

Pro Focus 2202

Software Upgrade Procedure

IMPORTANT:

The installation procedure must be carried out only by B-K service personnel or their authorised representatives, who are aware of the hazards involved.

Necessary tools for the installation:

- USB Flash Key

NOTE:

This procedure should be used to update the software only. This procedure is not valid for updating the XPE embedded image.

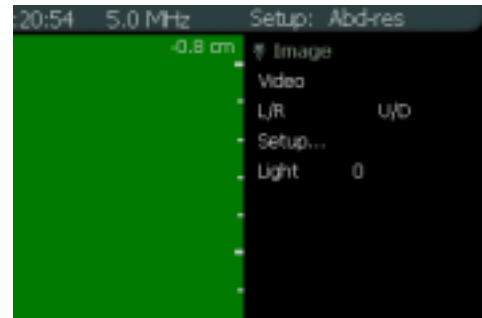
CAUTION:

License Keys, Password settings, exams & patient database will survive the update. All other settings will be overwritten with new ones during the installation. If you want to keep your settings make sure to read chapter 1: **Making backup of user settings** and then chapter 3: **Import Settings**.

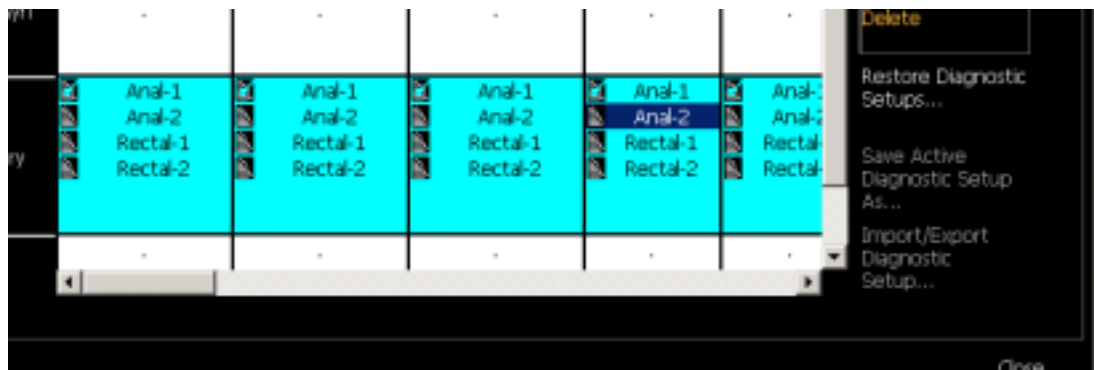
1 Making backup of user settings

If you want to save your current settings, follow these steps otherwise skip this chapter and continue reading chapter 2: **Install Software**.

1. Start the scanner
2. Connect a supported transducer
3. Click on **Setup...**

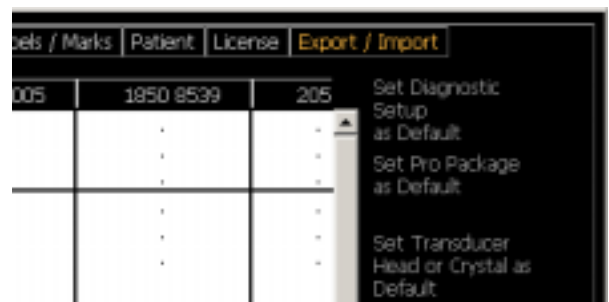


4. Examine the list of all view setups. We must delete all the setups having a B-K logo in each of the Pro Packages for each of the Transducers.

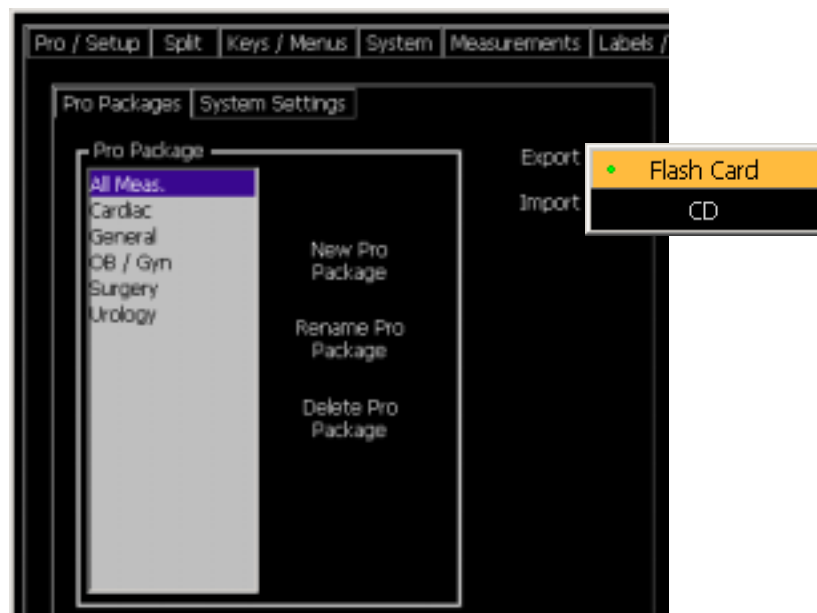


5. Select in succession each of the views and click **Delete**. The result should be that one those views that do not have the B-K logo are left. (The views with the B-K logo are factory defaults while the views without the B-K logo have been modified and are therefore important.)

6. Click on **Export / Import**



7. Select in succession each of the items in the Pro Package List.
8. Click on the down arrow next to **Export** and select **Flash Card**.



9. Enter a file name:

10. Click **OK**



11. Click on **System Settings** and select in succession each of the items in the list and export them. (Step 10-12).

2 Install Software

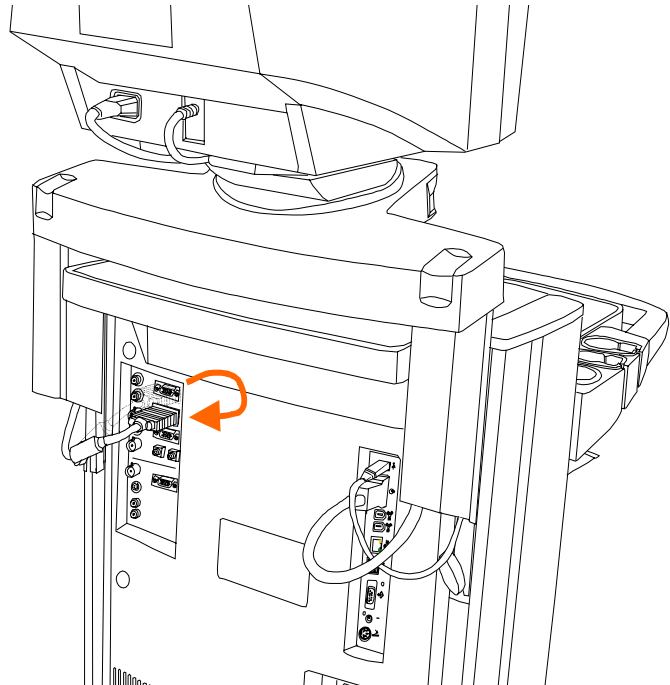
1. Start up the scanner and wait for complete boot-up.
(Only if you did not follow chapter 1)

2. Press **ALT + F4**

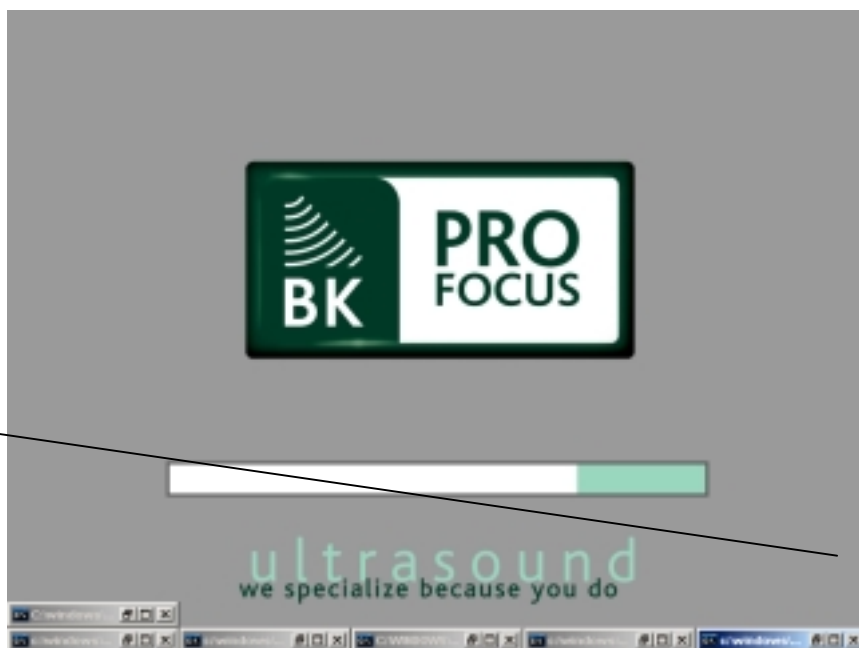
3. Enter password: **vikings**
and click **OK**, the scanner
will then turn OFF.



4. Check that the monitor cable
is connected to VGA 2 on
the back of the scanner
(default is VGA 1 for normal
use)

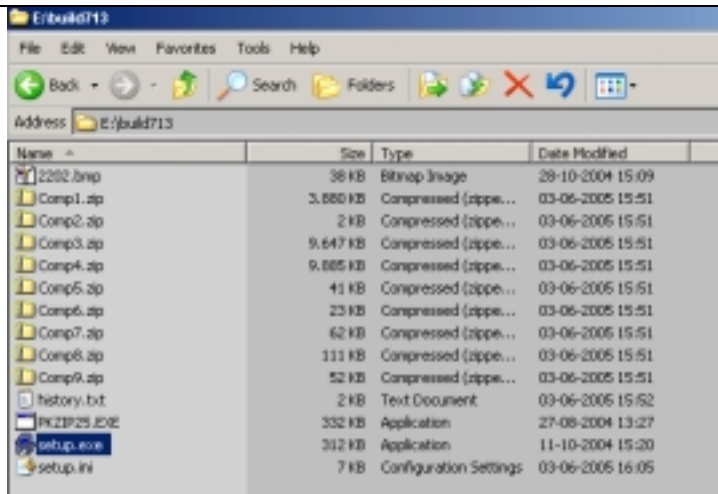


5. Turn on the scanner and wait for it to boot up in service mode. The monitor will then show the below image with a number of minimized windows at the button.
6. Click on maximize on one of the boxes



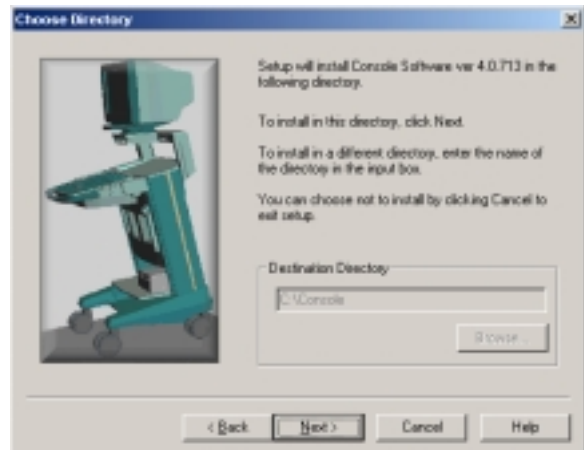
```
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\WINDOWS\system32>
```

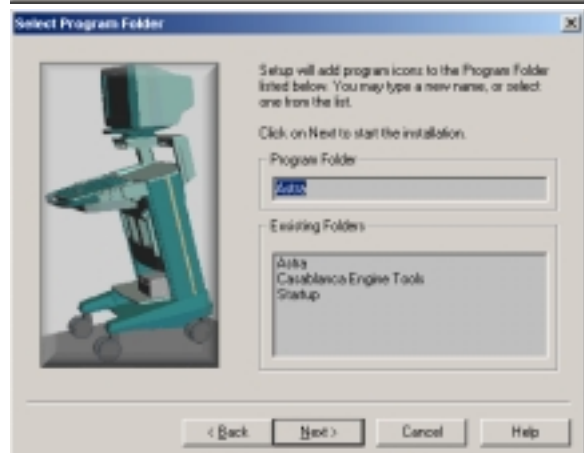
Using CD	Using USB Flash
7. Type D: :	7. Type explorer
<pre>Microsoft Windows XP [Version 5.1.2600] (C) Copyright 1985-2001 Microsoft Corp. C:\WINDOWS\system32>D: D:\></pre>	
8. Change folder using the cd <foldername> command if needed.	8. Locate the folder containing the sw. upgrade files
9. Type setup and wait for the below dialogue to appear.	9. Double click at setup.exe and wait for the below dialogue to appear.

10. Click **Next**

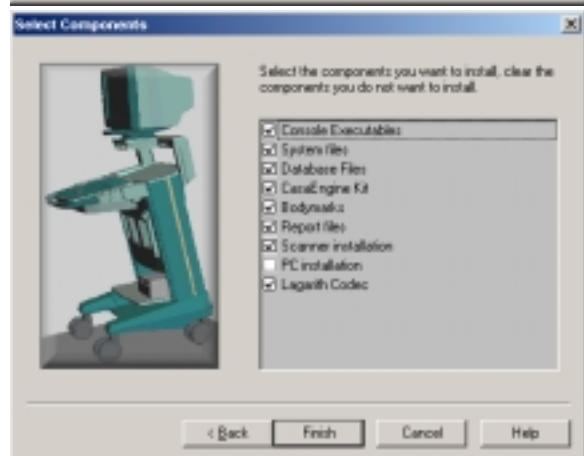
11. Click **Next**



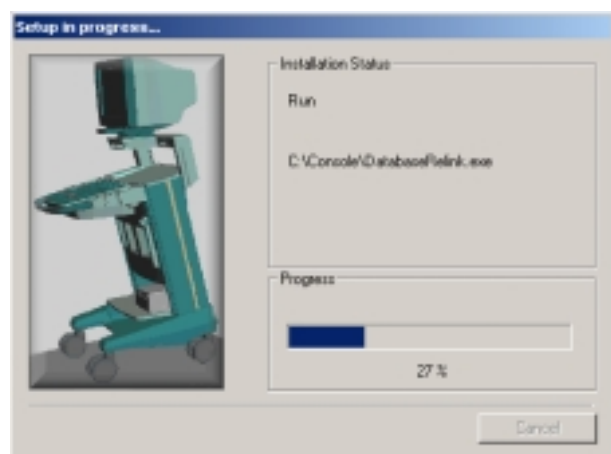
12. Click **Next**



13. Click **Finish** to start the installation of the selected components

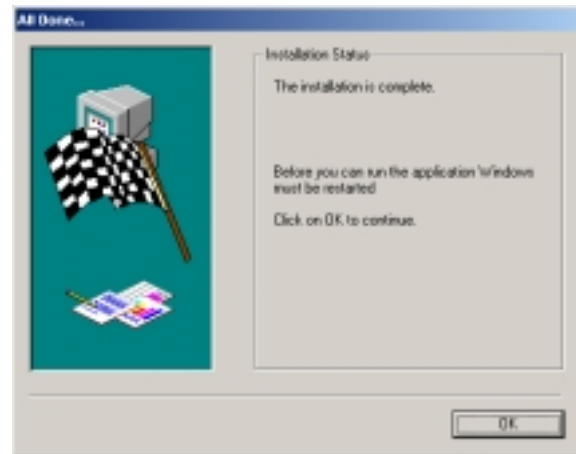


14. Wait for the installation to complete. Note that the progress bar has to reach 100 % several times (one for each component selected in the previous menu)



15. Click on **OK**

16. Remove USB flash key



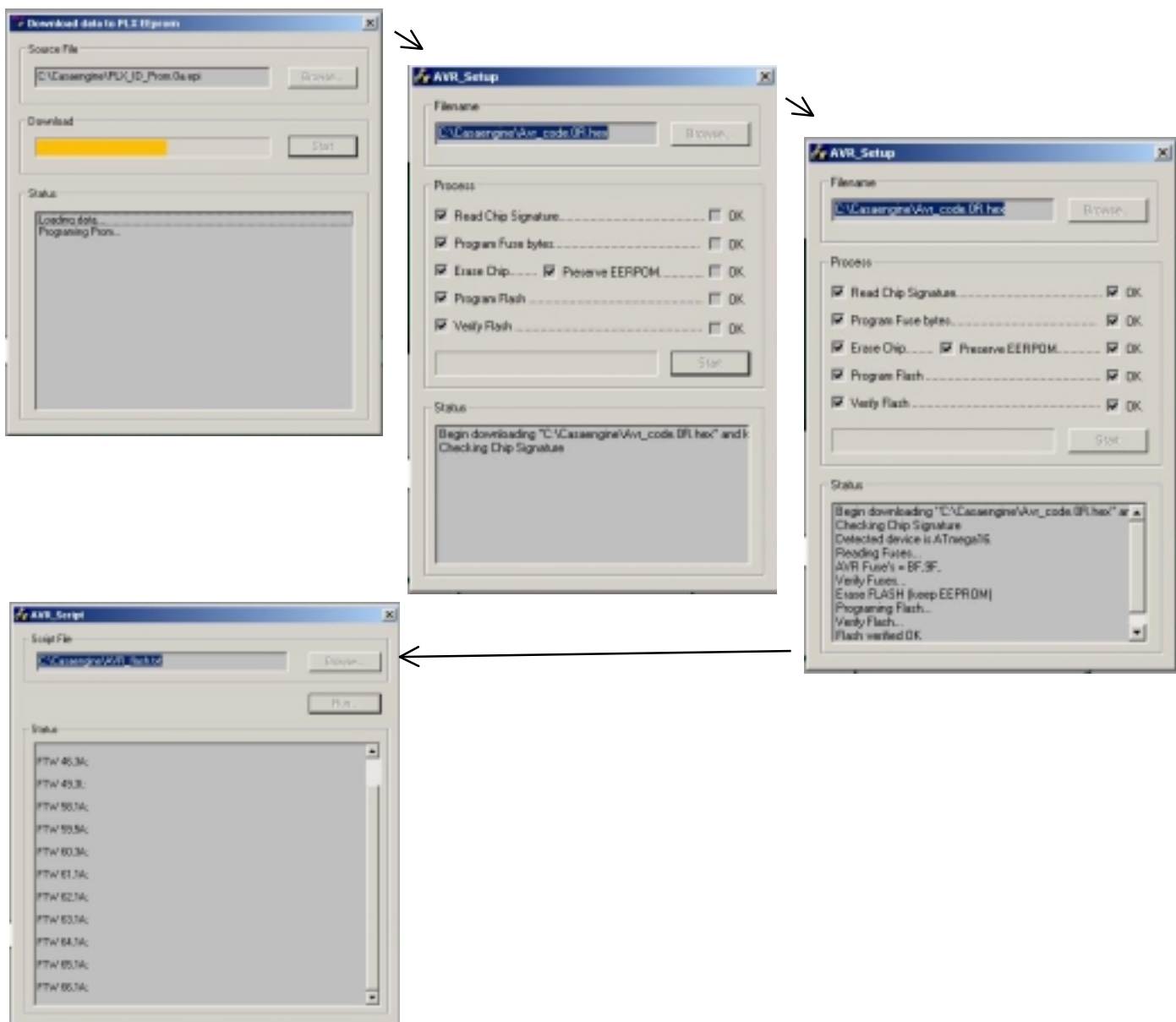
On the Core board there are a number of programmable Flash modules. When changing Core board or installing a new image on the Harddisk or upgrading software it is necessary to update these Flash modules to be sure that the content of these Flash modules complies with the software version on the scanner (HD).

17. Find a Dos Command prompt just like step 5 and step 6 on page 5 and type **menu**.

18. Type "**17**" (**Update Hardware (FPGA/CPLD/PROMS)**) and press **ENTER**

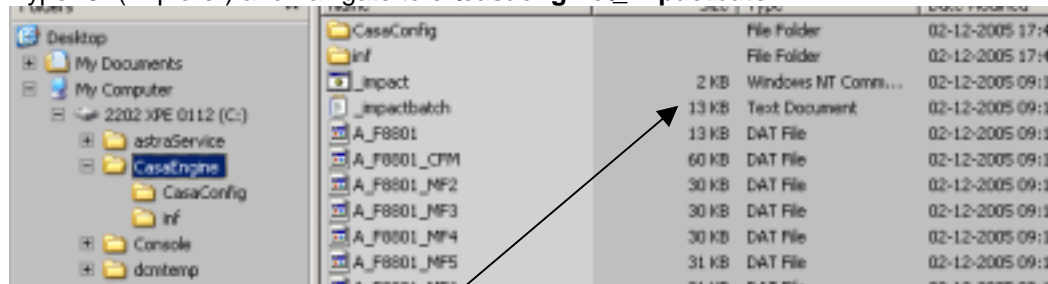
You are about to update all Flash devices on the CoreBoard
Press Ctrl-C to Abort or
Press any key to continue . . .

19. Press **ENTER**. (The Flash update will now start - first you see commands execution in the DOS window and then you will see the below menus)



20. When the update is done the screen will return to the normal Service Mode screen.

21. Type "8" (Explorer) and navigate to **c:\casaengine_impactbatch**

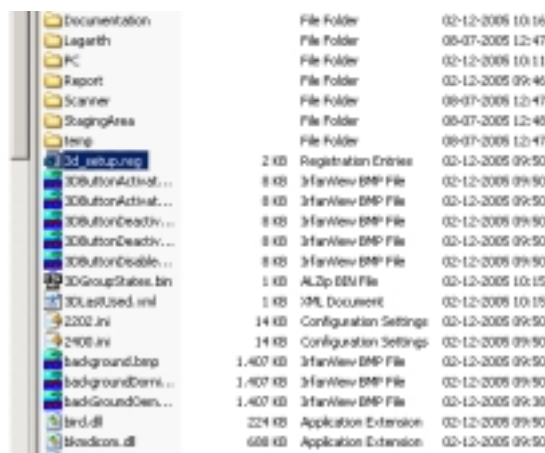


22. Examine that the File size is 13 KB. If the file size is different repeat step 18-22 until the file size is 13 KB. If the file size is not 13 KB and you continue, you might risk damaging the core board.

23. Double click on **_impactbatch** and find these lines:

```
INFO:IMPACT:301 - '2': Added Device xc2c128 successfully.
=====
// *** BATCH CMD: program -position 2 -erase -verify
Validating chain.
Boundary-scan chain validated successfully.
'2': Erasing device...done.
'2': Erasure completed successfully.
done.
'2': Erasure completed successfully.
'2': Programming device... 0%[ 1%[ 2%[ 3%[ 4%[ 5%[ 6%[ 7%[ 8%[ 9%[ 10%[ 11%[ 12%[ 1
'2': Verifying device...
30%[ 31%[ 32%[ 33%[ 34%[ 35%[ 36%[ 37%[ 38%[ 39%[ 40%[ 41%[ 42%[ 43%[ 44%[ 45%[ 46%
'2': Setting ISC done hits...done
'2': Programming completed successfully.
Elapsed time = 2 sec.
=====
```

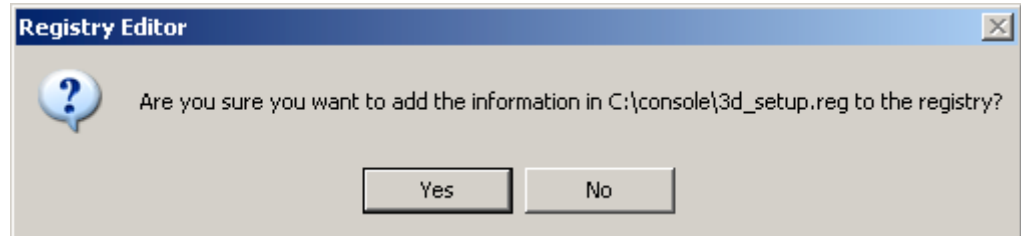
24. Close the notepad



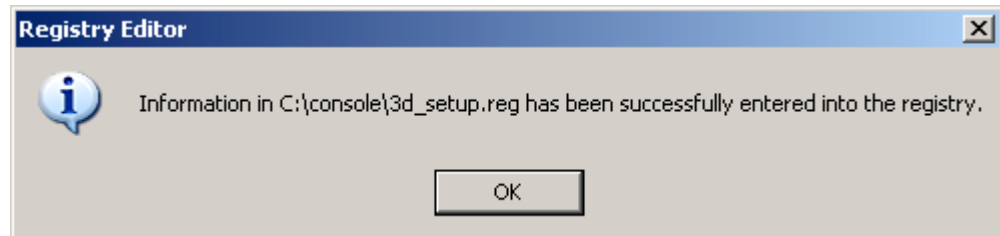
25. Navigate to **c:\console\3d_setup.reg**

26. Double click on **3d_setup.reg**

27. Click on **Yes**



28. Click on **OK**



29. Use **ALT + TAB** to activate one of the DOS Windows and type **menu** if necessary

30. Type "**1**" to select "**Set Console as shell (Normal use)**"

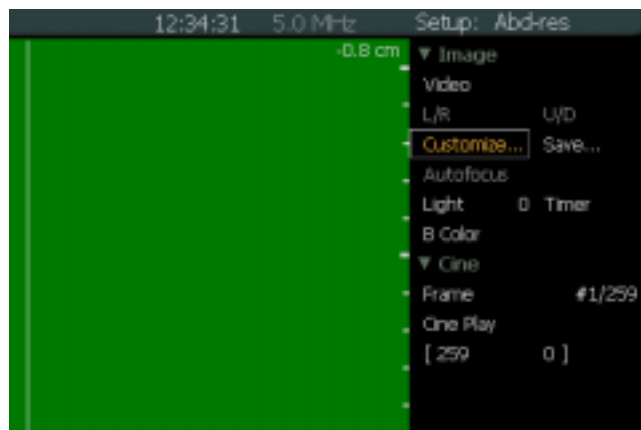
31. Choose **OK** and **OK**.

32. Type "**15**" to select "**Reboot scanner**"

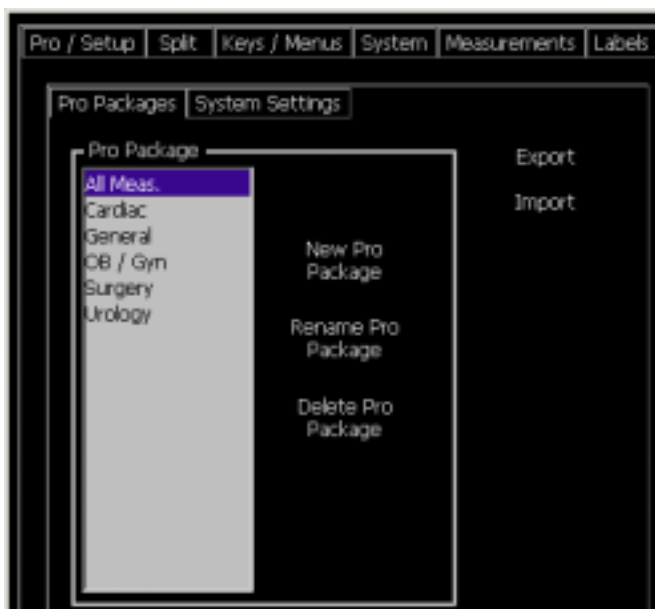
3 Import Settings

If you want to save your old settings, and did follow chapter 1: **Making backup of user settings**, follow these steps otherwise skip this chapter and continue reading chapter 4: Verification.

1. Click on **Customize...**



2. Click on **Export / Import**



3. Click on **Import** and select in succession each of the items, you made a backup of and click **OK**.
4. Repeat this for all your backup files in the Pro Package list.



You will notice that the imported Pro Package will get a name like fx the imported Surgery will become Surgery 1. Surgery 1 will contain all the changes made before the software upgrade. Surgery will contain all the new view setups.

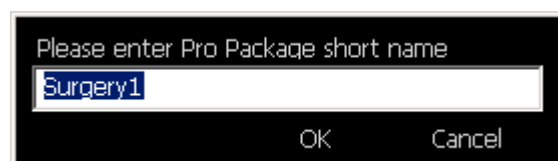
5. Click on **System Settings** and then import in succession each of the item, you made a backup of and click **OK**.
6. Repeat this for all your backup files in the System Settings. (Say **OK** to all dialog windows)
7. Click on **Pro / Setup**
8. Select each of the views with B-K logo in each of the Pro Packages for each of the Transducers and click on **Copy**. (fx we have select a view in Surgery and)
9. Select the Pro Package with same name+1 in the list. (fx we select Surgery1).
10. Repeat this (step 8 & 9) for all the view setups for all Pro Packages and all transducers.



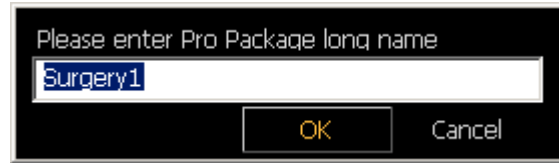
11. Click on **Import / Export**
12. Now the original Pro Packages (fx Surgery) will be empty and the imported Pro Packages (fx Surgery will have all the views.) Select the Original Pro Package and click on **Delete Pro Package**.



13. Click on **Yes**
14. Select the imported Pro Package (fx Surgery1) and click **Rename Pro Package**.
15. Remove the letter "1" and click on **OK**



16. Remove the letter "1" and click on **OK**
17. Repeat step 12-16 for all Pro Setups.



4 Verification

Finally verify that software update starting with the version number.

If you had imported your settings, verify that your settings have been imported properly.