

Essential points for X-ray technicians

Planmeca USA

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Procedures for taking a ProMax Panoramic Exposure

- Set up computer to acquire image in the software.
 - *Be sure to verify the patient present is the same as the patient showing on the computer screen.*
- Select appropriate settings on GUI.
 1. kV
 2. mA
 3. Select Appropriate Program
 - Standard, Orthogonality, Bitewing
 4. Adult or Child
 5. Jaw Selection
 6. Segmenting

Select

kV				mA			
54	56	58	60	1	2	3	4
62	64	66	68	5	6	7	8
70	72	74	76	9	10	11	12
78	80	82	84	13	14	15	16

64/4.0	64/8.0	66/9.0	68/12.0	70/14.0
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i
Cancel
OK

Select program type - Pan

	standard
P2000	improved orthogonality
P3000	improved interproximality
P4000	bitewing

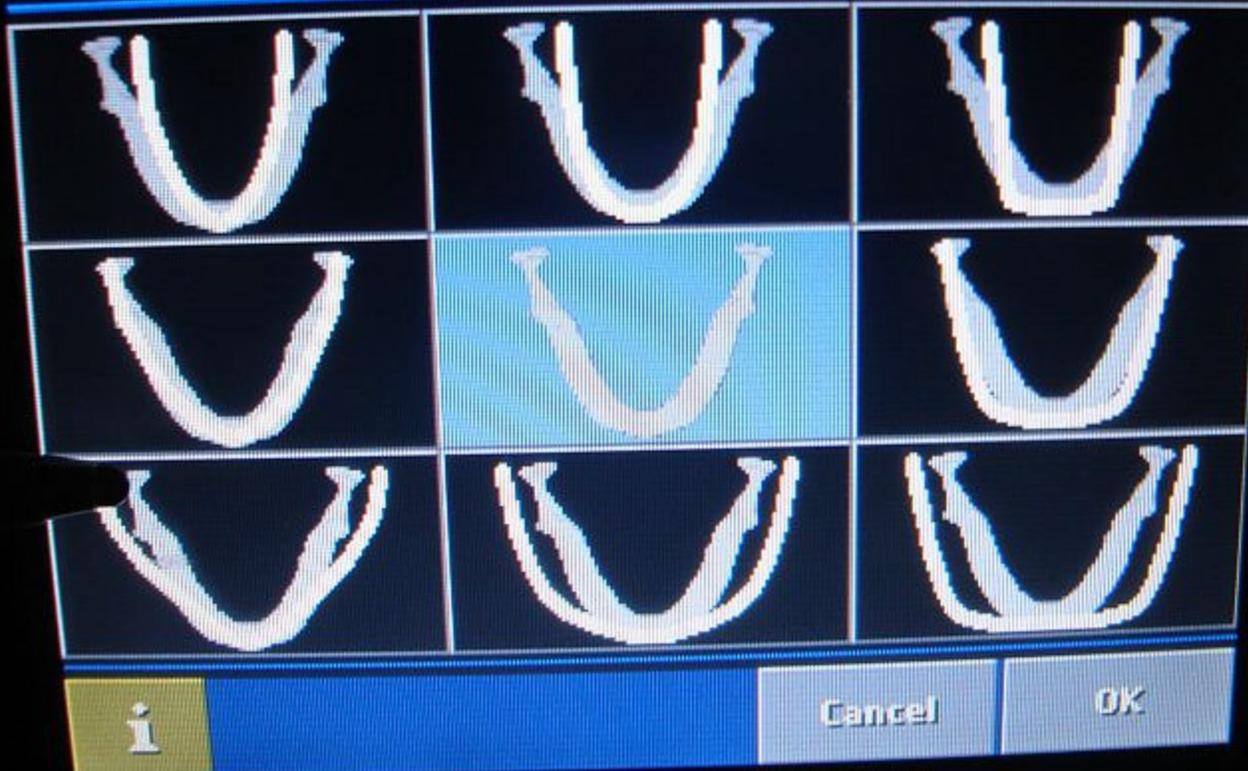


Cancel

Jaw Selection tip

- Select appropriate jaw size of patient if outside the average dimensions.
 - Ask yourself if you had to take an impression on this patient would you have to get an exceptionally large or small tray?*
- Adjust accordingly.
 - Most patients will fit within the normal and average dimensions.*

Select jaw shape & size



68 kV 13 mA OFF DEC 16^s

Prog. P1000 Pan standard

Patient size Adult

Segment 1 2 3 4 5

Jaw Normal+Average



4:06

Go Entry 1

Go Entry 2

Ready

Patient Positioning - Page 1

- Adjust height of machine to approximate patient height.
- Ask Patient to step into machine.
- Have patient stand as tall as possible.
- Bring unit to patient's correct chin level.
- Have patient hold handles if desired. (*I prefer Military At-Ease position.*)
- Manually align center of face (*not the nose*) with the Mid-Sagittal light.
 - *Definition: Sagittal plane any vertical plane or section parallel to the median plane of the body which divides a body into right and left portions.*

Patient Positioning - Page 2

- Close temple supports – *If patients head moves when supports close, OPEN and realign.*
- Patients head will not be moved if properly centered.
- Using the wheel, align Frankfort plane light to the orbital rim below the eye to the tragus of the ear.

Definition: A horizontal plane represented in profile by a line between the lowest point on the margin of the orbit to the highest point on the margin of the auditory meatus.

- To adjust the patient, use the up-down button on the machine while gently holding the back of the patients neck until the light is properly aligned.

Patient Positioning - Page 3

- Move to to the side of the patient in order to adjust the focal trough light.
- Using the wheel, Align the light with the apices of the central incisors.
 - Landmarks are the distal of #10 or the mesial of #11. In edentulous patients, use the inferior border of the ala of the nose.*
 - Millimeter reading on the display is usually between 1 and -1.*
- Touch READY on GUI.
- Watch for computer to say “Waiting for exposure”

Instruct patient as follows:

- Close your lips.
- Swallow.
- Put your tongue on the roof of your mouth and hold it there.
- Take a deep breath.
- Close your eyes.
- Try not to move.
- The machine will rotate around your head for 16 seconds. Once the exposure is complete, the tone will stop.
- The x-ray will release you when it is ok for you to move.

Final Steps

- Hold exposure button in until all sound emitted has stopped.
- Guide Patient safely out of the x-ray.
- Select Done on Computer screen to view the image.

Planmeca ProMax Maintenance

- Do not spray any chemicals directly onto the x-ray equipment.
- To clean, use pre-moistened disinfecting wipes, or spray a paper towel with non-alcohol based cleaner and then wipe the unit off.
- Temple supports and bite sticks can be autoclaved or protected with a plastic barrier.

Operator Safety

Excess exposure to radiation can be harmful.

Technician should limit exposure at all times.

- X-ray Technician should always leave the room during an x-ray exposure.
- X-Ray Technician should be a minimum of 6 feet away from the x-ray during exposure if there are no walls present, at least 90 degrees from angle of beam of radiation.
- X-ray technician should never stay within radiation range during the exposure.

Operator Safety

- X-ray technician should wear a radiation badge if available.
- X-ray technician should report any x-ray failures or error codes to the head of the department immediately.
- Stop using any equipment that is failing, overheating or showing error codes immediately and contact qualified repair personnel.
- Follow all instructions listed in the product user manual.