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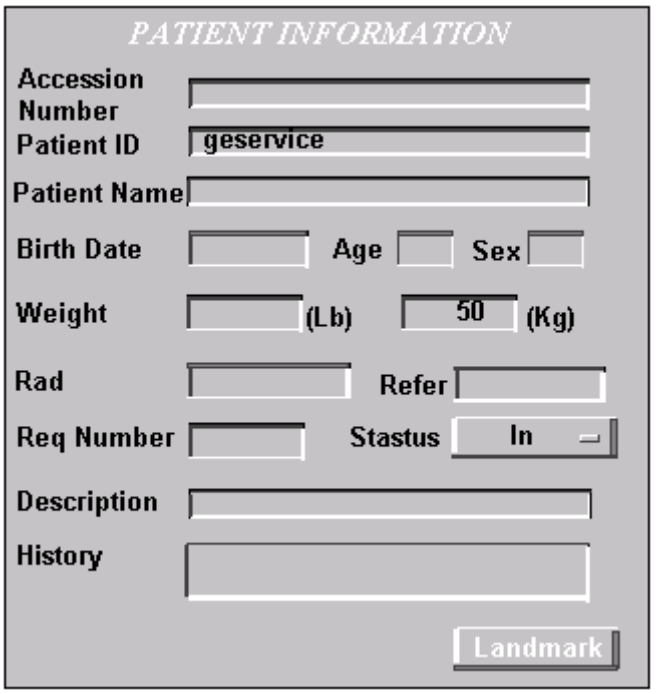
1. Scan Parameter Setting

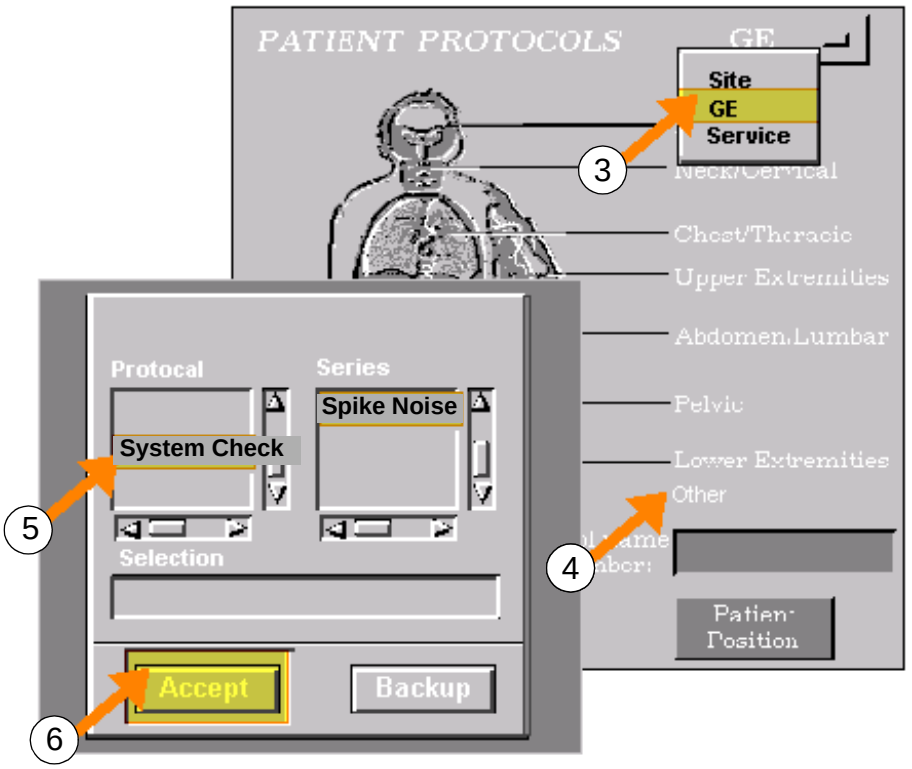
1. Click **[New Pt]**.
2. Input the following data in "patient information".
   - •Patient Data: geservice
   - •Weight: 50(Kg)



PATIENT INFORMATION
ILLUSTRATION 1

1. Scan Parameter Setting(continued)

3. Choose GE.
4. Click **Other**. Protocol window comes Up.
5. Select **[Sysetm Check Head]** from protocol.
   Select **[Spike Noise]** from series.
6. Select **[Accept]**.)



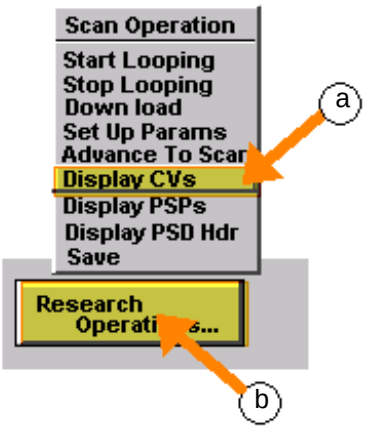
PATIENT INFORMATION
ILLUSTRATION 2

7. Select Save Series.

SAVE SERIES
ILLUSTRATION 3

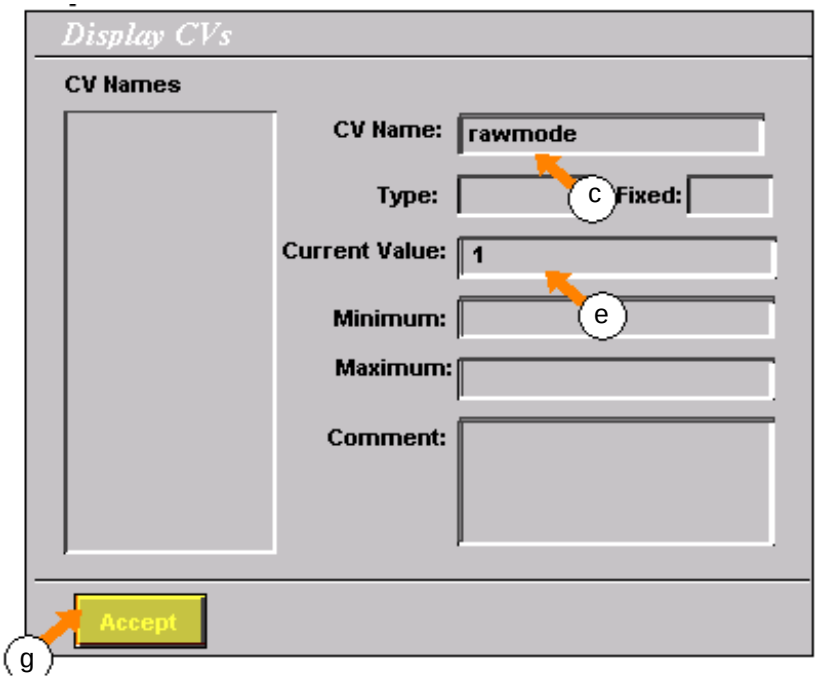
1. Scan Parameter Setting(continued)

8. Modify the CV Value (CV Name = rawmode, New Value = 1)
   a. Click **[Research Operation]**.
   b.Click **[Display CVs]** .



DISPLAY CVS
ILLUSTRATION 4

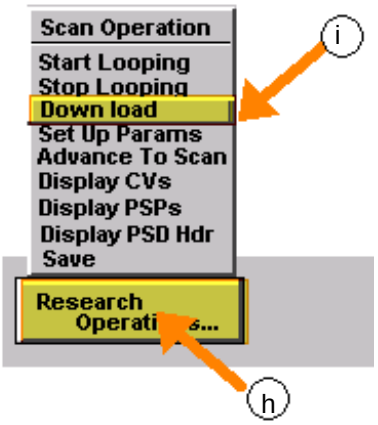
   c. Input CV name as [**rawmode**]
   d.Press **[Return]**.
   e.Enter New Value as "**1**".
   f.Press **[Return]** button.
   g.Press **[Accept]** button.



MODIFY CVS
ILLUSTRATION 5

1. Scan Parameter Setting(continued)

h.Click **[Research Operation]**.
i.Select **[Down Load]**.

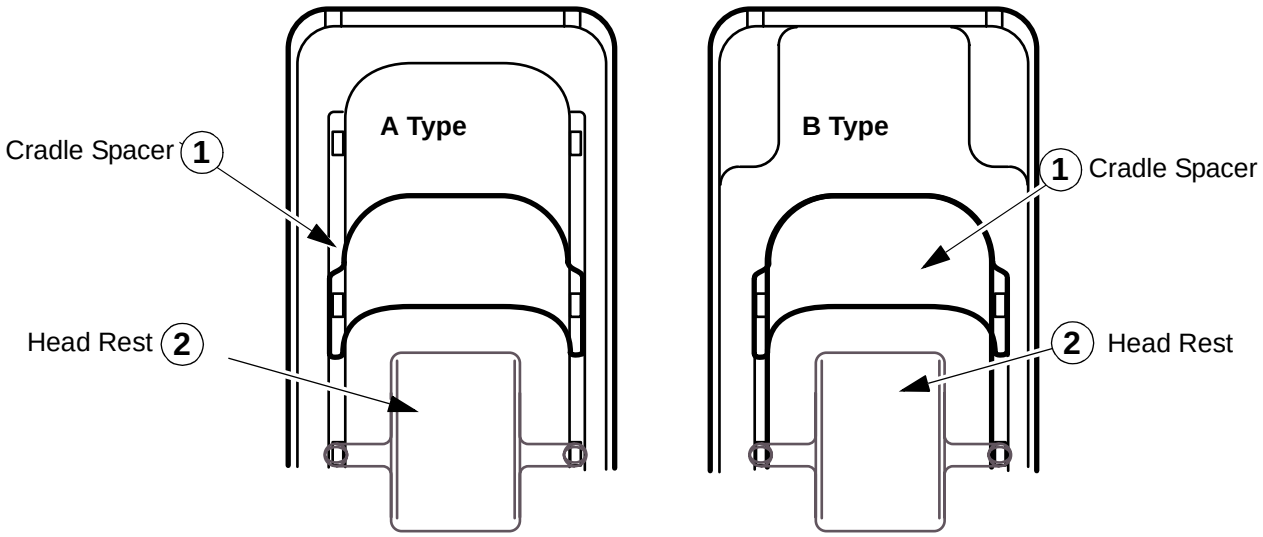


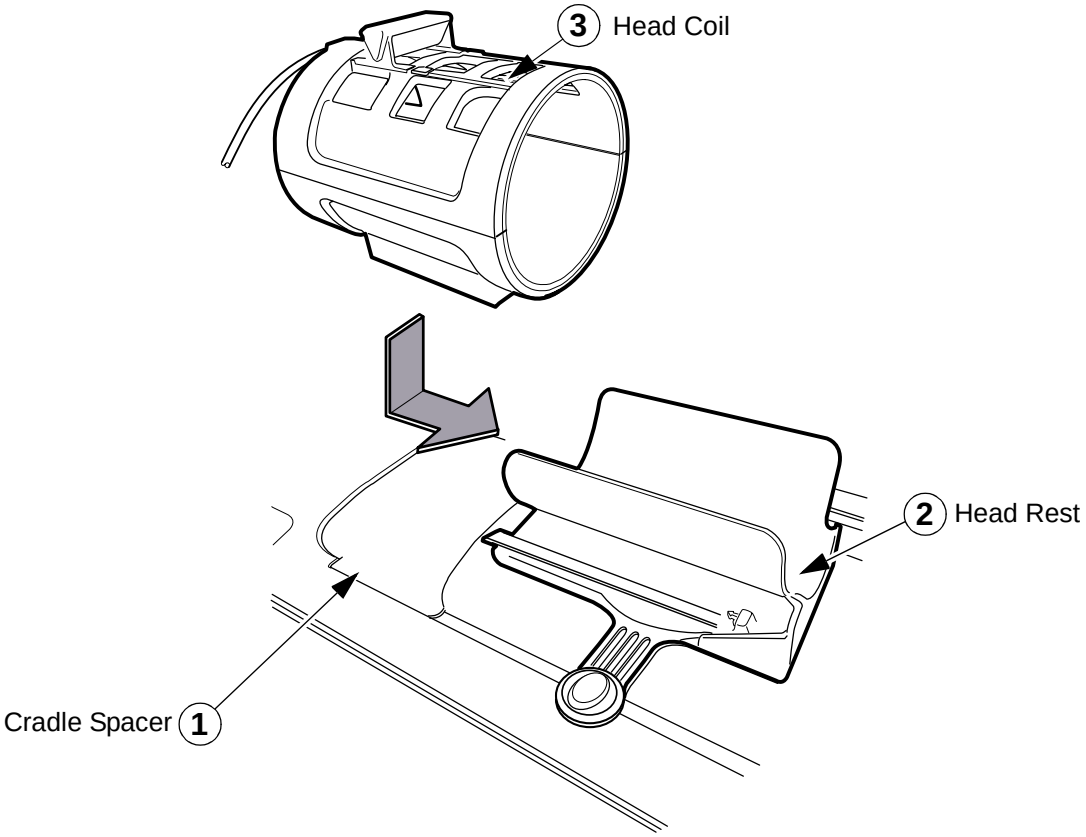
DOWN LOAD
ILLUSTRATION 6

2. Phantom Setting

1. Set cradle spacer to cradle.
2. Set head rest onto cradle.
3. Set head coil to head rest..

NOTE:There are two type of table as following illustration.

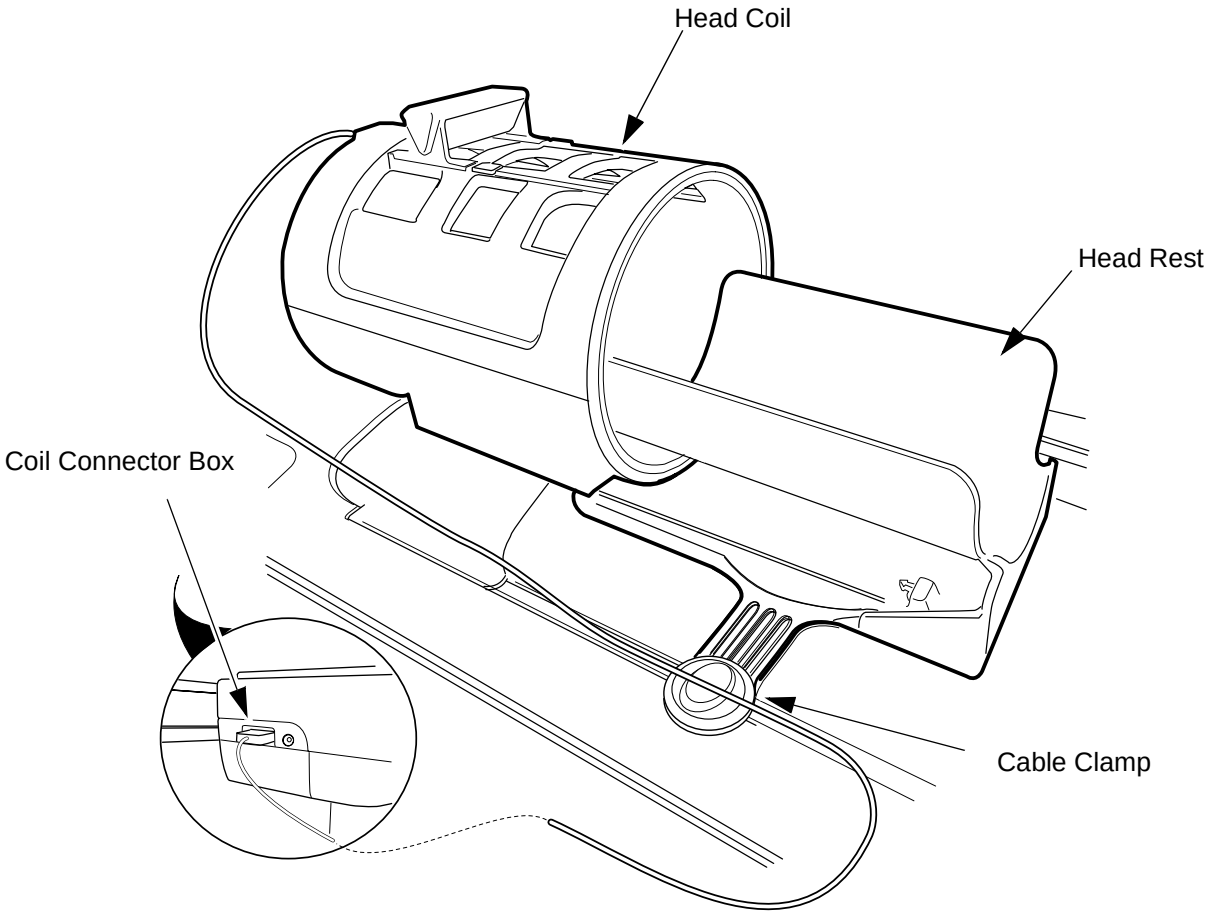




HEAD COIL SETTING 1
ILLUSTRATION 7

2. Phantom Setting(Continued)

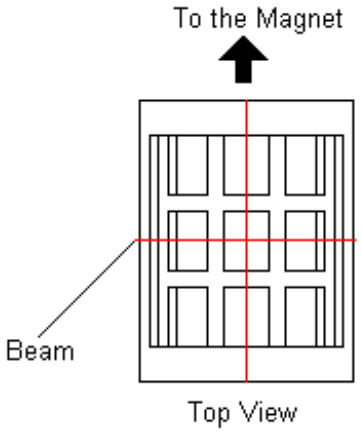
4. Connect the coil connector box to table connector port.
5. Attach the coil cable to cable clamp of head rest.



HEAD COIL SETTING 2
ILLUSTRATION 8

2. Phantom Setting(Continued)

6. Advance the cradle to the position where the A-light beam hits the center of coil.



ALIGNMENT LIGHT
ILLUSTRATION 9

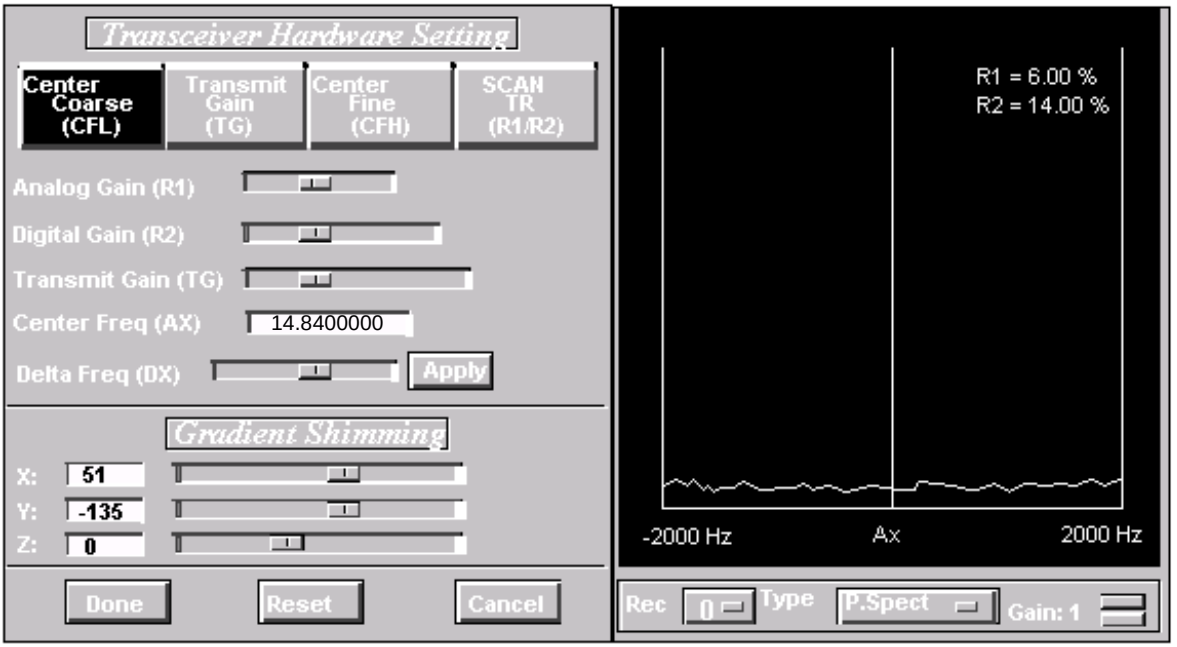
7. At front enclosure on scanner, press LANDMARK, then MOVE TO SCAN.

3. Scan

8. Select **[Manual Prescan]**.

MANUAL PRESCAN
ILLUSTRATION 10

9. Set TG=1, R1=13, R2=15.



MANUAL PRESCAN
ILLUSTRATION 11

3. Scan (continued)

10.Select **[Scan]**..

SCAN
ILLUSTRATION 12

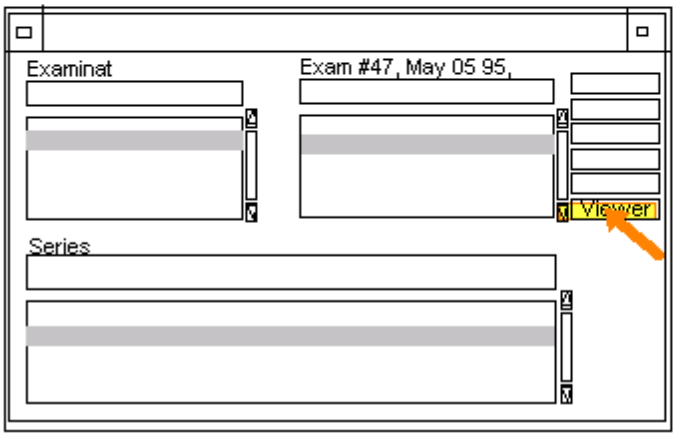
11.Verify that scanning has been started.

4. Data Analysis

1. Open the Image.

1. Select [Advantage Windows] Icon.

2. Select "Exam", "Series", and "Image" from the patient list and then press [Viewer].

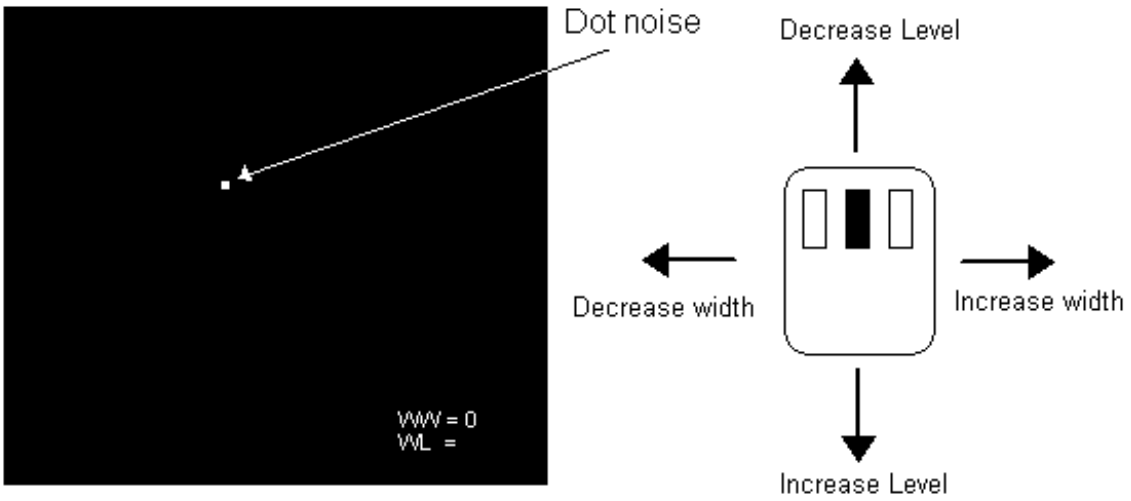


OPEN IMAGE
ILLUSTRATION 13

4. Data Analysis (continued)

2. Measure Mean Value (Ms) of the brightest dot.

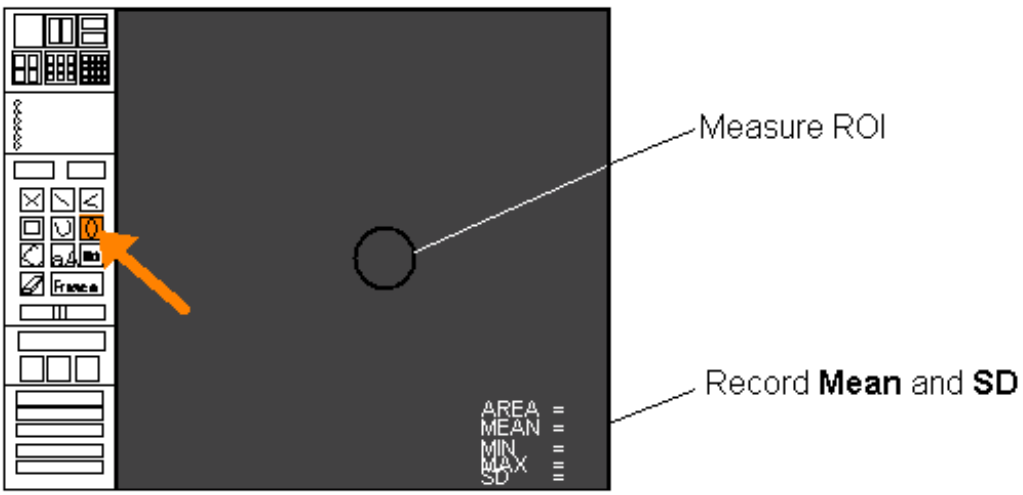
    1. Set WW to 0.
    2. Increase WL until only the one brightest dot can be seen on the Image.
    3. Record the value of WL as Ms.



DOT NOISE
ILLUSTRATION 14

3. Measure Mean Value of the center of the Image(Mn) using circular cursor.

    1. Select Elipse [ ] from Graphic Menu.
    2. Set the circular cursor to the center of the phantom. Be sure that there is no bright part inside of the circle.
    3. ROI (Region of Interest) comes up to the right bottom of the Image automatically.
    4. Record the SD and Mean value of ROI.



BACKGROUND NOISE
ILLUSTRATION 15

4. Verify the following formula.

$$M(s) - M(n) \leq 10 \times SD(n)$$

Table 1:

Mn	Ms	SD

Revision History

Rev	Date	Author	Primary Reasons For Change
0	Jan 26, 2001	Y. Masumo	Initial Release
1	May 15, 2001	Y. Masumo	Head Coil setting is updated
2	Jan 28, 2002	Y. Masumo	Page 9: R1, R2 values are added.