

R100 Instructions

Taking in Pan both XV and I-Dixel:

Click on XV in OpenDental/Practice-Web to open correct patient.

Click on i-Dixel button and then click pan symbol to open twain interface

If ready light is blinking push ready to reset to ready position

Choose type of Pan

-Region-Panorama 8.1 seconds (Orthogonal Pan)

-Region-Partial if a partial pan is desired for scout or external BWs

-Region-Partial-block out all but R and L BW region. Select Orthogonal-Mode for BWs.

Position patient by aligning Frankfurt plane, sagittal plane and canine beam (distal half of canine). Have the patient hold handles and walk in towards column about 6-10 inches. Instruct the patient to swallow and push their tongue flat in the roof of their mouth. Push the ready button and walk to the exposure switch. This will put the unit into double ready mode so when the exposure switch is depressed one x-ray head movement is eliminated.

Take Pan with exposure button. Do not let off of the button until the music has stopped and the unit is done rotating.

Release patient and close head rest-push ready button in one of the three locations.

Click import on twain box in XV. The image will now be in both XV and i-Dixel.

3D Small FOV 40x40 and 80x40

Procedure from Pan or partial pan to the i-dixel software.

Under the Scout selection choose 40x40 or 80x40 with the icon to the far right in the scout tool set. Drag the green outlined box to the region of interest with the crosshair being the middle of the region of interest.

IF the box turns red you have gone outside of the area that the unit can scan with the middle point selected click set scout position and the cursor will change to a yellow 1 with a crosshair.

Click the middle button which sends the scout to the unit.

Push OK on the R100 screen to set the CT position. Reposition patient and do not change any laser light positions. Remember, horizontal laser is fixed and shows the middle of the FOV. Position occlusal plane parallel to this light.

Have patient hold still and expose CBCT.

Release patient. Close head rest. Push ready.

Say yes to reconstruction volume.

Large FOV scans

Open patient in i-dixel

Choose CT on the R100 screen.

Choose the appropriate sized FOV.

Determine whether the chin rest needs to be lowered to get higher into the sinus region

Have patient hold still and expose CBCT

Release patient. Close head rest. Push Ready.

Say yes to reconstruction volume.

If a patient has high shoulders a rotation test can be done by turning off the exposure. Push exp. On the lower left of the R100 screen and choose no x-ray. After checking clearance with rotation turn the exposure back to A.

TMJ – 2D Scan

Open Patient in i-Dixel

On touch screen of Pan select region and click on TMJ which is the symbol to the far right

Use TMJ lip rest and position patient for the first shot which is closed. Push ready if blinking. Take the first exposure.

Position patient for the second exposure and have them open. Push ready if blinking. Take the second exposure which is Open.

Release patient and close head rest. Push the ready button.

TMJ - 3D scan

Open Patient in i-Dixel and choose CT on touch panel

Choose TMJ on panel for region selection

Select CT - TMJ mode - 40X40 or 40X80 FOV

Use lowest chinrest position and TMJ mouthpiece

Using front circle use horizontal line to bisect the top of the tragus. Use the vertical line to bisect that line at the tragus.

Align intersection of horizontal and vertical lines to top of tragus on side to be examined (use front directional pad on lift arm to do this).

Align other vertical laser light to outside edge of eye socket on side to be examined (use left and right directional pad on control closest to column)

Use the back circle to position the other vertical line on the outside edge of the eye that is on the side to be examined.

Take exam