



2. On the window that opens set the following parameters:



3. Insert support plate on the chin rest, and place the centering cylinder in the middle of the plate.

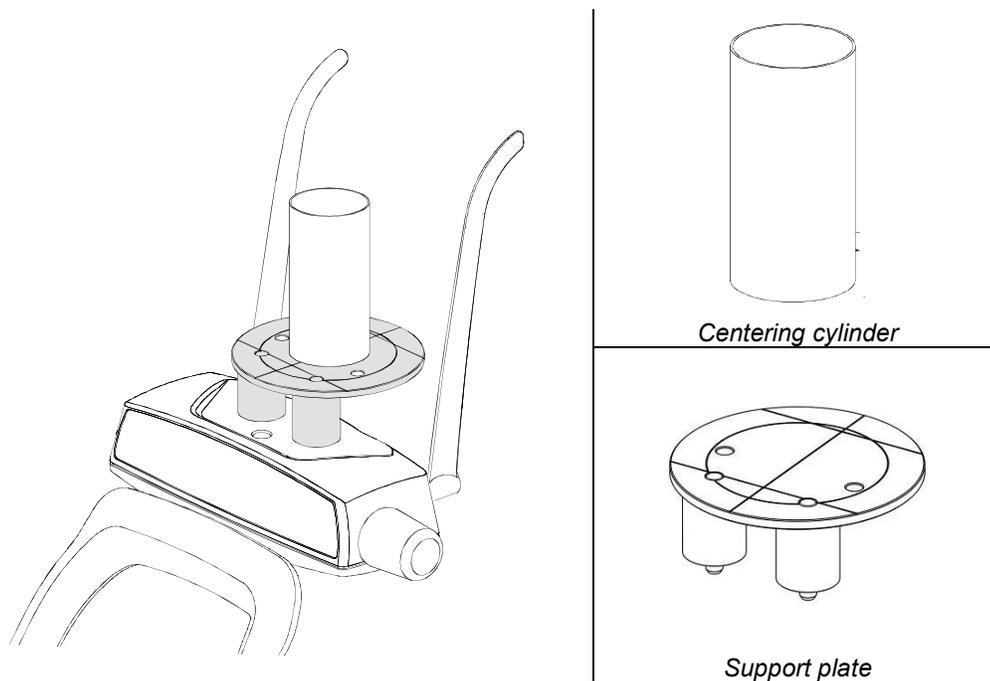
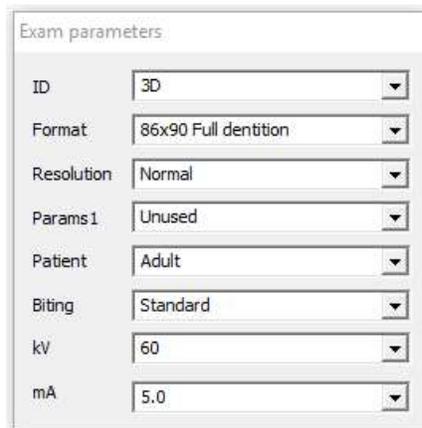


Figure 37: Support plate and centering cylinder positioning

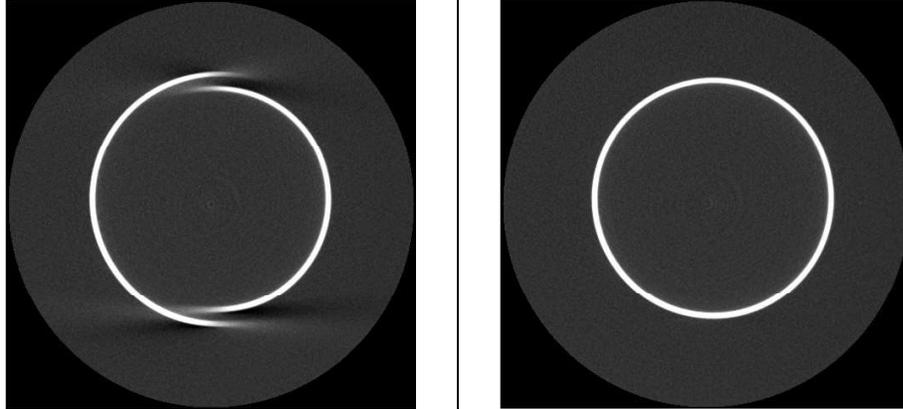
4. In "PhD\_C\_Test" program, from the "Exam parameters" window select the exam ID "3D" and the Format "86x90 Full dentition". Set the parameters to 60kV-5mA.



5. Press >0< button on the unit keyboard and wait until the chin rest support is positioned. Press >0< button again to complete the unit positioning.
6. Press the X-ray button to perform the acquisition.
7. Open the files located in C:\ProgramData\OWANDY\PANORAMIC PHD\_C\Centring with an image viewer: the name of these files contains two values: OFFSET\_HORIZONTAL\_Z and OFFSET\_HORIZONTAL\_UM.

- Among the files named OFFSET\_HORIZONTAL\_Z=000 look for the file in which the reconstructed circle is the most continuous (see right image) and write down the corresponding value OFFSET\_HORIZONTAL\_UM contained in the name of the file.

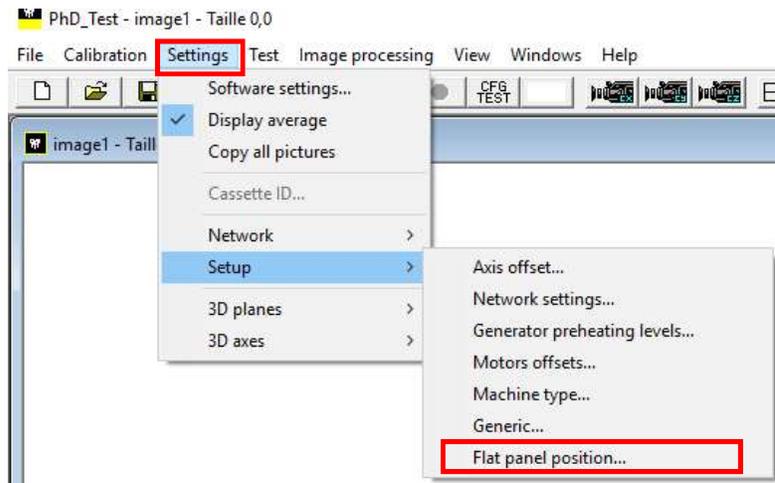
e.g.: OFFSET\_HORIZONTAL\_Z=000 - OFFSET\_HORIZONTAL\_UM=600.bmp



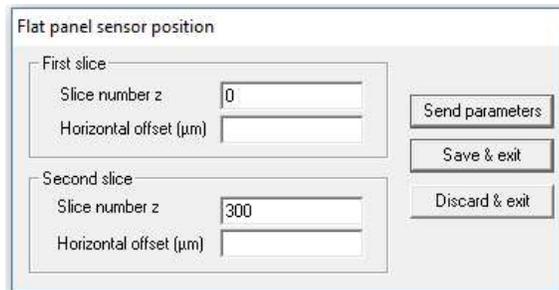
- Repeat the operation for the files named OFFSET\_HORIZONTAL\_Z=300 and take note of the OFFSET\_HORIZONTAL\_UM value.

e.g.: OFFSET\_HORIZONTAL\_Z=000 - OFFSET\_HORIZONTAL\_UM=800.bmp

- In "PhD\_C\_Test" program go to menu "Settings" and select "Flat panel position".



- In the panel "First slice" insert the values Slice number z = 0 and Horizontal offset ( $\mu\text{m}$ ) = HORIZONTAL\_OFFSET\_UM previously chosen for slice number 0. In the panel "Second slice" insert the values Slice number z = 300 and Horizontal offset ( $\mu\text{m}$ ) = HORIZONTAL\_OFFSET\_UM previously chosen for slice number 300.



- Click on "Send parameters".

- Click on "Save & exit".