



ImageWorks

Generations of Imaging

Panoura 18S
Panoramic X-Ray with Ceph Operation Training
Quick Guide

Summary

These instructions serve as supplemental guidance on the Panoura 18S. They are not meant to replace the installation manual, but rather serve to complement it.

If there are any questions, please do not hesitate to contact us

914-592-6100



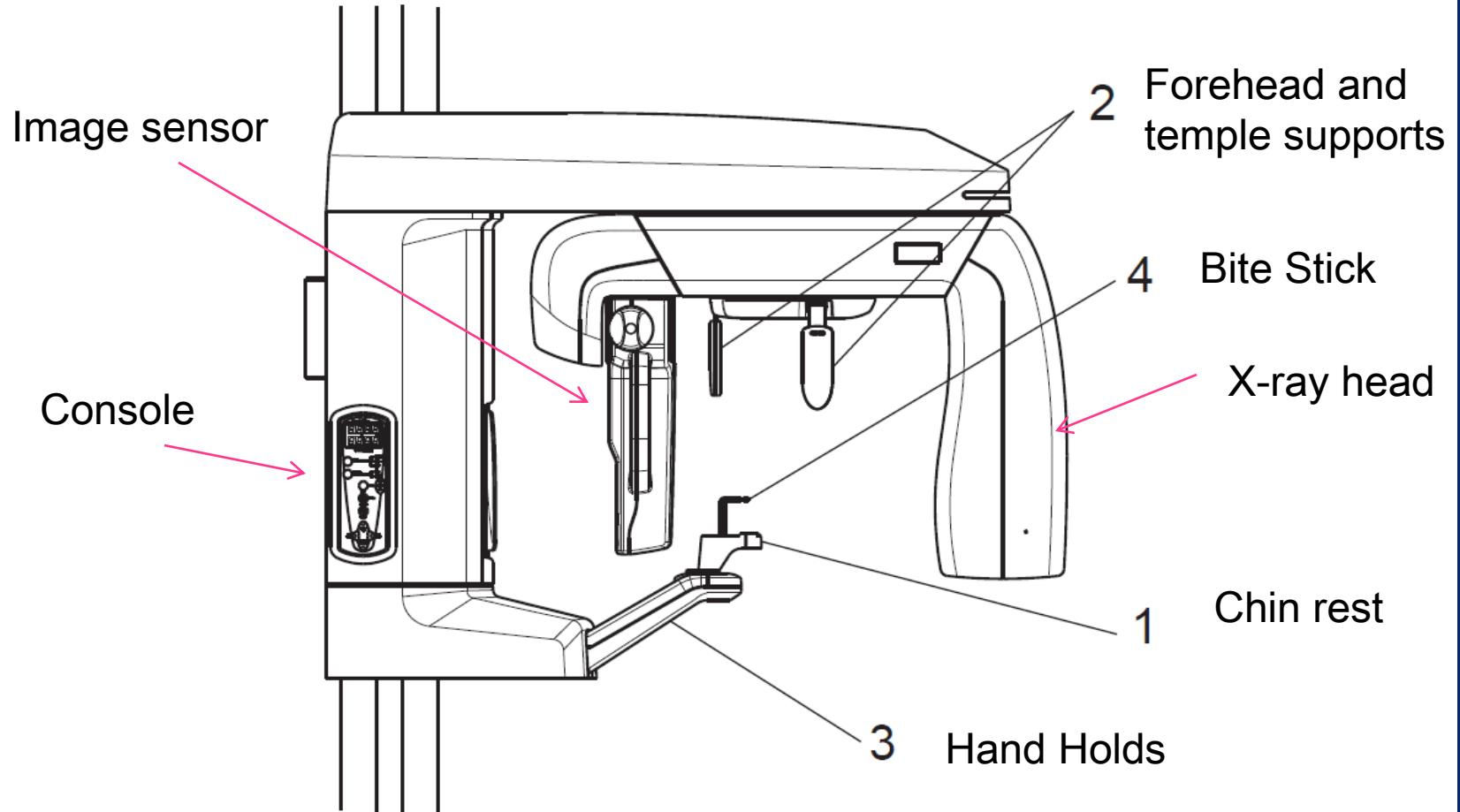
ImageWorks

Generations of Imaging

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1. Unit Overview



1. Unit Overview

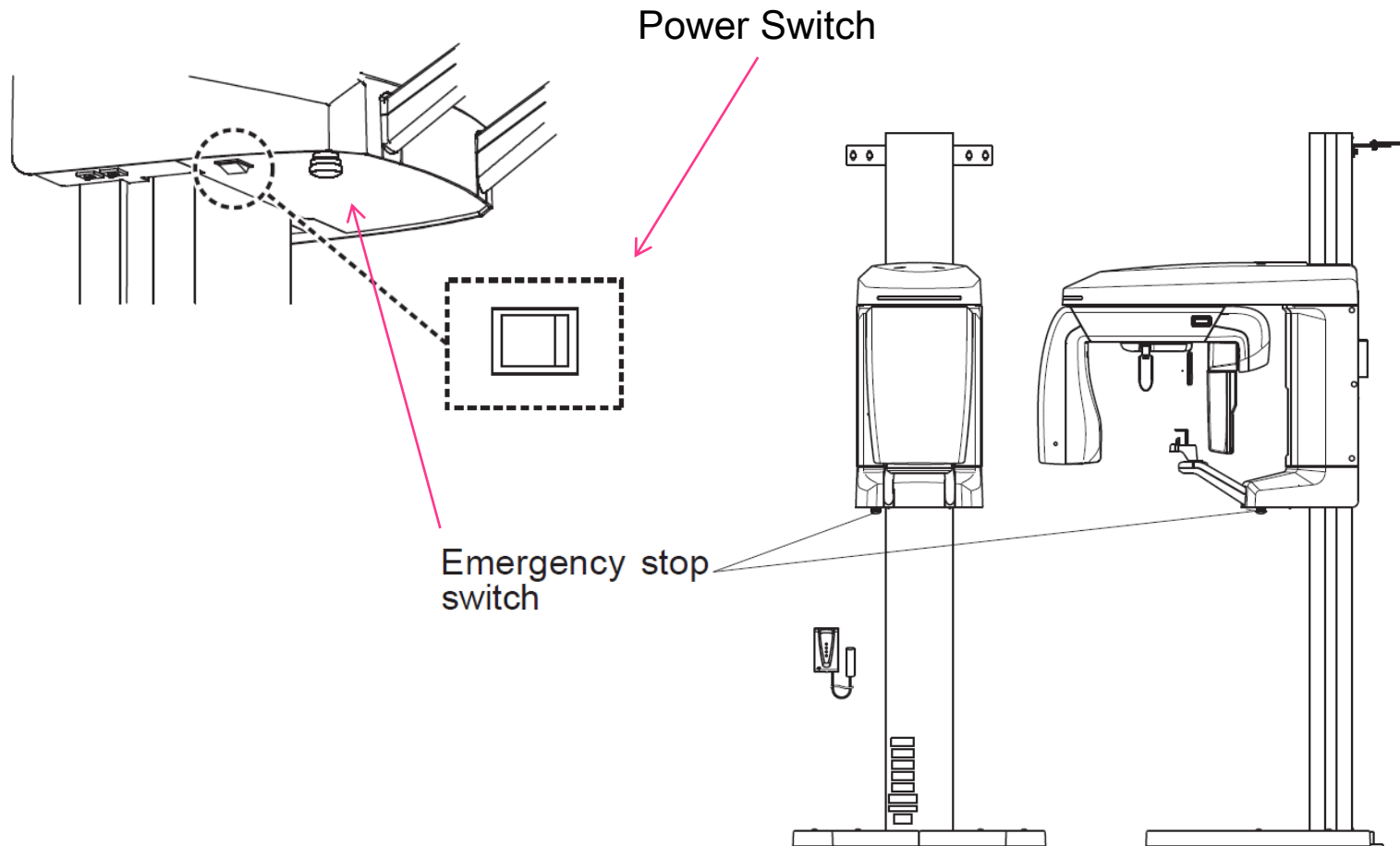
Console



Handswitch



2. Power Switch



3. Pan - Prep Unit for Patient

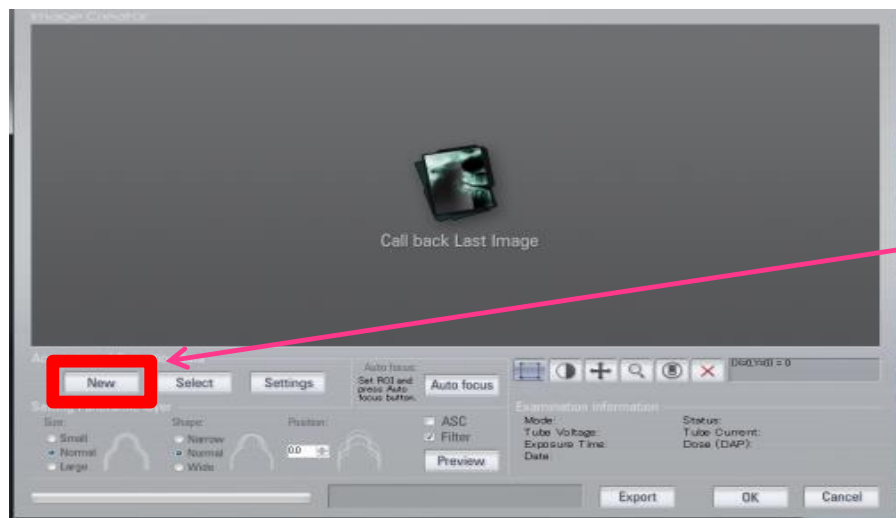
Before bringing patient to machine...

Confirm that unit is in Pan mode and sensor is in pan position.

In imaging software, make sure you are ready to acquire a panoramic x-ray with the correct device selected.

Initiate image acquisition process in imaging software.

Dialogue box appears.



Click on the “NEW” button to capture a new X-Ray scan.

3. Pan - Prep Unit for Patient

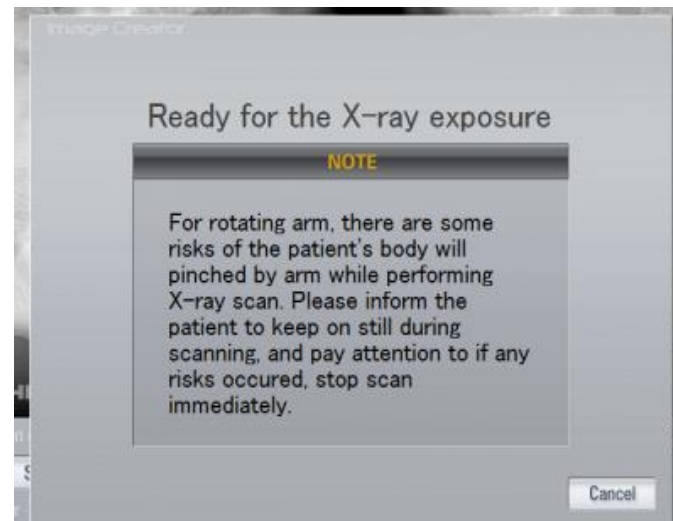
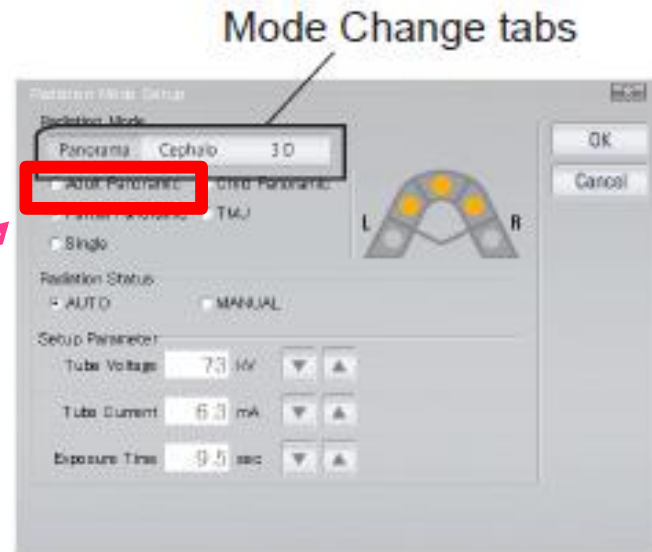
Ensure that the “Radiation Mode Setup” dialog shown below is displayed.

Click on “Panorama” Tab.

Click on Auto Panoramic.

Press Ok.

Ready for exposure screen will appear.



3. Pan - Prep Unit for Patient

Open the head supports before the patient enters the machine

Move head rest to an approximate position of patient height by pressing Up/Down switch on the console.

Have patient step into machine and rest chin on chinrest.

Recommend patient cross arms and hold stabilizing bars. This drops the shoulders.

Have patient step both feet forward about a foot from the post (holding on to stabilizing bars for support).

Bite bitestick with upper and lower teeth in grooves (place sleeve over bitestick).

4. Pan - Patient Positioning

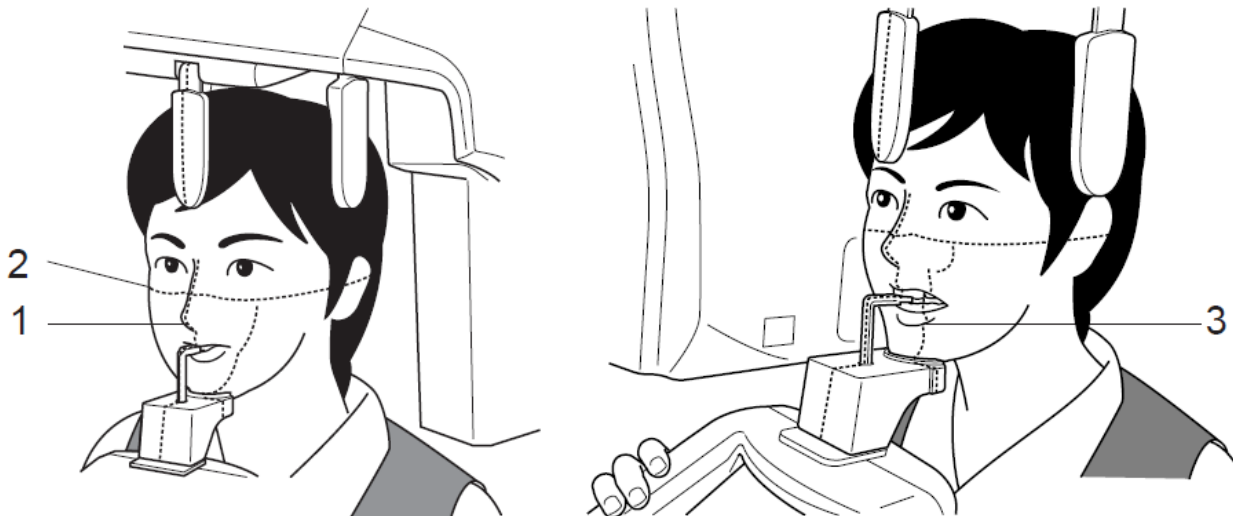
Have the patient remove jewelry, eyeglasses, etc and place the apron on the patient.

Press Beam button. Unit will reposition and laser lights will come on.

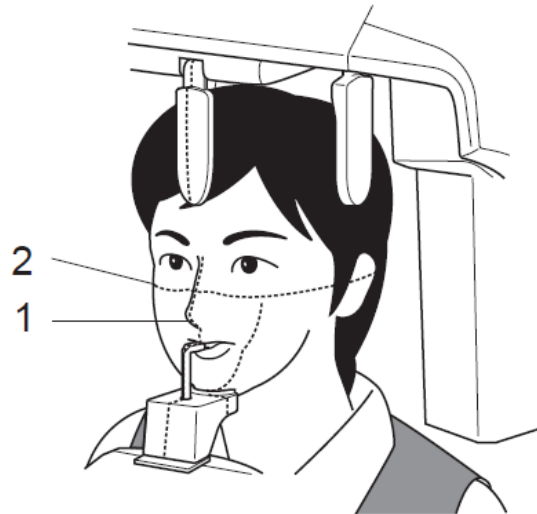
Close head supports around patient's head

Utilize the mirror to position the patient. There are 3 beams that must be aligned:

- 1) Medial/midsagittal ;
- 2) Frankfurt plane/Oculoauricular;
- 3) Anteroposterior Plan/Canine tooth.

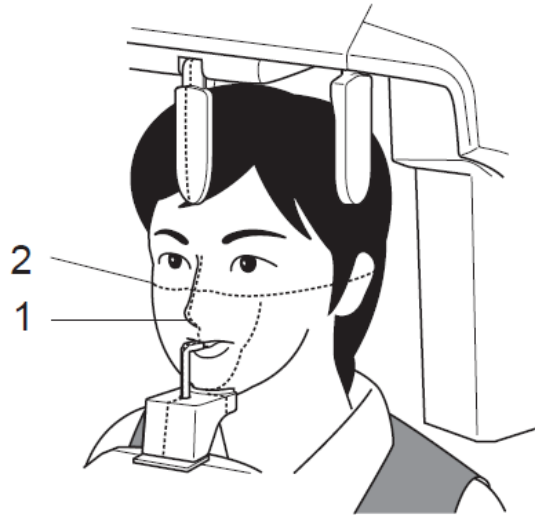


4. Pan - Patient Positioning



1. Medial/midsagittal line should run through the middle point between the left and right incisors and the nose ridge

4. Pan - Patient Positioning

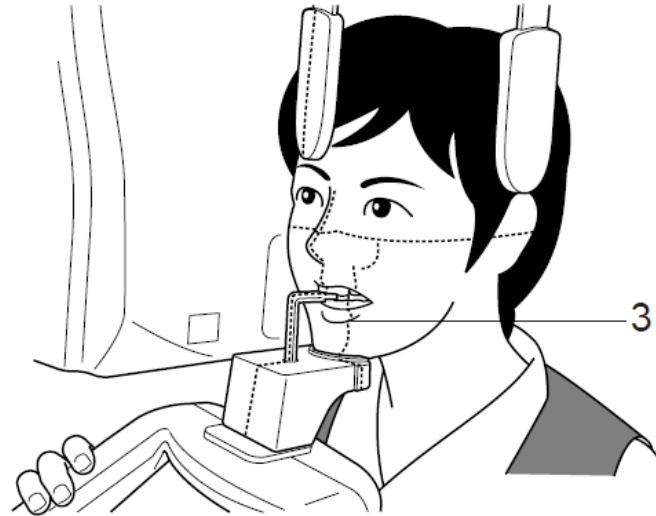


2. Frankfurt plane should run from base of eye orbitals to lower portion of ear opening.

If chin too high – flat occlusal plane. Pan will look like a frown

If chin too low – pan will look like smile

4. Pan - Patient Positioning



3) Anteroposterior Plan/Canine tooth line should align with mandibular third tooth (patient's left canine tooth).

To assist in showing the tooth, patient can be asked to smile. However, have patient close lips before scan.

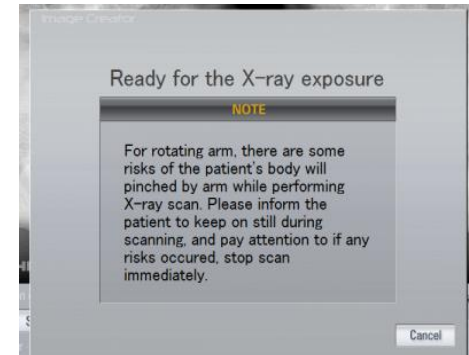
5. Pan - Initiate Scan

Press RESET on the console

Turn beams off (if still on, BEAM button can be pressed)

Confirm ready for exposure screen still appears.

If possible the operator should stand where they can observe both the patient in the machine and the computer screen.



Note:

Unit will not scan when laser beams are on. Either wait until beam go off or press BEAM button to turn them off.

5. Pan - Initiate Scan

Confirm Ready LED is solid green
(not blinking)

Instruct the patient to swallow, place
the tongue on the roof of the mouth,
and hold still.

Press and hold switch during entirety
of scan.



Note:

If switch is released before exposure is complete, an ER08 warning is displayed.

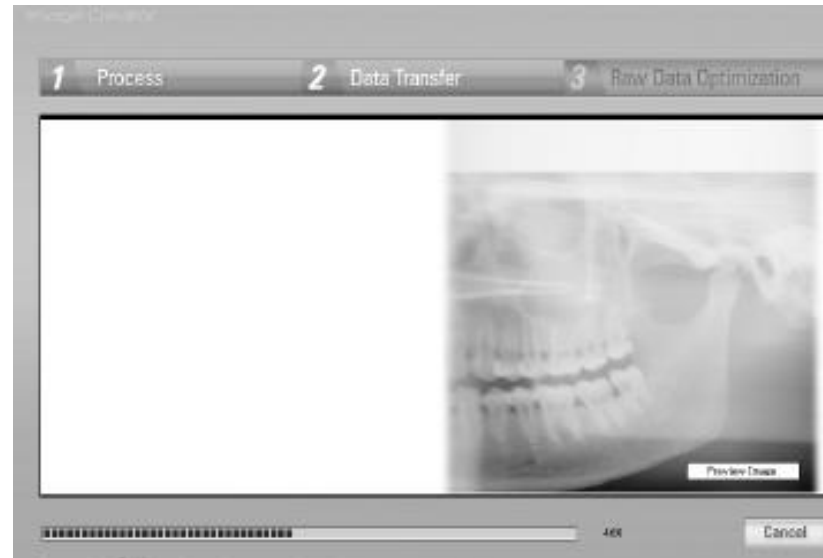
These error codes can be cleared by pressing RESET on panel.

5. Pan - Initiate Scan

As scan is taken, preview screen will appear.

When preview screen shows completed image, system will process and construct the image.

During this time, patient can step out of machine.



5. Pan - Initiate Scan

Acquired image appears in window.

Click OK to transfer the image to the imaging software where it is permanently saved.



6. Ceph - Prep Unit for Patient

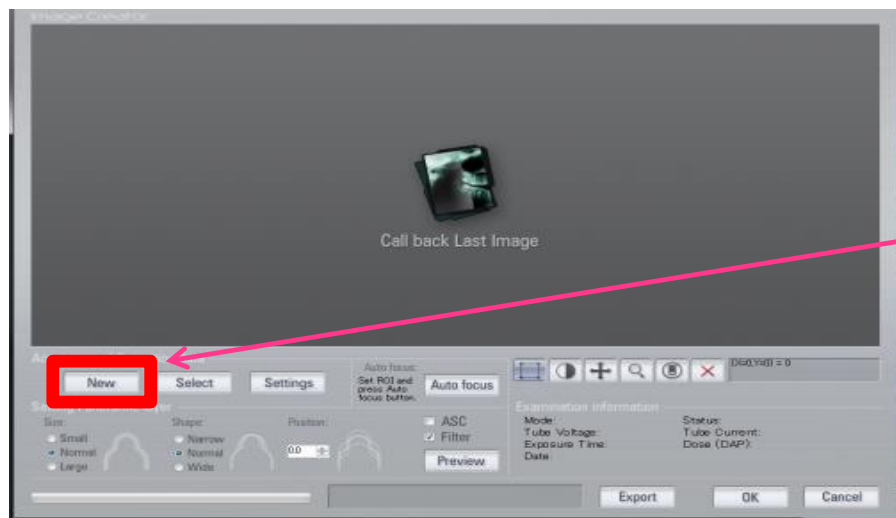
Before bringing patient to machine...

Confirm that unit is in Ceph mode and sensor is in ceph position.

In imaging software, make sure you are ready to acquire a ceph x-ray with the correct device selected.

Initiate image acquisition process in imaging software.

Dialogue box appears.



Then click on the “NEW” button to capture a new X-Ray scan.

6. Ceph - Prep Unit for Patient

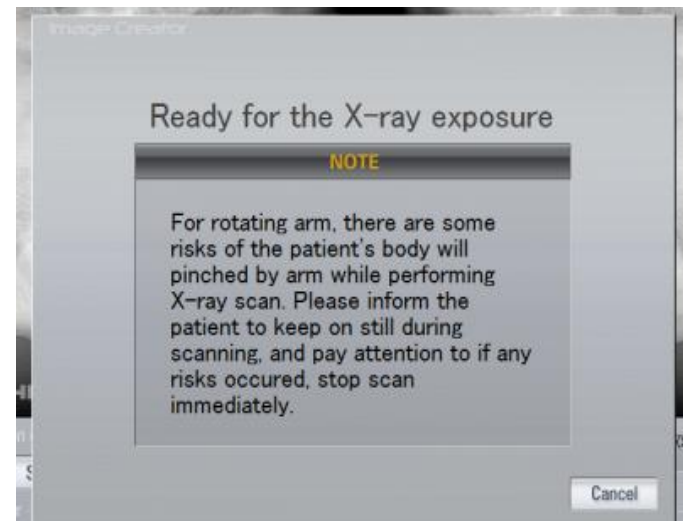
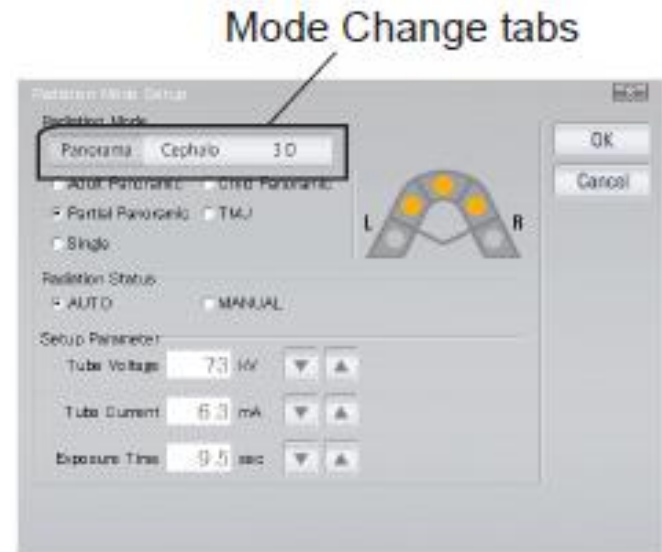
Ensure that the “Radiation Mode Setup” dialog shown below is displayed.

Click on (or verify set to) “Cephalo” Tab.

Click on desired sub mode (LA or PA).

Press Ok.

Ready for exposure screen will appear.



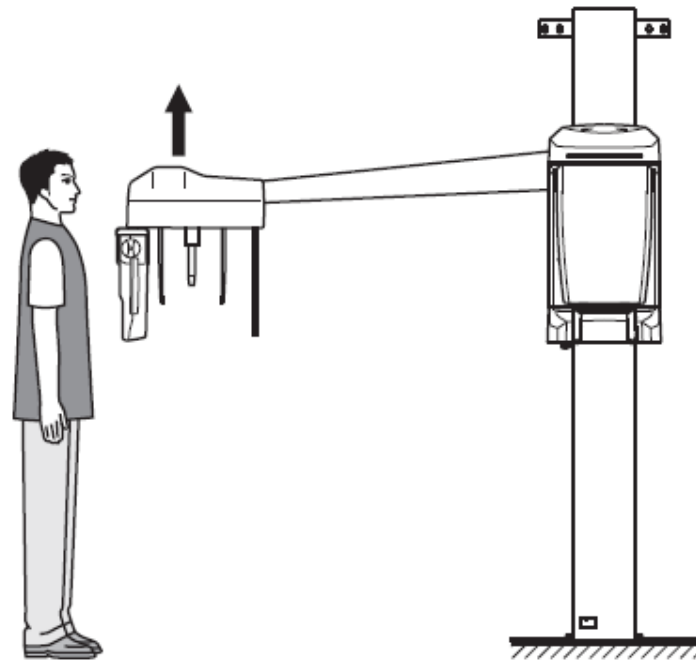
6. Ceph - Prep Unit for Patient

Move the ear rod to an approximate position of patient height by pressing Up/Down switch on the console.

Rotate head piece depending on PA or LA.

Ear rods should match the heights of the patient's ear canal (porus acusticus).

Spread the ear rods.



7. Ceph - Patient Positioning

Have the patient remove jewelry, glasses, etc. and place the apron on the patient.

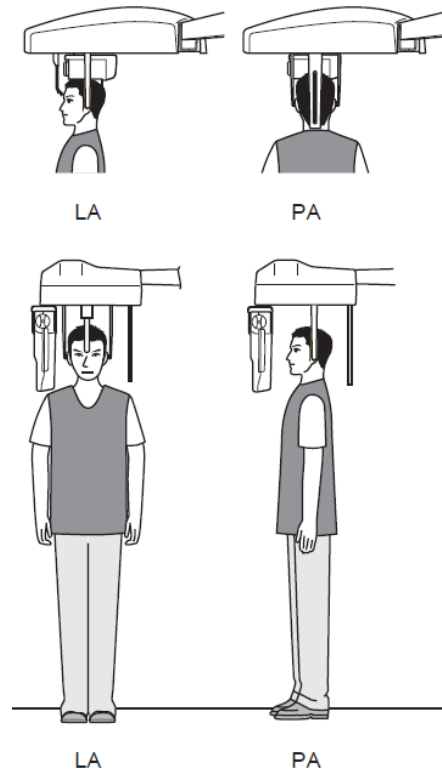
If taking posteroanterior (PA), remove nose support.

Insert ear rod on one side and close the ear rod.

Gently insert the ear rod on the other side.

Make sure the patient's Frankfurt plane is positioned horizontally.

If taking lateral (LA), then adjust the height of the nose support at the center between the patient's eyebrows and gently place it to fix.



7. Ceph - Initiate Scan

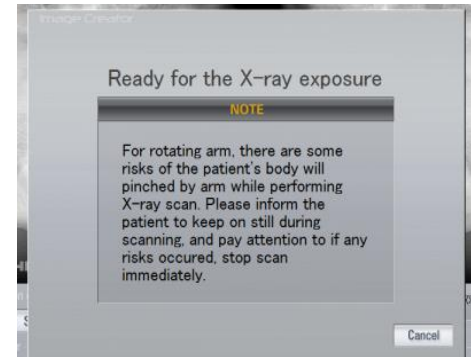
Press RESET on the console

Confirm ready for exposure screen still appears.

If possible the operator should stand where they can observe both the patient in the machine and the computer screen.

Note:

Unit will not scan when laser beams are on. Either wait until beam go off or press BEAM button to turn them off.



8. Ceph - Initiate Scan

Confirm Ready LED is solid green (not blinking)

Instruct the patient to swallow, place the tongue on the roof of the mouth, and hold still.

Press and hold switch during entirety of scan.



Note:

If switch is released before exposure is complete, an ER08 warning is displayed.

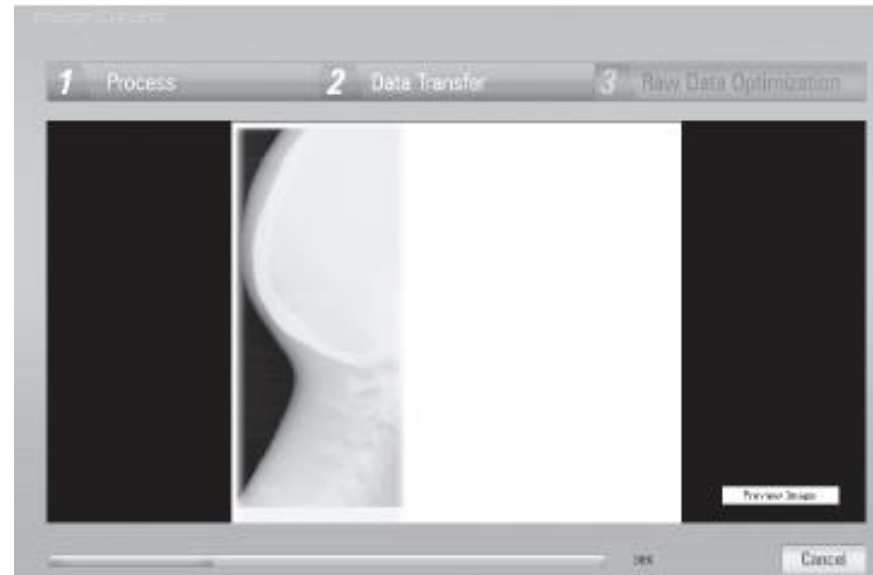
These error codes can be cleared by pressing RESET on panel.

8. Ceph - Initiate Scan

As scan is taken, preview screen will appear.

When preview screen shows completed image, system will process and construct the image.

During this time, patient can step out of machine.



8. Ceph - Initiate Scan

Acquired image appears in window.

Open the ear rods and guide the patient out of the machine.

Click OK to transfer the image to the imaging software.



Note:

Default setting displays head facing to the right.

9. Changing Mode

To change machine from Pan to Ceph or from Ceph to Pan, the sensor must be physically moved, and the unit switched to the new mode.

Warning: Sensor system is very robust and the fastening system has multiple support levels to assure it is secure. However, the sensor can be damaged if dropped, so please use care in moving the sensor.

Hold sensor by handle

Turn knob to “Unlock” position

Pull sensor off of rails

Move sensor to new position, and slide onto rails

Turn knob to lock into position

9. Changing Mode

Press MODE on console.



Toggle to the desired mode (Pan, Ceph LA, Ceph PA).

Press RESET.



Sensor will turn on and system is ready to use in the new mode.

Summary

**These instructions serve as supplemental guidance of the Panoura.
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complement it.**

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