



Urology Operating Instructions (DP-6600 Scanner)

1. Connect the Rectal probe to any probe port
2. Turn ON scanner
3. Press EXAM key and select ABDO for Abdominal probe or GYNE for Endo probe.

A. Prostate measurement

1. Press "Measure" button to get measure menu on the top right hand corner of the screen. (Measure button toggles between B Mode and Measure menus). if no menu, press "Menu" button first.
2. Using the track ball, select "Others" menu. Select "B-URO MEAS" by pressing "SET" button. 'B-Uro Measure' menu now appears on screen.
3. You can key in the patient's PSA by selecting "Key in" on this menu and pressing "SET".
4. Next, select "Prostate Volume" on this menu and press "SET" button to enter prostate volume measurement mode.
5. Scan in the sagittal mode. If the patient is in the left lateral position, the sagittal scan plane is the one parallel to the patient bed and is also used for biopsy. In the sagittal mode, find the mid-sagittal scan of the prostate from bladder neck to prostate Apex. Freeze the image and measure from bladder neck to apex which is the "Length" of the prostate. Press "SET" after each measurement. Also on this frozen mid-sagittal image, measure the widest part of the prostate at the base and at 90 degrees perpendicular to the previous length measurement. (anterior – posterior or height of gland)
6. Now unfreeze the image, rotate the probe 90 degrees and scan in the transverse mode and measure the widest cross section of prostate on screen.('width' of gland) Freeze the image and move cursor to one side of prostate, press "set", move cursor to other side and press "set". After this 3rd and final measurement, the software calculates prostate volume by the following formula: $V_{cc} = W \times L \times H \times 0.523$ (The software also calculates "Predicted PSAD" which is Prostate Volume x 0.12) and its displayed on screen.
7. If video printer is connected, press "Print" button to obtain a hardcopy. Then press "Freeze" to unfreeze the image.

B. Display Needle Guide

1. Press "Measure" button to get B-mode menu on screen. If no menu is on screen, press "Menu" button first.
2. Using the track ball select "Needle Guide" and press "SET" button. Then select "OK" button then press "SET" again. The prostate biopsy needle guide appears on right hand side of screen. Press "EXIT" to turn off guide line.
3. Remember to TURN OFF the scanner to remove the probe. Probe may be cleaned in soapy water and soaked in Cidex OPA (J & J).