



Installation Manual

RADIOVIDEOGRAPHY SENSOR

RX4

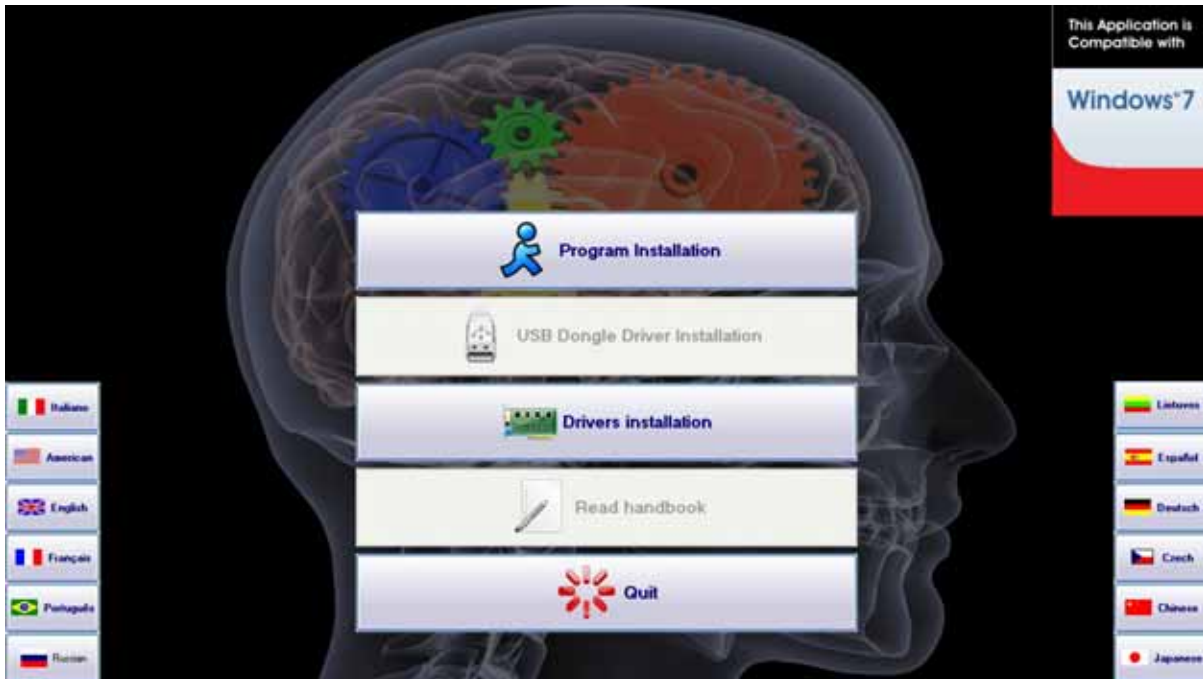
Managing Editor: Francesco Combe

FH056
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1. CSN OS INSTALLATION WITH WINDOWS XP

First insert the CD, provided with the radio video X-Ray system, in your computer CD Unit, wait for a moment and the installation menu will automatically start. This menu allows installing the CSN OS[®] Software.



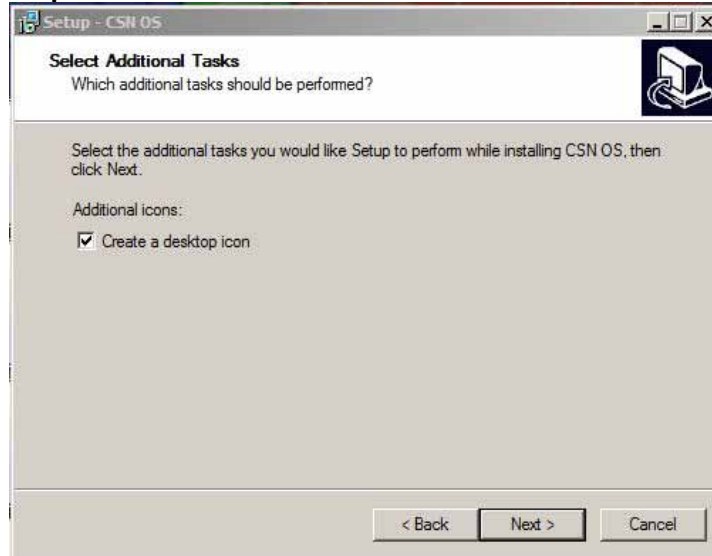
pic. 1

Select **“Program Installation”** from this menu.
Then click on **“Next”** to proceed with the installation.



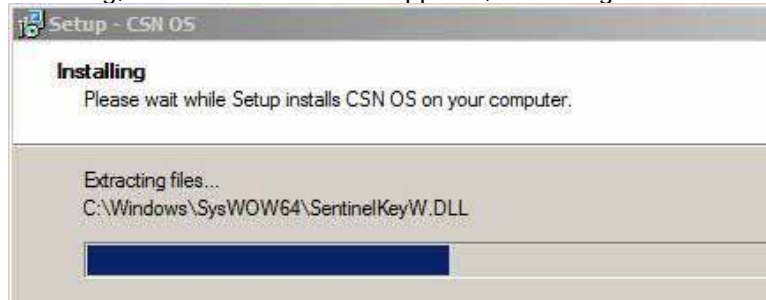
pic. 2

Select **Create a desktop icon** and click on **Next**



pic. 3

During the software loading, a band of increments appears, indicating the installation state.



pic. 4


Once the installation has been completed, a new window confirms the end of the software installation. Click on **Finish**.



pic. 5

2. CSN OS INSTALLATION WITH WINDOWS VISTA

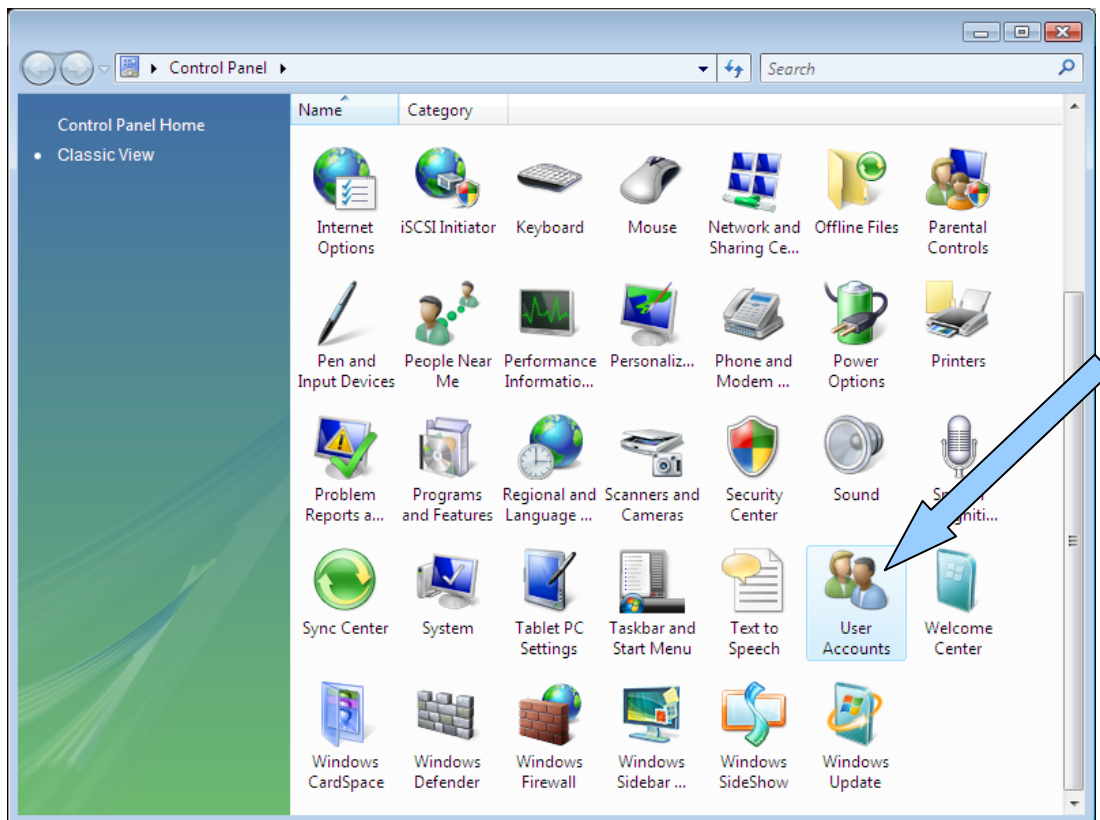
To install the software with Windows Vista, first of all disable the User account system control.

From "Start" menu  (vista logo is positioned in the left lower part of the toll bar) select "Control Panel".



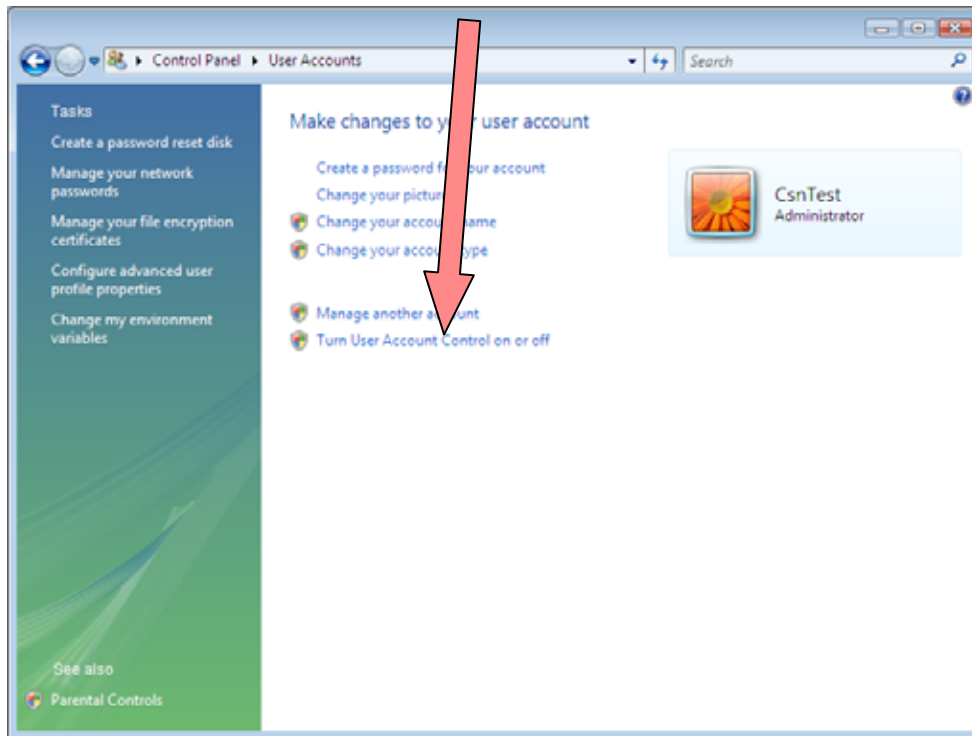
pic. 6

Now from Control Panel window, select "User Accounts".



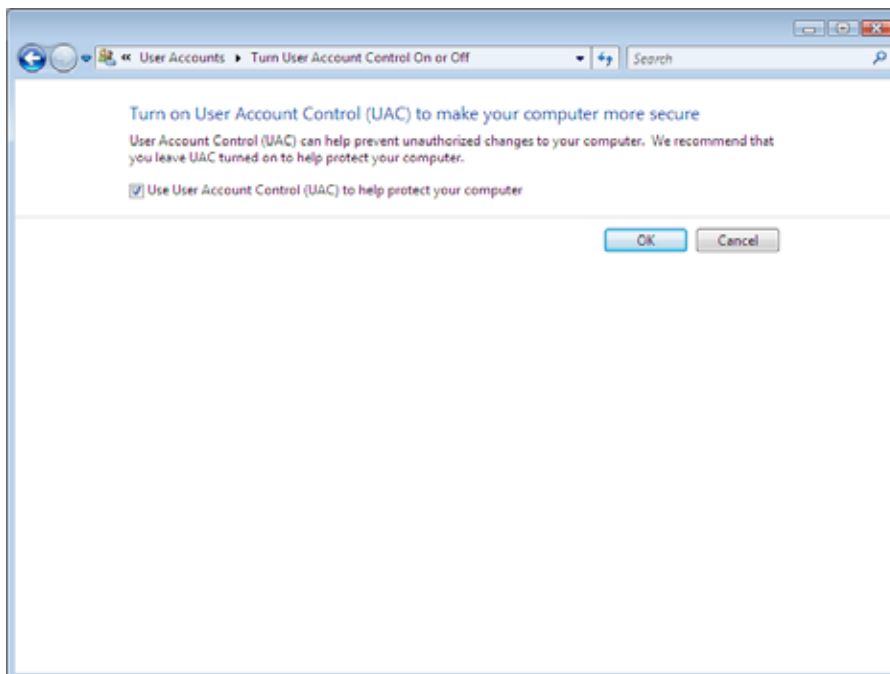
pic. 7

Now select your user account, then click on **“Turn User Account Control on or off”**.



pic. 8

Unselect “Use User account Control (UAC) to help protect your computer”, then click on **OK**”.




pic. 9

Now restart your Operative system, and proceed with the CSN OS[®] software installation, following the instructions in previous chapter (1).

3. CSN OS INSTALLATION WITH WINDOWS 7 - 32 o 64 bit

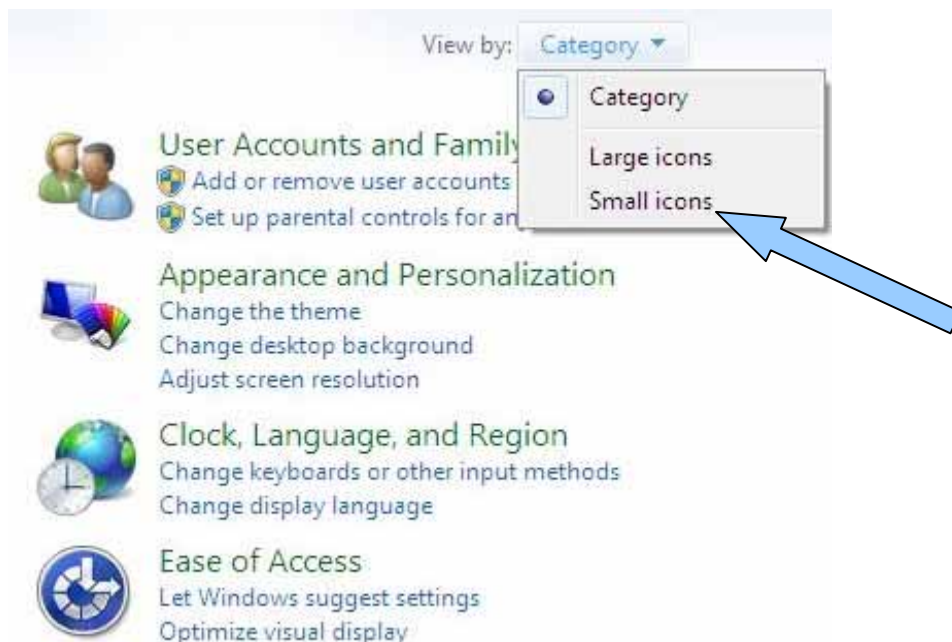
To install the software with Windows 7 first of all disable the User account system control.

From **Start** menu  (logo of 7 is positioned in the left lower part of the bar select "**Control Panel**").



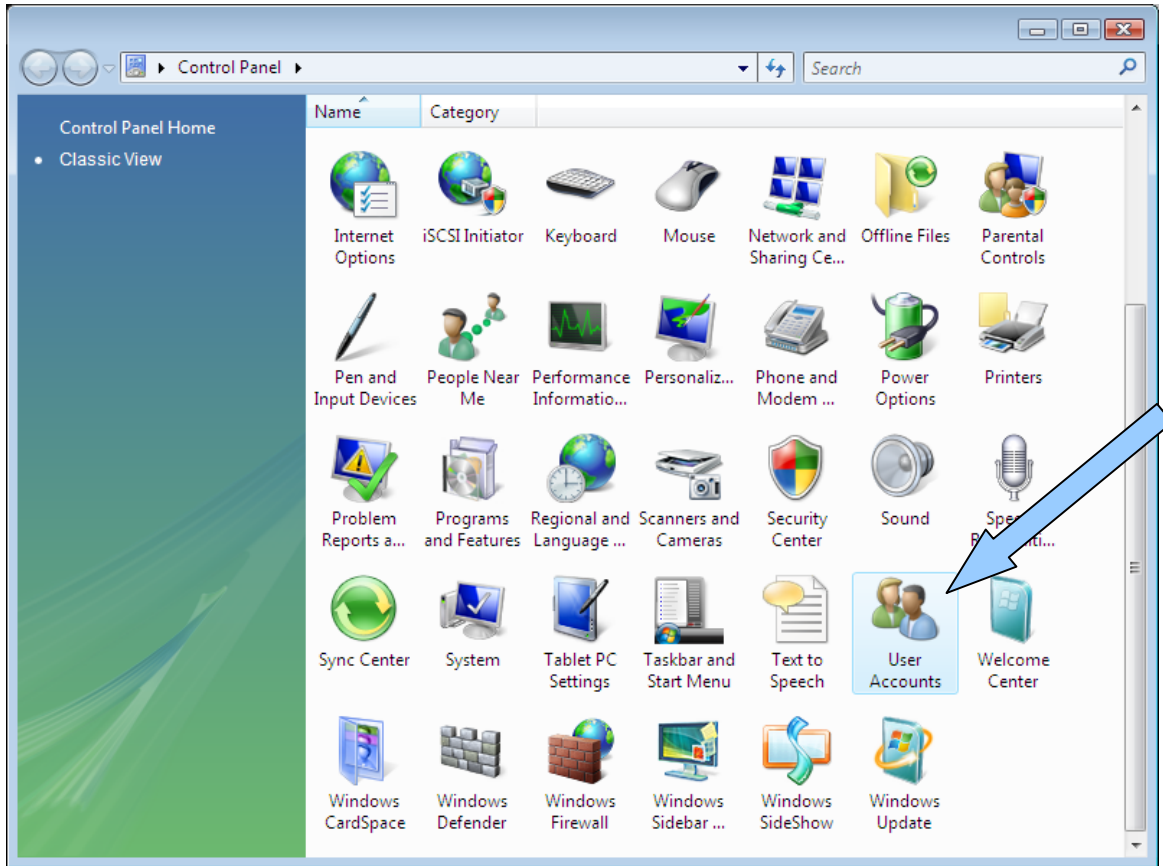
pic. 10

Then choose "**Small icones** " category on right top, in order to see all the icons on control panel



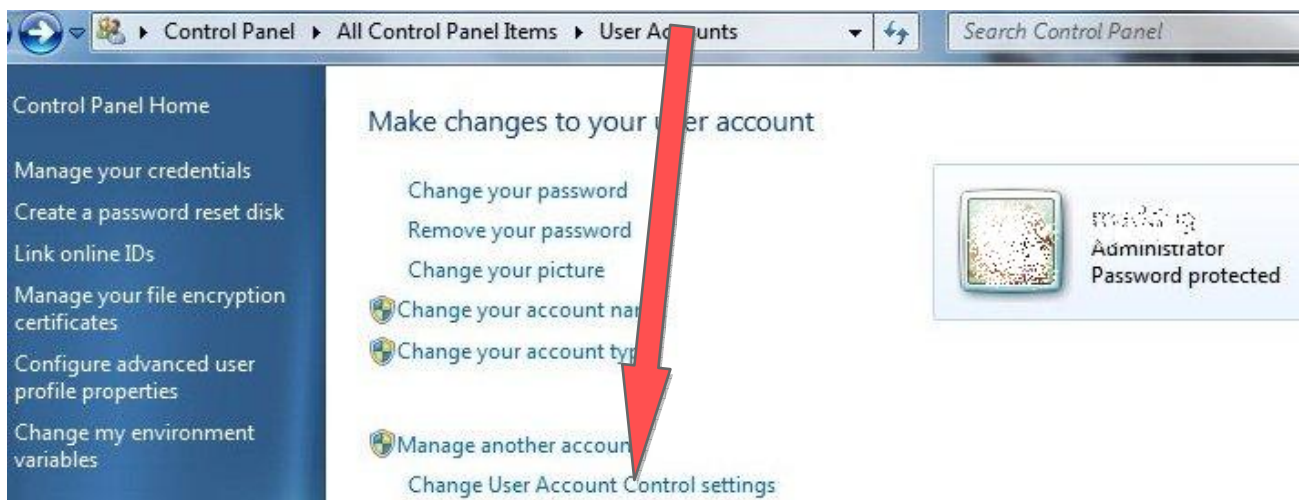
pic. 11

Now from Control Panel window, select **"User Accounts"**.



pic. 12

Now select the new user account you created and click on the left bar **"Change User Account Control Settings"**.



pic. 13

Now move the cursor down to the end where you see **“Never notify”** and then press **Ok**.

Choose when to be notified about changes to your computer

User Account Control helps prevent potentially harmful programs from making changes to your computer. [Tell me more about User Account Control settings](#)



pic. 14

Now restart your Operative system, and proceed with the CSN OS[®] software installation, following the instructions in previous chapter (1).

4. RX4 HARDWARE INSTALLATION

RX4 radiovideography system consists of one part only, where one side ends with the sensor and the other ends with USB connection.

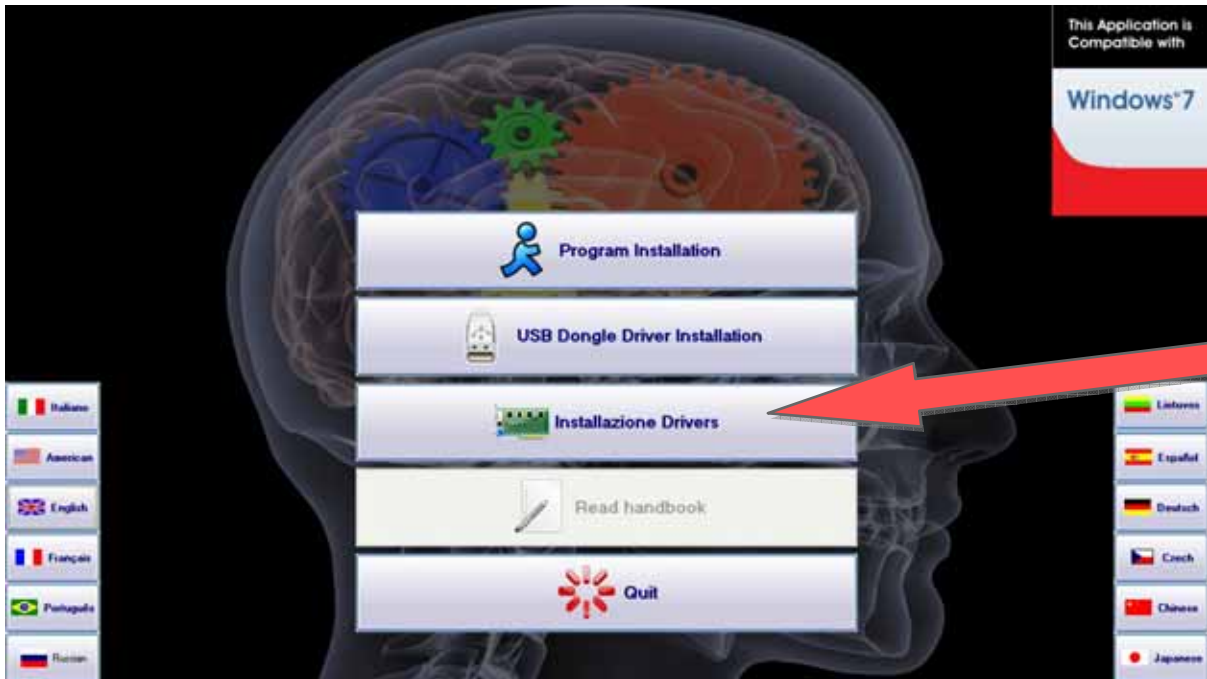


pic. 15 RX4

5. RX4 HARDWARE INSTALLATION WITH WINDOWS XP

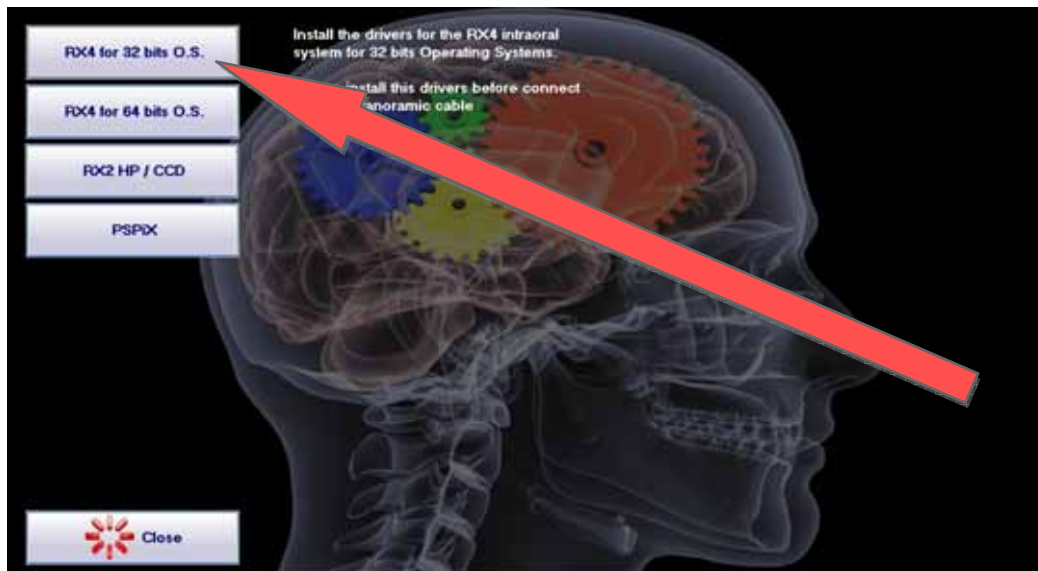
(Some windows may be different if you use a PC or a laptop)

If CSN OS cd is still inside the pc, you should start the **Setup** otherwise please put it into the pc and wait for the installation window, then click on **"Drivers Installation"** (pic.16).



pic. 16

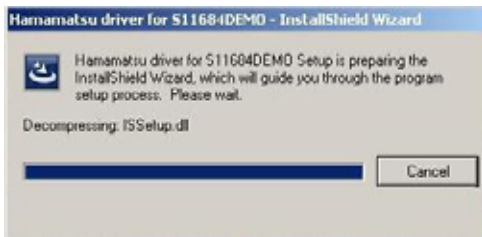
Then click on **"RX4 for 32 bits O.S."**



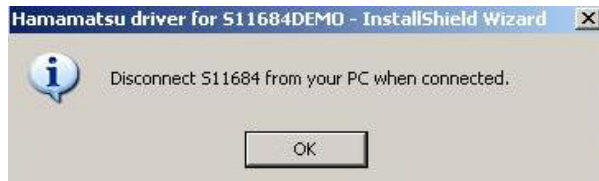
pic. 17

In this way you start the sensor drivers installation.

You will see first a loading procedure window (pic.18), then you have to click on **OK** (pic.19)



pic. 18



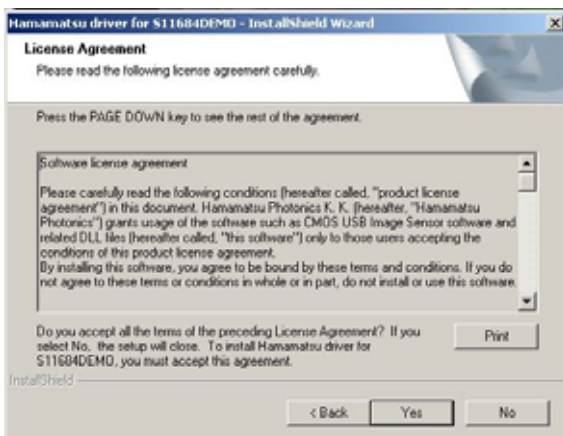
pic. 19

After having clicked on **OK** the real driver installation procedure will start, in this case click on **"Next >"**

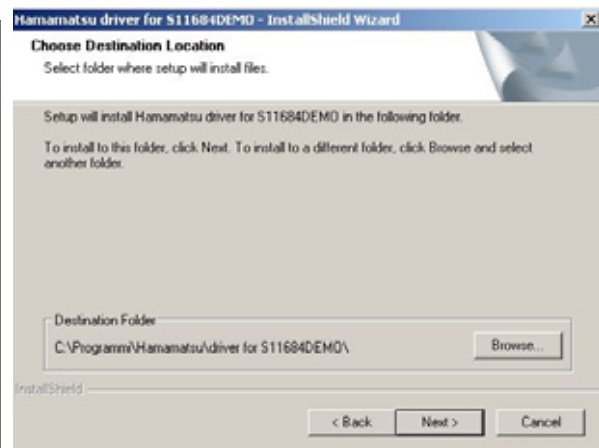


pic. 20

Then choose **"Yes"** (pic. 21) and in the following window click on **"Next >"** (pic. 22)



pic. 21

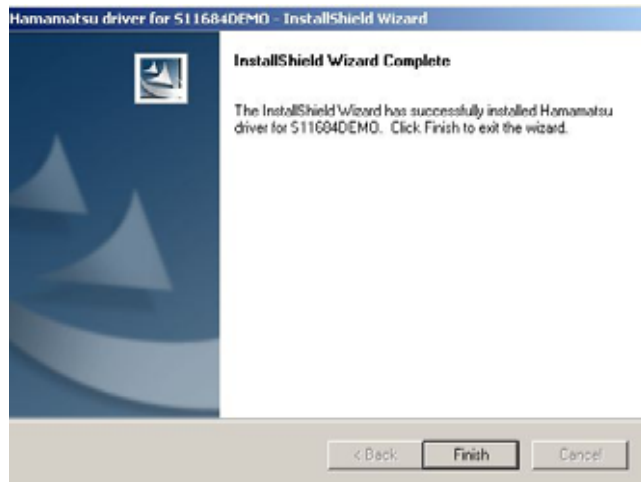


pic. 22

Wait for the end of installation (pic. 23) and then click on **“Finish”** (pic. 24)



pic. 23



pic. 24

Now you can connect the sensor to the USB port of your PC (pic. 25)



pic. 25

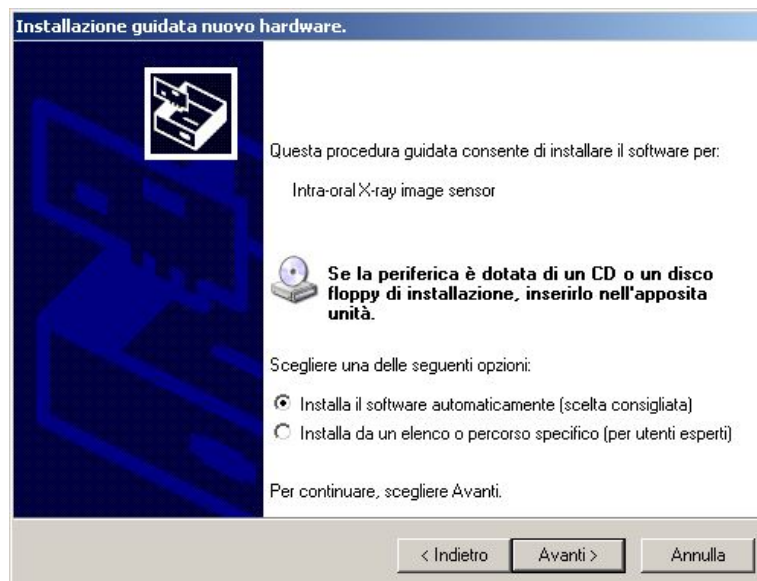
As you are working on Windows XP, once the sensor is connected it will not be automatically recognized by the system, so a window informing about a new peripheral connection will appear.

The window “**Found new hardware Wizard**” will then appear (pic. 26).



pic. 26

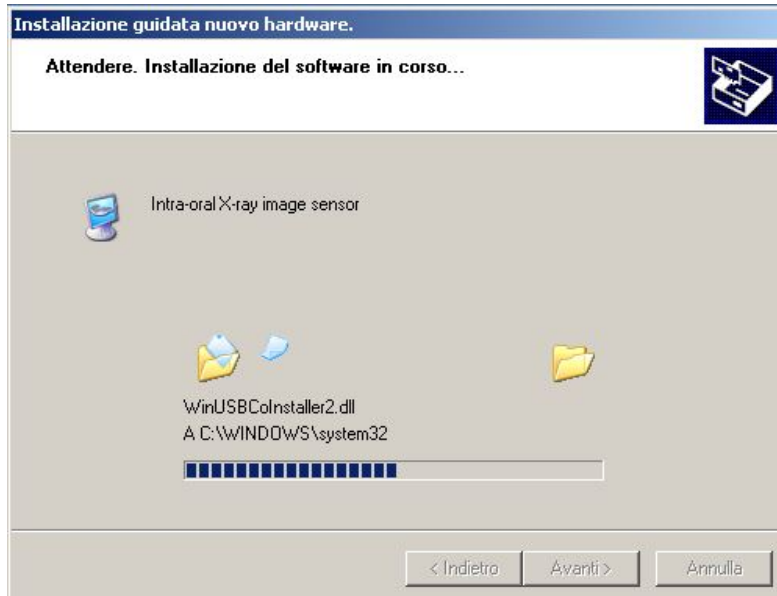
On this window select the third voice “**No, not this time**” and Click on “**Next**”.



pic. 27

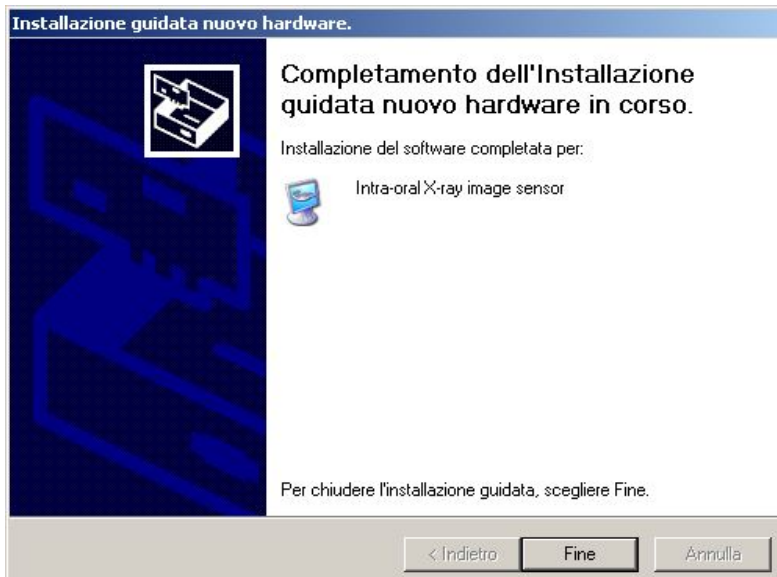
Now select the first voice “**Install the software automatically**” and now click on “**Next**”.

Wait for the end of installation.



pic. 28

At the installation end, a window confirming the correct loading will appear. Click on **“Finish”** to definitely finish the procedure.



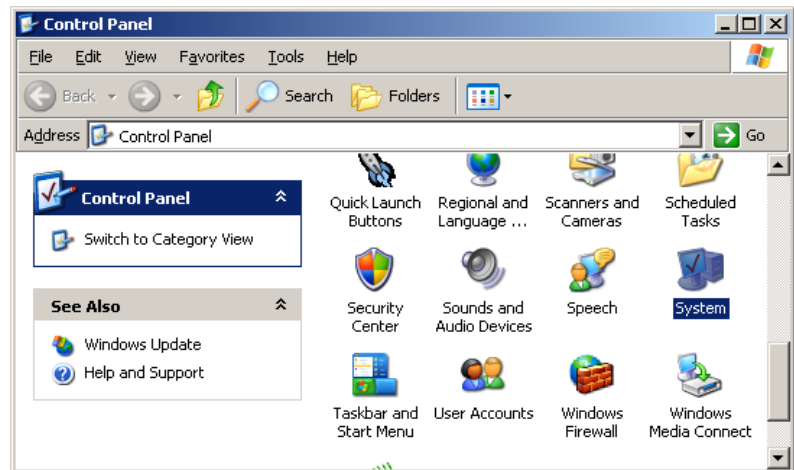
pic. 29

Once the sensor drivers are loaded, it is necessary to proceed with the configuration of the operating system to ensure efficient performances of RX4 sensor.

From Start button open the function : **Control Panel** (pic. 30), then select **System**
*If the item doesn't appear click on **Switch to Category View*** (pic. 31).

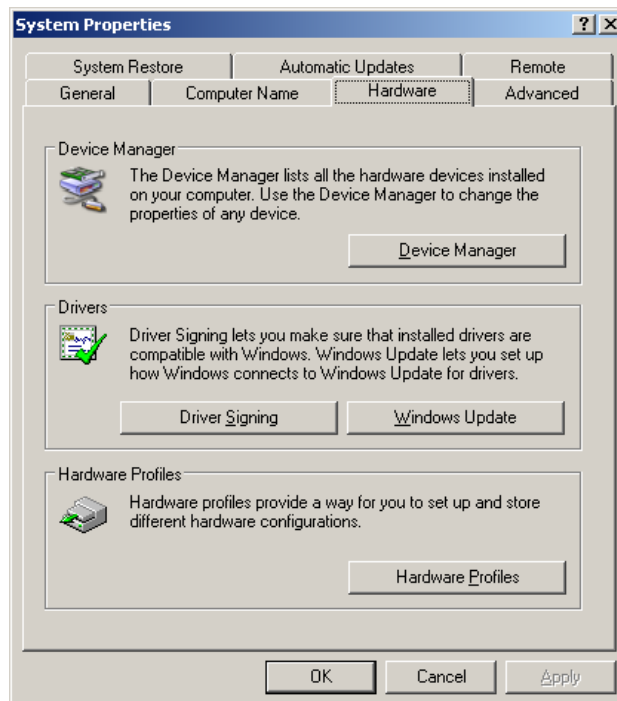


pic. 30



pic. 31

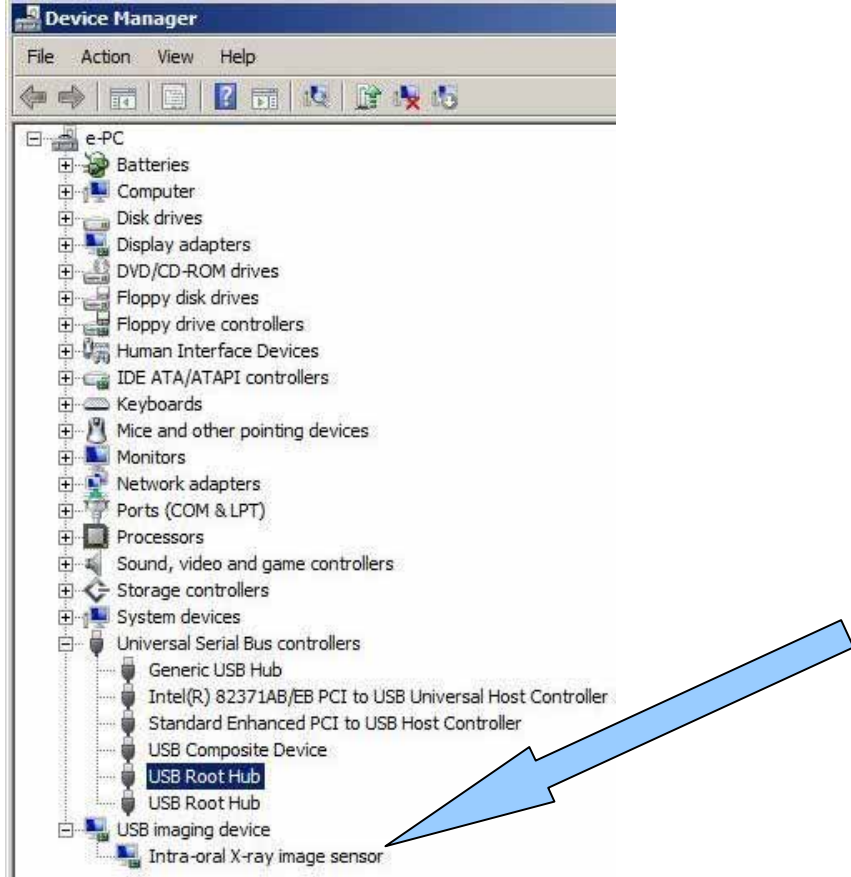
Now select **Hardware** (pic. 32) and then **Device Manager**.



pic. 32

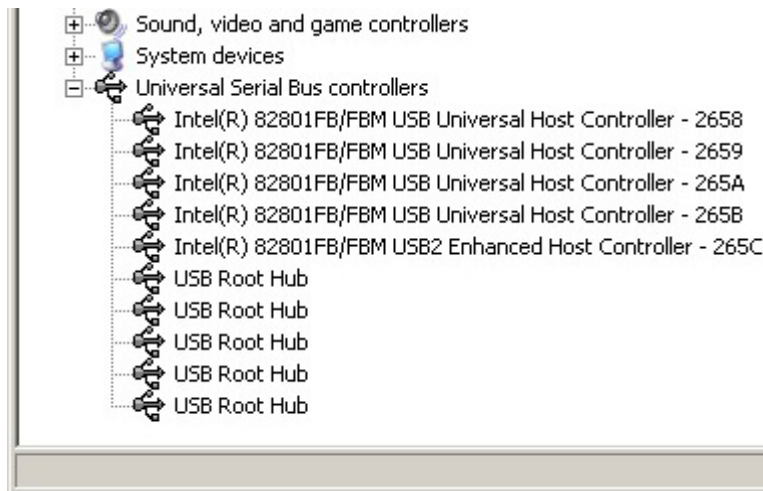
A new window will now appear.

In the bottom part of the peripheral list you will see a category named **USB Imaging device**; inside it will have the name with which you installed the sensor **Intra-oral X-ray image sensor** (pic. 33). (if the item is put in evidence by a yellow question mark, the driver is not correctly loaded, install it again, following the “Sensor Installation Manual”).



pic. 33

From the same menu, select the “+” to the left of the item **Universal Serial Bus controller** and a new item will appear (pic. 34).



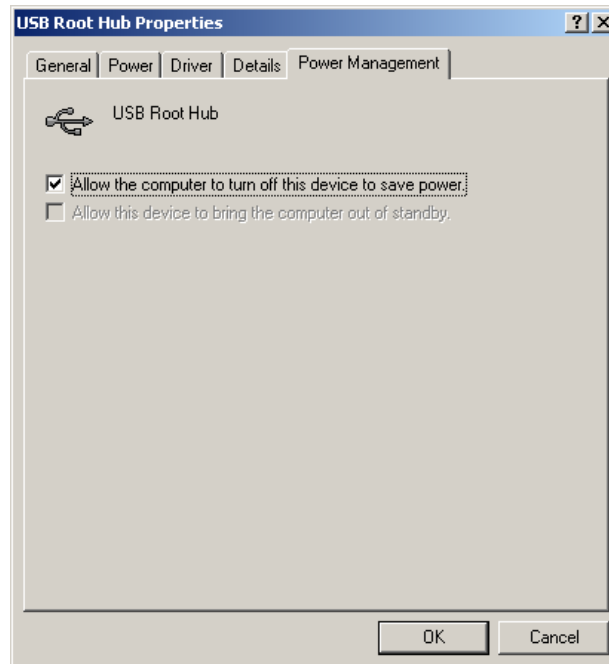
pic. 34

Now the Hub USB and the trademark of the USB ports are displayed.

With reference to the trademarks of the USB ports, the certified ones for a proper operation of the sensor are the Intel and Via Tech; if they are Ali, Open or Sys maybe the sensor must be used with supplied HUB USB.

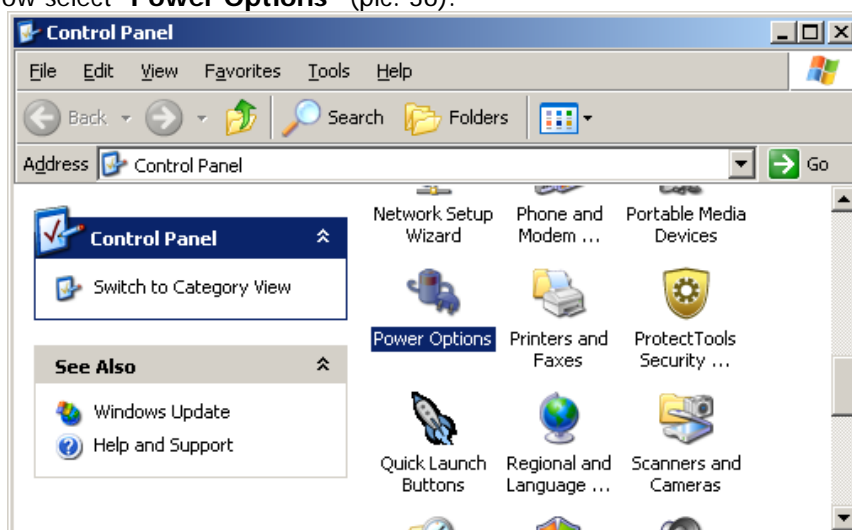
Among the items, the item **USB Root Hub** will appear several times, double click on that item and select power saving.

Now deselect **Allow the computer to turn off this device to save power**, then click on **OK** (pic. 35). This operation must be repeated for all the **USB Root Hub** items.



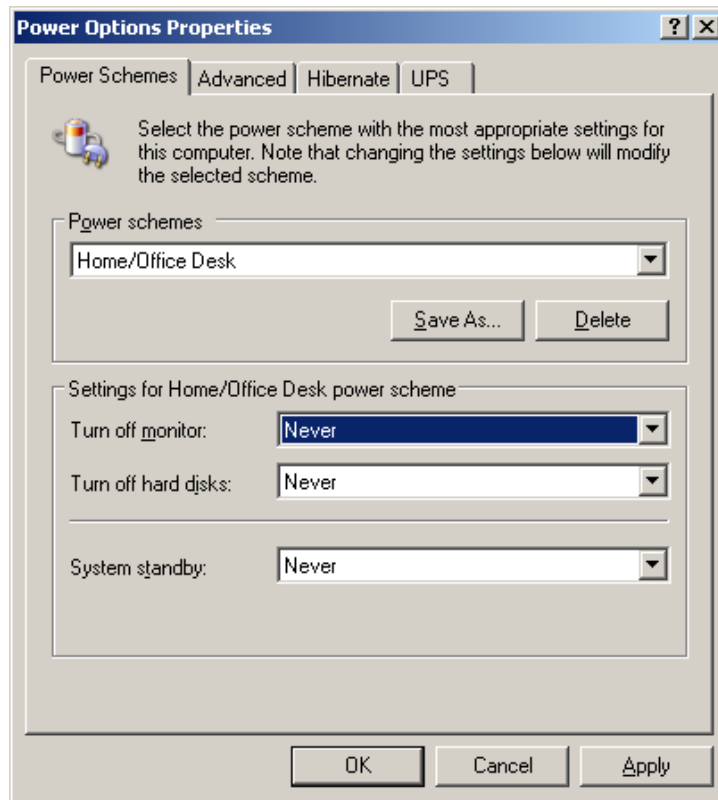
pic. 35

Now close all the opened windows and go back to the **"Control Panel"** described in the first page of this manual. Now select **"Power Options"** (pic. 36).



pic. 36

In the following window, in all the fields select **Never**, then click on **OK** (this window may be different if you use a PC or a laptop).



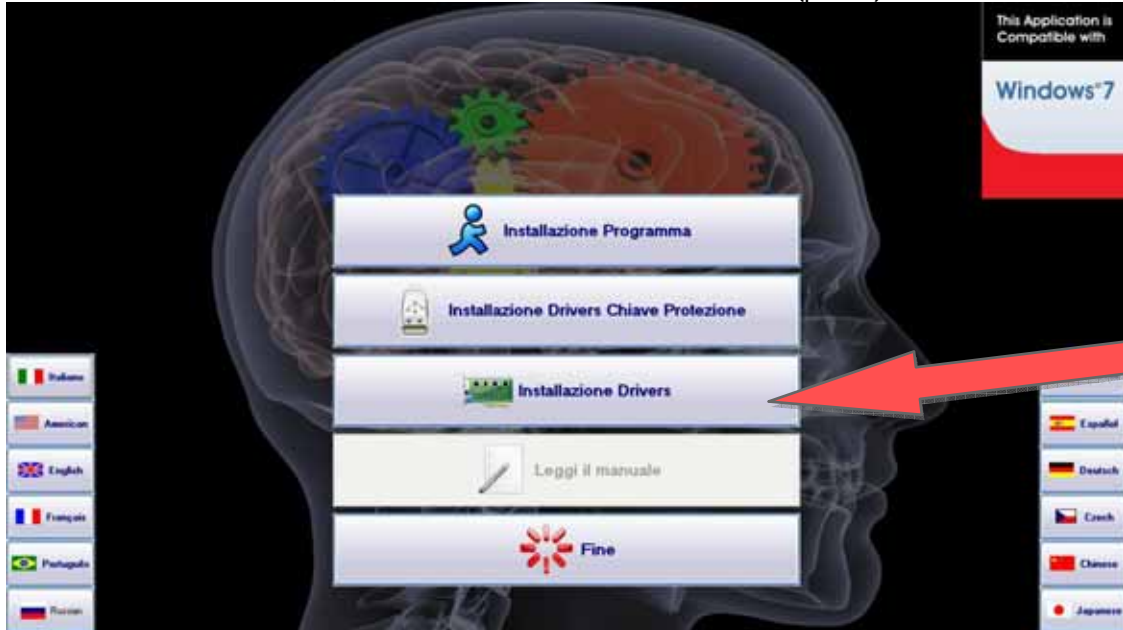
pic. 37

The operative system configuration for the correct sensor operation now is completed.

6. RX4 HARDWARE INSTALLATION WITH WINDOWS VISTA 32 o 64 Bit

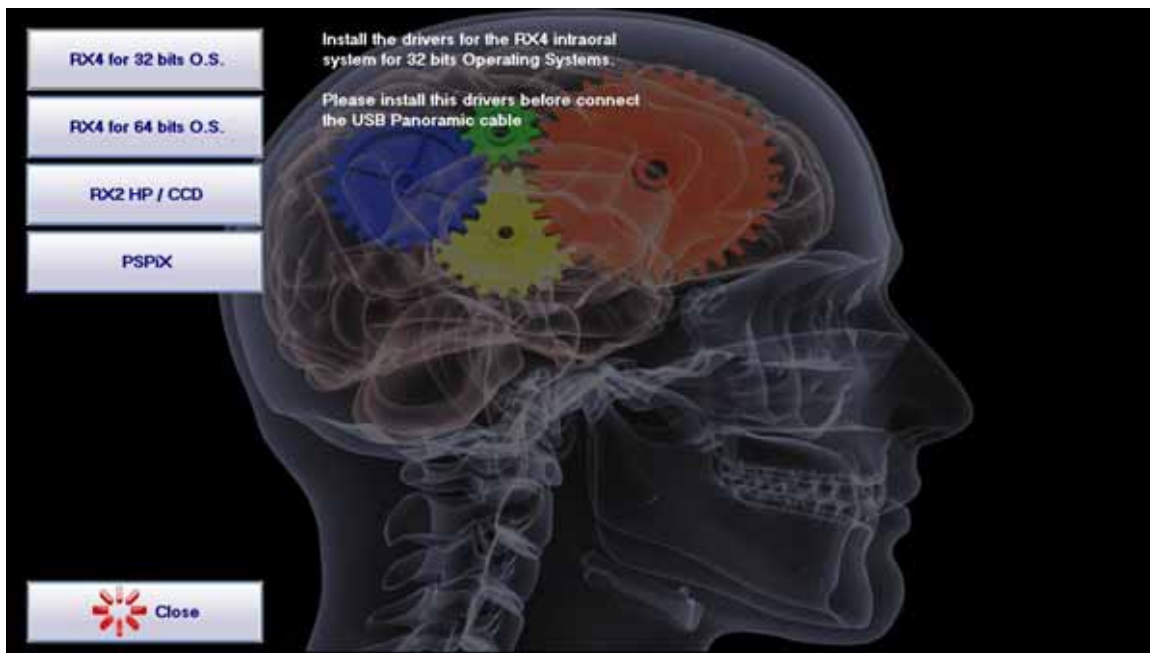
(Some windows may be different if you use a PC or a laptop)

If CSN OS cd is still inside the pc, you should start the **Setup** otherwise please put it into the pc and wait for the installation window, then click on **"Drivers Installation"** (pic.38).



pic. 38

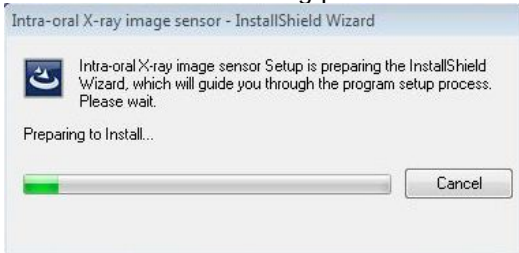
Then select the driver according to the operating system, if **32 bit** or **64 bit**.



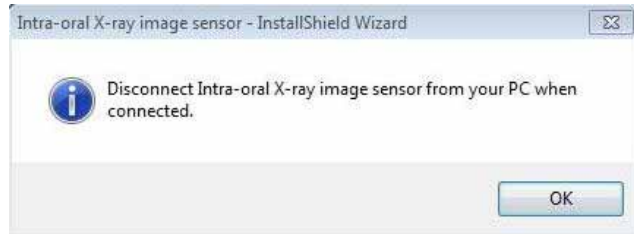
pic. 39

In this way you start the sensor drivers installation.

You will see first a loading procedure window (pic. 40), then you have to click on **OK** (pic.41)



pic. 40



pic. 41

After having clicked on **OK** the real driver installation procedure will start, in this case click on "**Next >**"

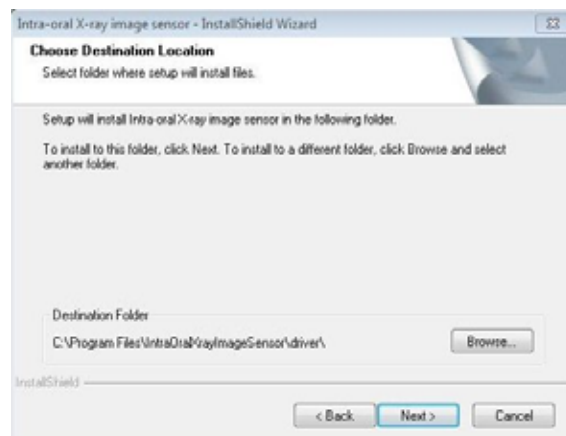


pic. 42

Then choose "**Yes**" (pic. 43) and in the following window click on "**Next >**" (pic. 44)



pic. 43

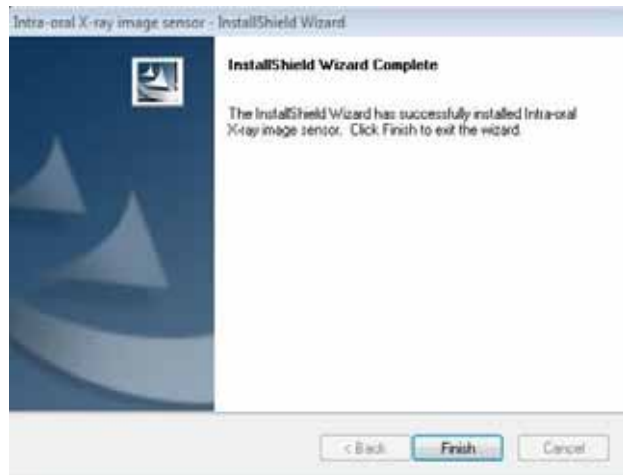


pic. 44

Wait for the end of installation (pic. 45) and then click on **"Finish"** (pic. 46)



pic. 45



pic. 46

Now it is possible to connect the sensor to the USB port of the PC (pic. 47)



pic. 47

Wait until the system automatically recognizes the device inserted (pic.48).

At the end of the process the name of the peripheral will appear (pic.49).



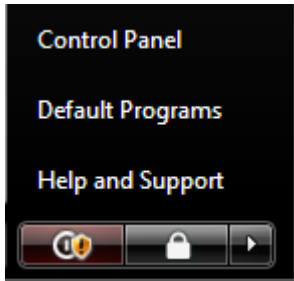
pic. 48



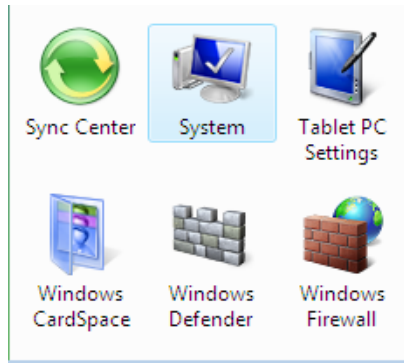
pic. 49

Once the sensor drivers are installed, it is necessary to proceed with the configuration of the operating system to ensure efficient performances of RX4 sensor.

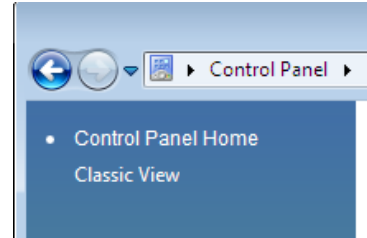
From **Start** button open the function : **Control Panel** (pic. 50), then select **System** (pic. 50a) *If the item doesn't appear click on **Switch to Category View** (pic. 50b).*



Pic. 50

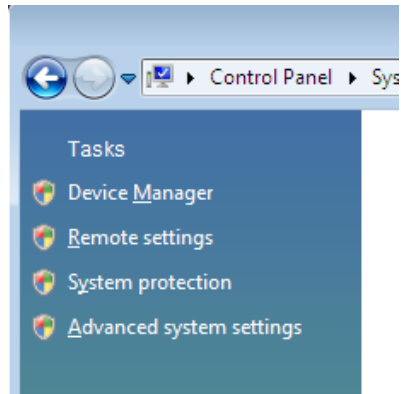


Pic.50a



pic. 50b

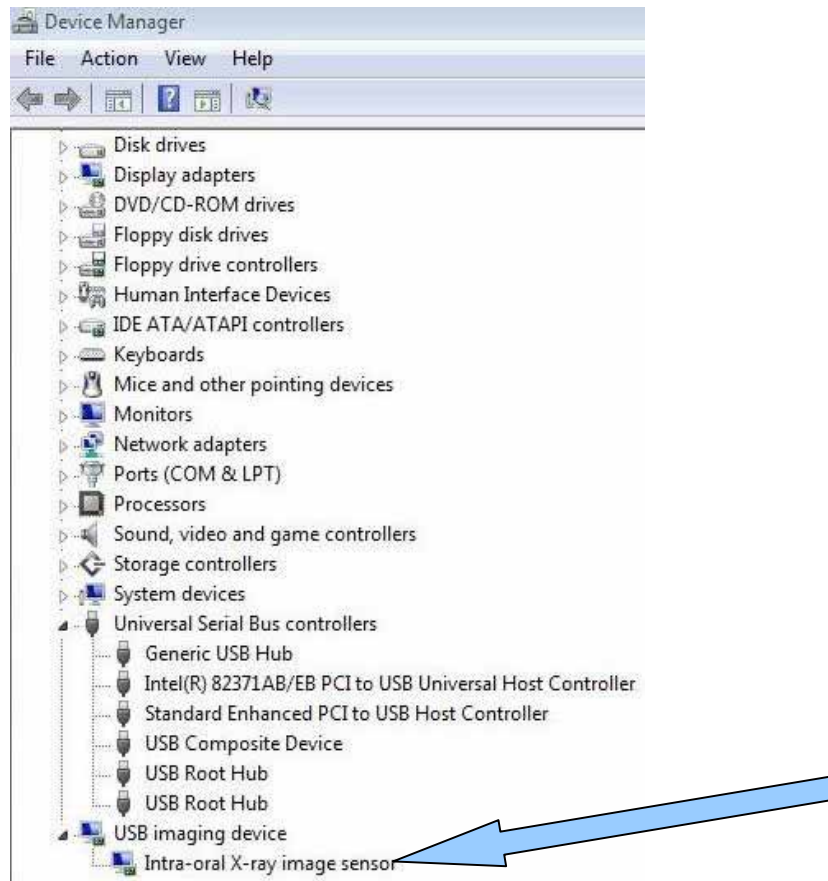
Now select **Device Manager**.



pic. 51

A new window will now appear.

In the bottom part of the peripheral list you will see a category named **USB Imaging device**; inside it will have the name with which you installed the sensor **Intra-oral X-ray image sensor** (pic. 52). (if the item is put in evidence by a yellow question mark, the driver is not correctly loaded, install it again, following the “Sensor Installation Manual”).



pic. 52

Now the Hub USB and the trademark of the USB ports are displayed.

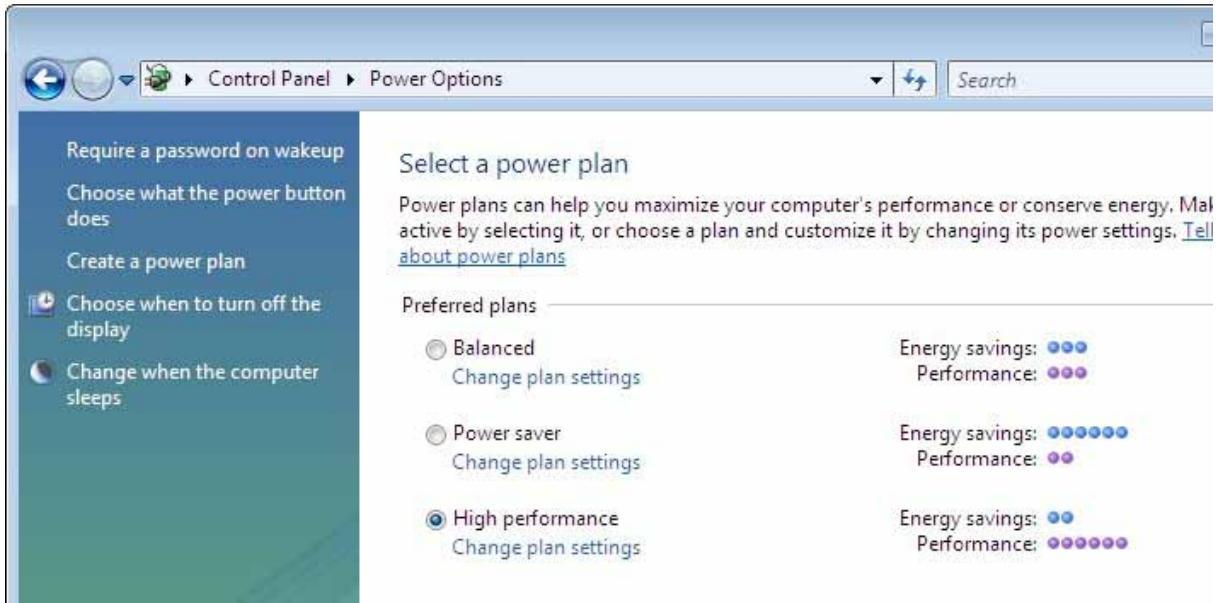
With reference to the trademarks of the USB ports, the certified ones for a proper operation of the sensor are the Intel and Via Tech; if they are Ali, Open or Sys maybe the sensor must be used with supplied HUB USB.

Now close all the open windows and go back to the function Control Panel described in the first page of this manual. Select Power Options.



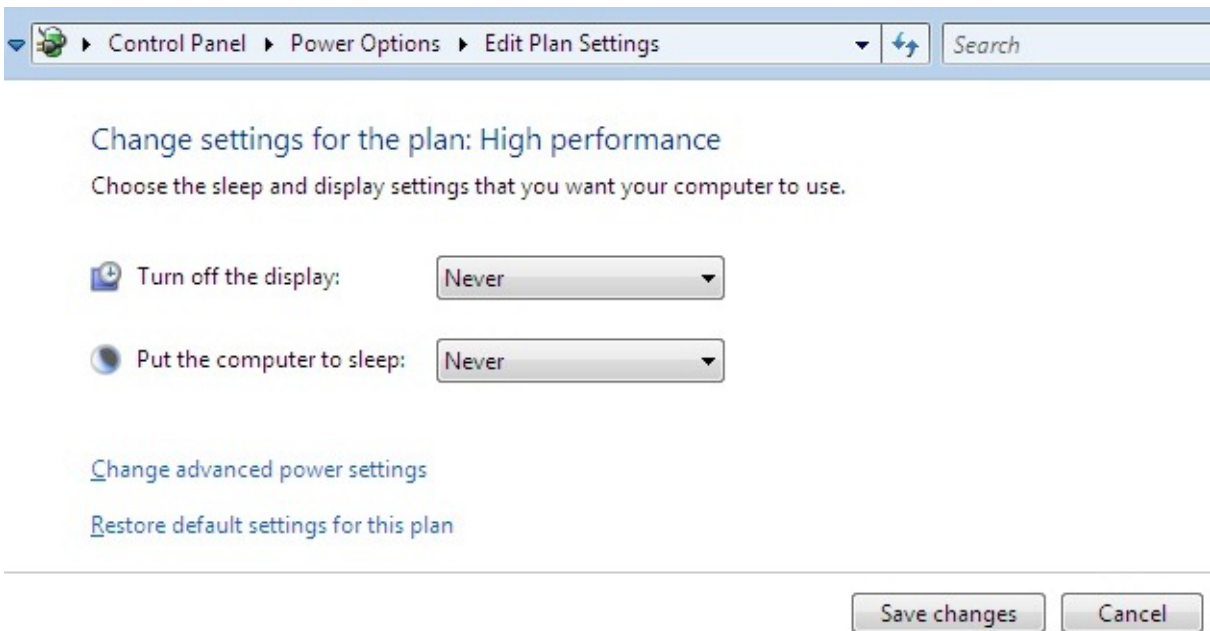
pic. 53

In the following window select **“Change plan settings”**.



pic. 54

Now select **Never** where marked and then click on **Save changes**.



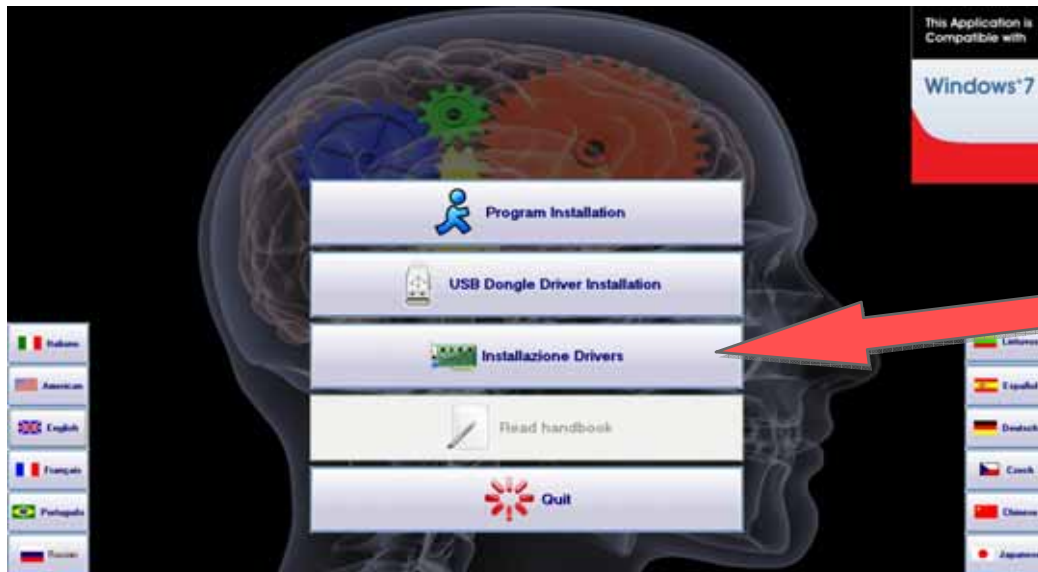
pic.55

The configuration of the operating system for the correct sensor functioning is now concluded.

7. RX4 HARDWARE INSTALLATION WITH WINDOWS 7 - 32 or 64 bit

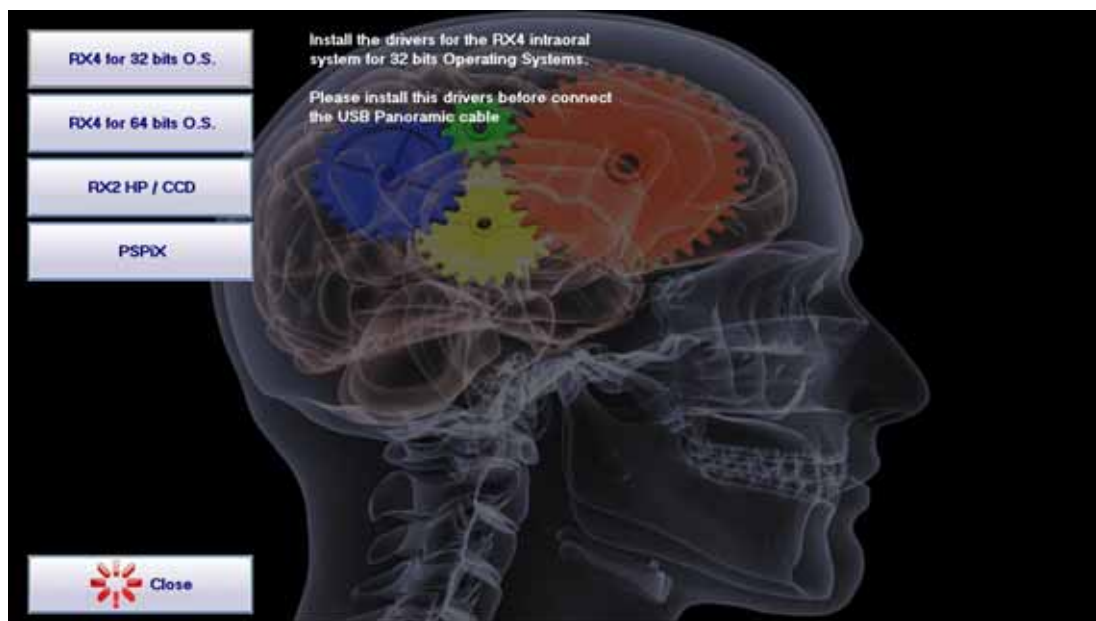
(Some windows may be different if you use a PC or a laptop)

If CSN OS cd is still inside the pc, you should start the **Setup** otherwise please put it into the pc and wait for the installation window, then click on "**Drivers Installation**" (pic. 56).



pic. 56

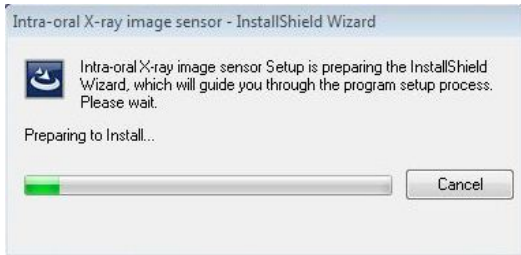
Then select the driver according to the operating system, if **32 bit** or **64 bit**.(pic. 57).



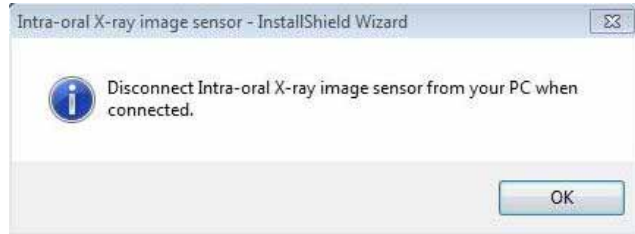
pic. 57

In this way you start the sensor drivers installation.

You will see first a loading procedure window (pic. 58), then you have to click on **OK** (pic. 59)

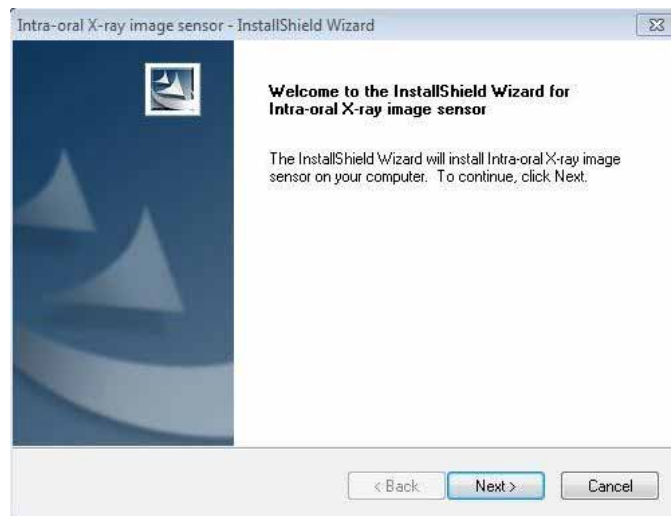


pic. 58



pic. 59

After having clicked on **OK** the real driver installation procedure will start, in this case click on **"Next >"**

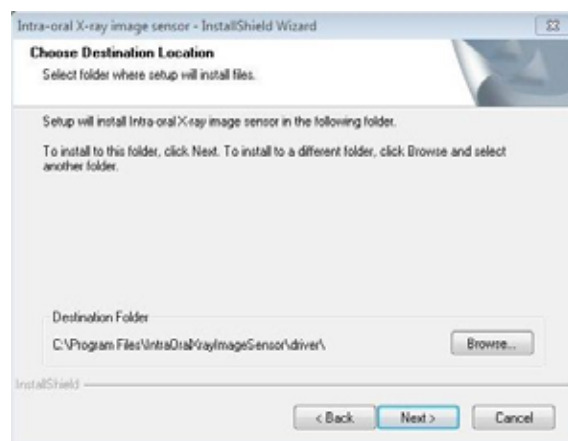


pic. 60

Then click on **"Yes"** (pic. 61) and **"Next >"** in the following window (pic. 62).

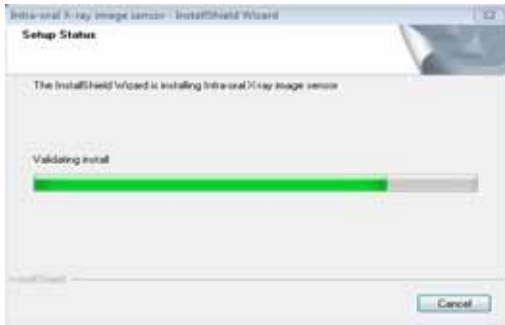


pic. 61

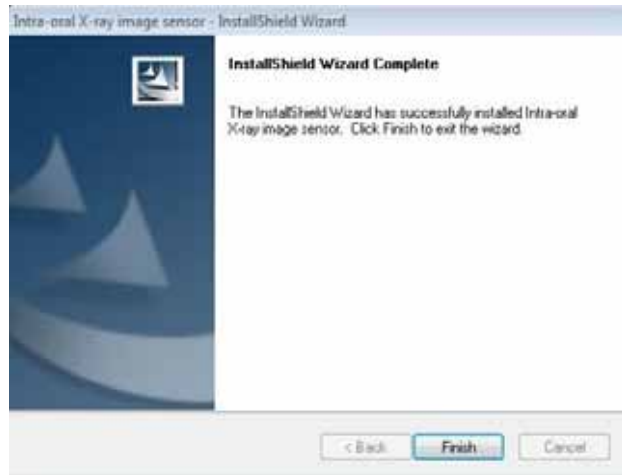


pic. 62

Wait for the end of installation (pic. 63) and then click on **"Finish"** (pic. 64)



pic. 63



pic. 64

Now it is possible to connect the sensor to the USB port of the PC (pic. 65)



pic.65

Wait until the system automatically recognizes the device inserted (pic. 66).
At the end of the process the name of the peripheral will appear (pic. 67).



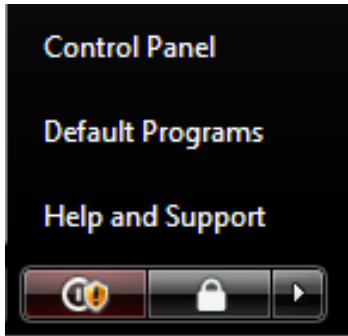
pic.66



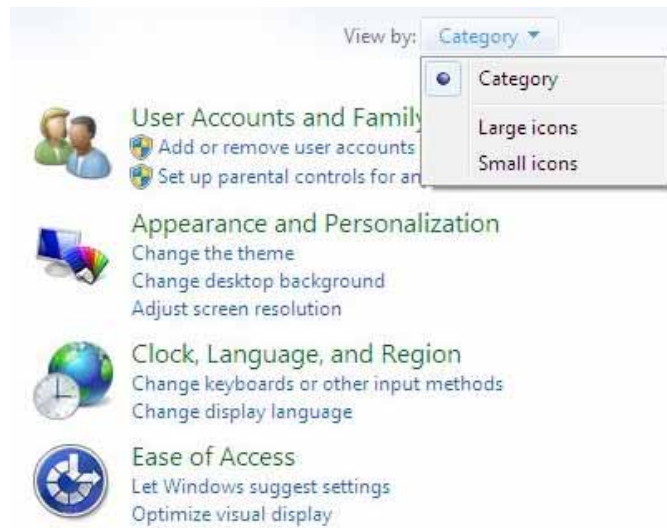
pic.67

Once the sensor drivers are installed, it is necessary to proceed with the configuration of the operating system to ensure efficient performances of RX4 sensor.

From **Start** button open the function : **Control Panel** (pic. 68), then select **System**. If the item doesn't appear click on right top on category **View by: small icons** (pic. 69).

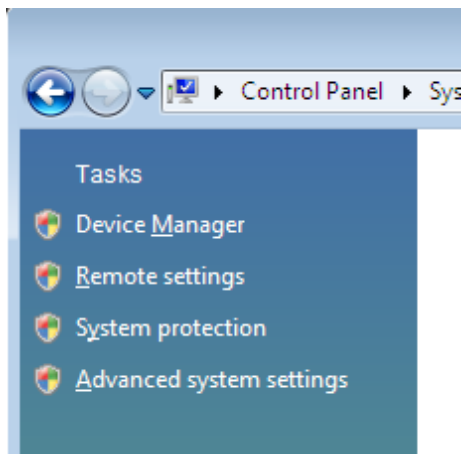


pic.68



pic.69

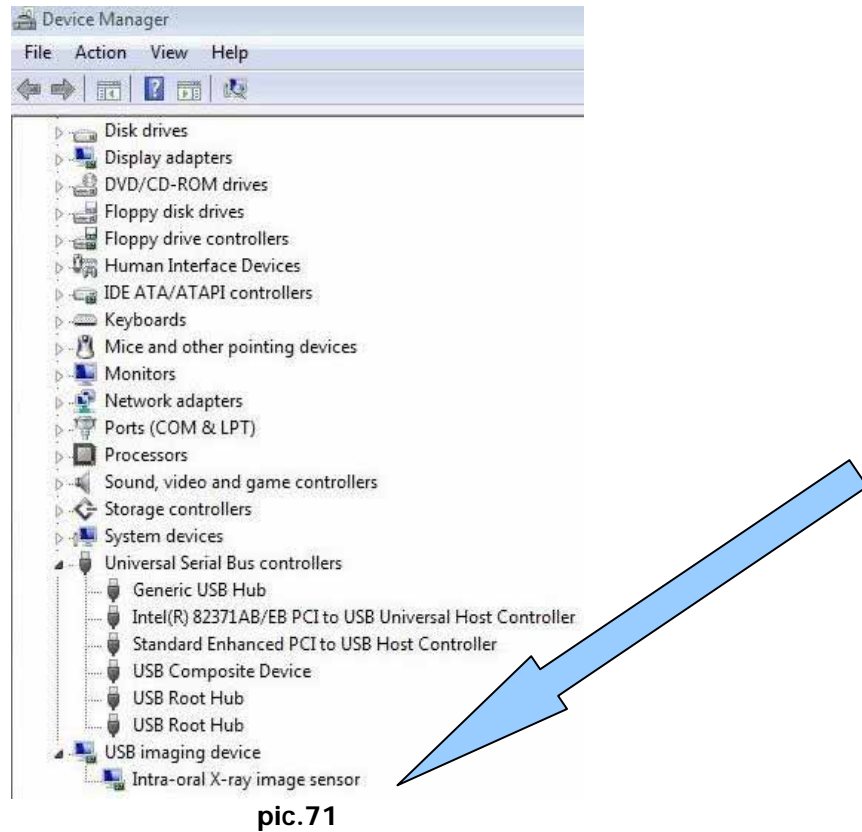
Now select **Device Manager** in the left top part.



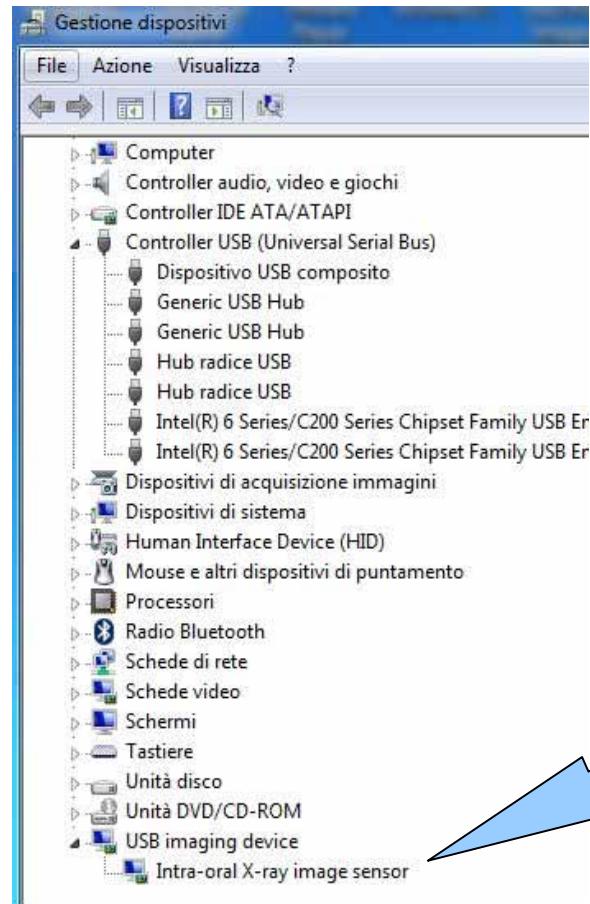
pic.70

A new window will now appear.

In the bottom part of the peripheral list you will see a category named **USB Imaging device**; inside it will have the name with which you installed the sensor **Intra-oral X-ray image sensor** (pic. 71). (if the item is put in evidence by a yellow question mark, the driver is not correctly loaded, install it again, following the "Sensor Installation Manual").



From the same menu, select the arrow the left of the item **Universal Serial Bus controller** and a new item will appear (pic. 72).



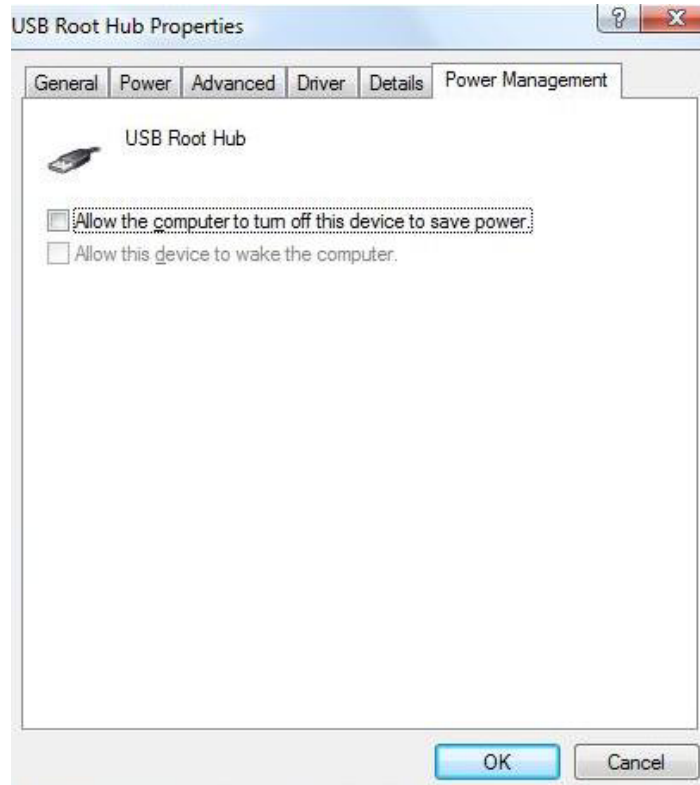
pic.72

Now the Hub USB and the trademark of the USB ports are displayed.

With reference to the trademarks of the USB ports, the certified ones for a proper operation of the sensor are the Intel and Via Tech; if they are Ali, Open or Sys maybe the sensor must be used with supplied HUB USB.

Among the items, the item **USB Root Hub** will appear several times, double click on that item and select power saving.

Now deselect **Allow the computer to turn off this device to save power**, then click on **OK** (pic. 73).
This operation must be repeated for all the **USB Root Hub** items.



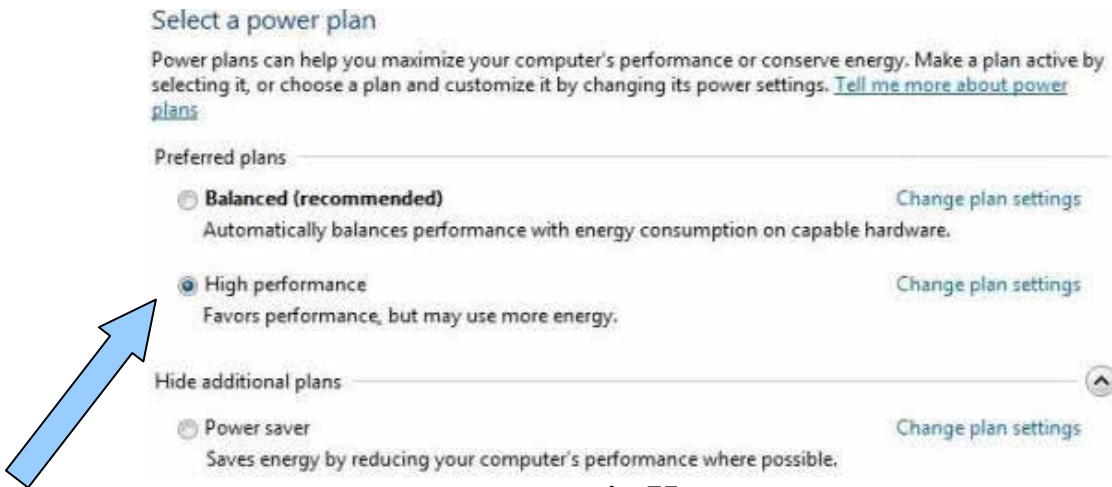
pic. 73

Now close all the opened windows and go back to the **"Control Panel"** described in the first page of this manual. Now select **"Power Options"** (pic. 74).



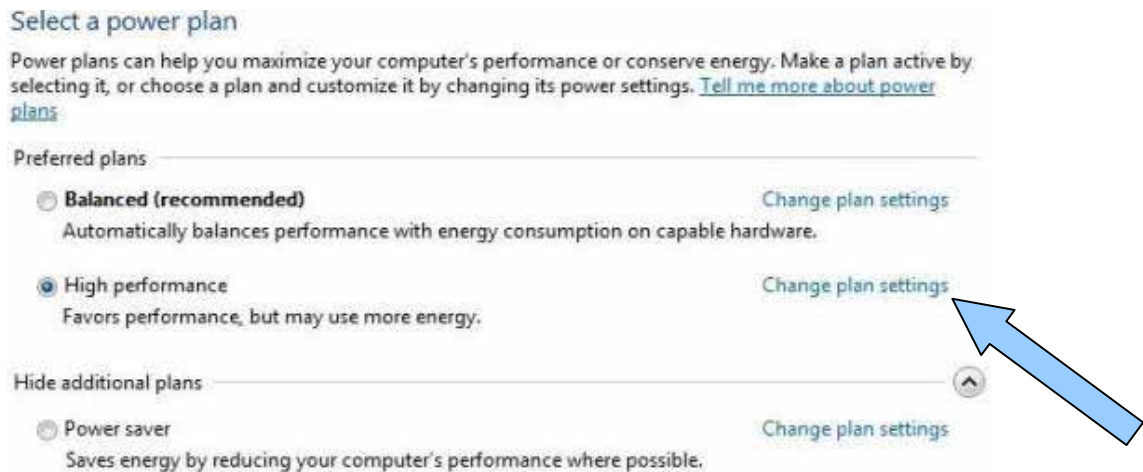
pic. 74

In the following window select **Change Plan Settings**, in order to view the combination High Performance.



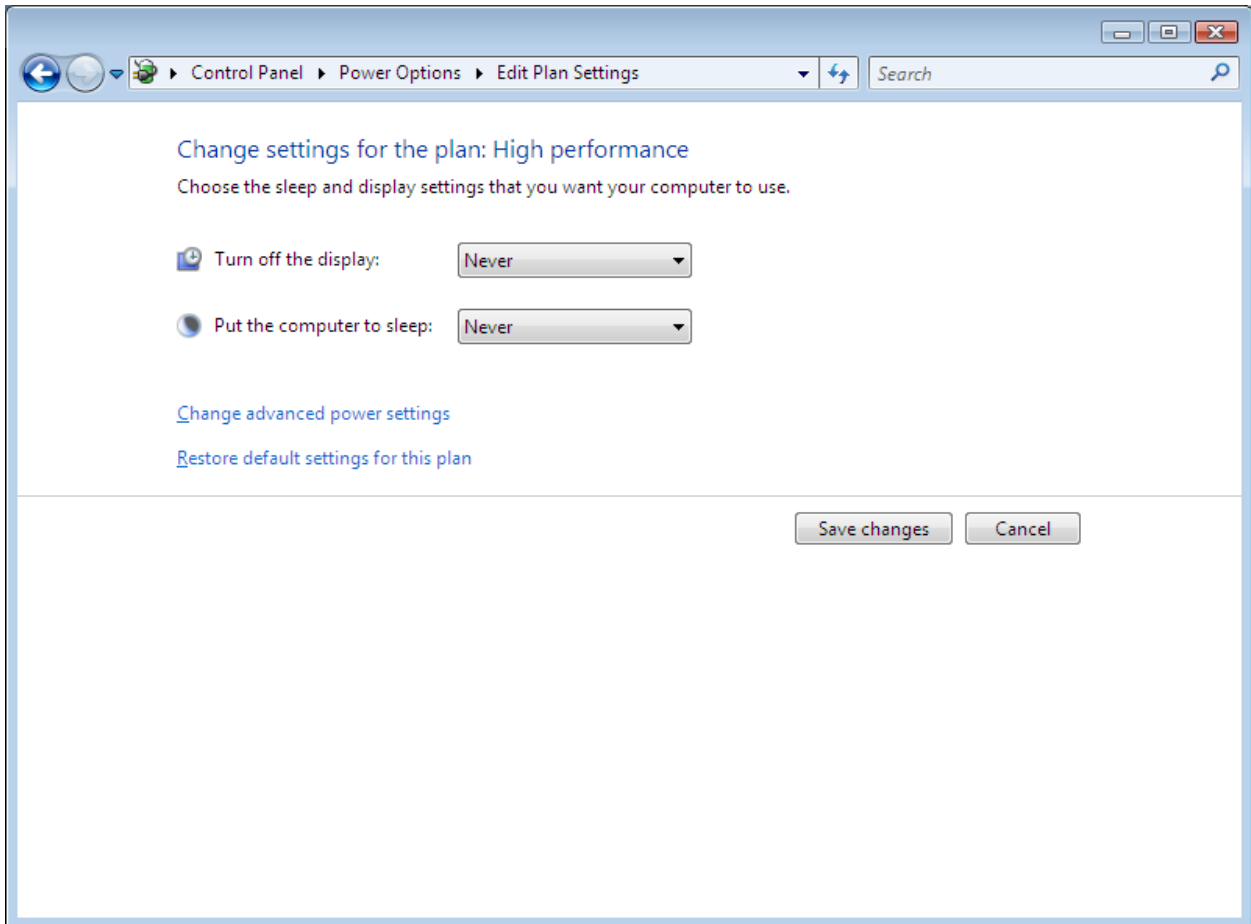
pic. 75

Then select **High Performance** and go to **Change Plan Settings**.



pic.76

Now select **Never** where marked and then click on **Save changes**.



pic.77

The operative system configuration for the correct sensor operation now is completed.

8. PROGRAM CONFIGURATION AND USE OF RX4

Click on **"Start"**, then **"Programs"**, **"CSN OS"** and then **"CSN OS"** again to run the program (or click twice on **"CSN OS"** icon on the desktop).



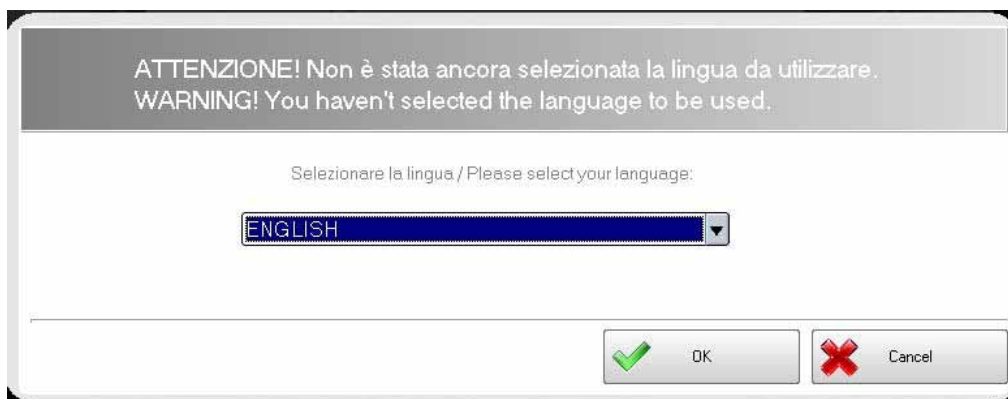
pic. 78

At the first run the program will show a window of first installation regarding the destination disk for the archives; click on **"OK"** and wait.



pic. 79

Now the software will ask you to select your language for the software start (not all the languages indicated are available; in case of a language not available, the software will automatically start in English). Click on **"OK"** to go with the installation.



pic. 80

Immediately afterwards another window will appear, regarding the finally directory of the patient and images archives; click on **"Yes"** and wait.



pic. 81

After this operation, an access verification window appears. Select **"Admin"** user and insert the default password **12345678**.
Now click on **Access**



pic. 82

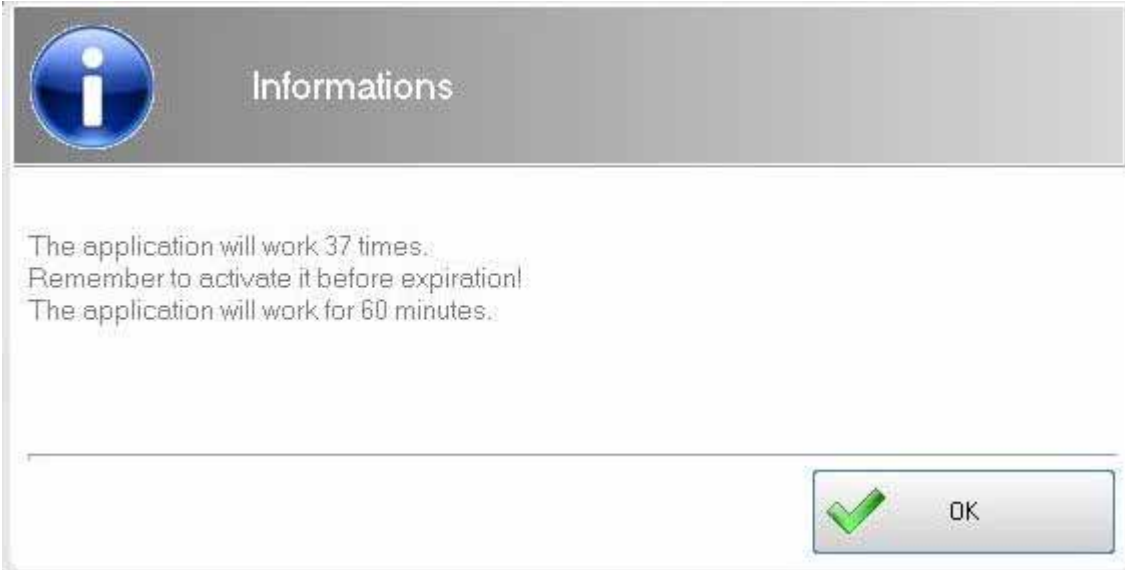
Now, a new window asks you to edit a new password and then click on "OK".



The dialog box has a header with a key icon and the title "Cambio della password". Below the header, it says "The password is expired. Please insert a new one password." There are three input fields: "Old password:" containing "*****", "New password:" containing "*", and "Confirm password:" containing "*". To the right of the input fields are two buttons: "Confirm" with a green checkmark icon and "Cancel" with a red X icon.

pic. 83

Edit again the new password and click on "Ok" and then click on **Access**.
After the password editing, the software informs it is necessary to follow the software registration procedure. Click on **OK** in the demo reminder window.



The dialog box has a header with an information icon and the title "Informations". The main text area contains the following text: "The application will work 37 times.", "Remember to activate it before expiration!", and "The application will work for 60 minutes.". At the bottom right, there is an "OK" button with a green checkmark icon.

pic. 84



IMPORTANT: NOTICE FOR REGISTRATION OF THE PROGRAM

When you have finished the installation of the program, you need to activate the software.
For the activation of the software you need to connect the sensor to the computer, and charge the driver of the sensor (previous chapter)

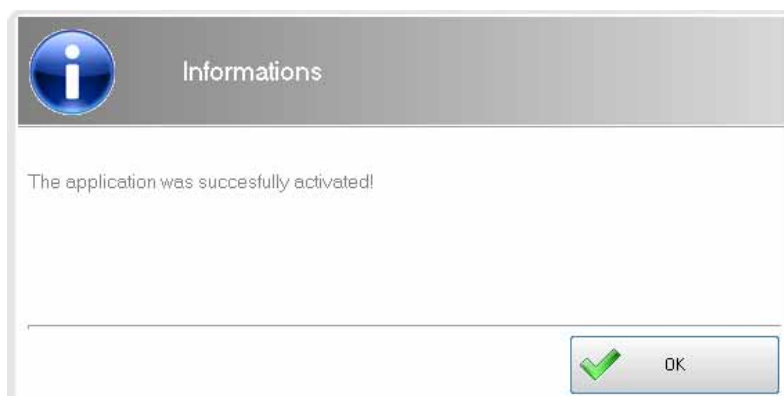
When you have click on the **OK** button appears a new windows where you must write the name of the doctor (in the first row) and the address of the dental cabinet (second row) will appear.



pic. 85

If the sensor is connected to the computer, and the driver is charged click on the RX4 button to activate the license.

If the activation process is done a new window, with the successfully activation appears.
Click **OK** and the software is unlocked.

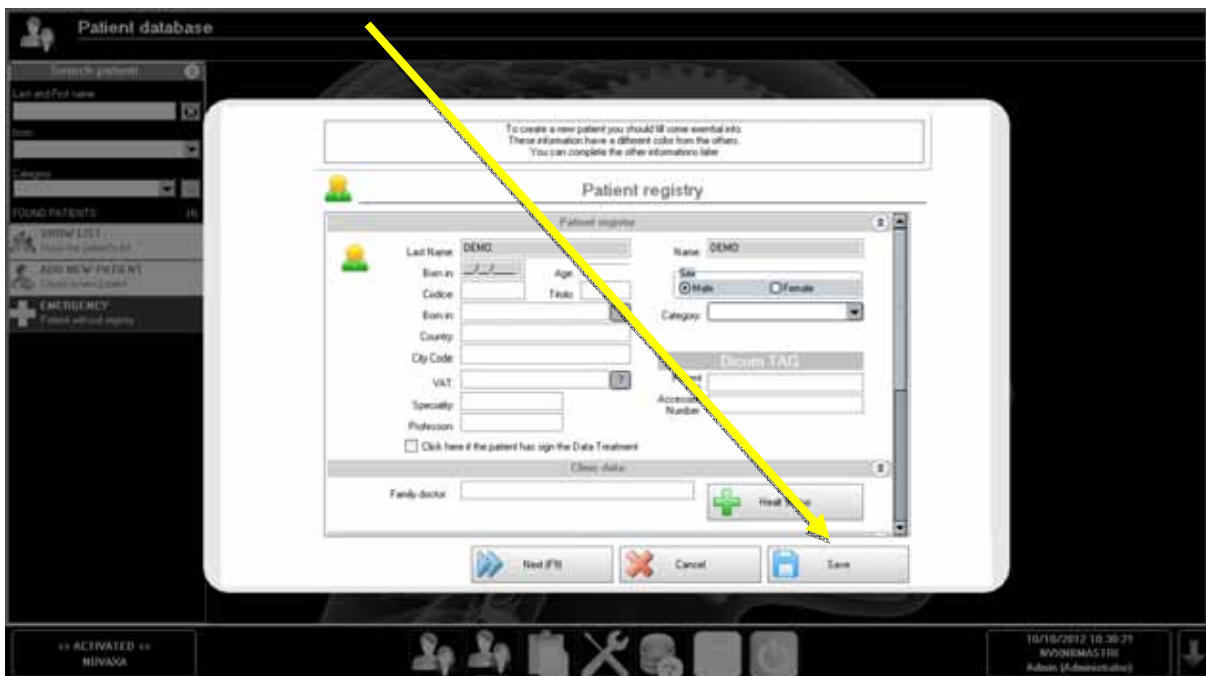


From the Main menu, select the **Patient List** function on the lower side.



pic. 87

In this new window, select **"ADD NEW PATIENT"** in the left side; edit the patient name and surname, then click on **Save**.



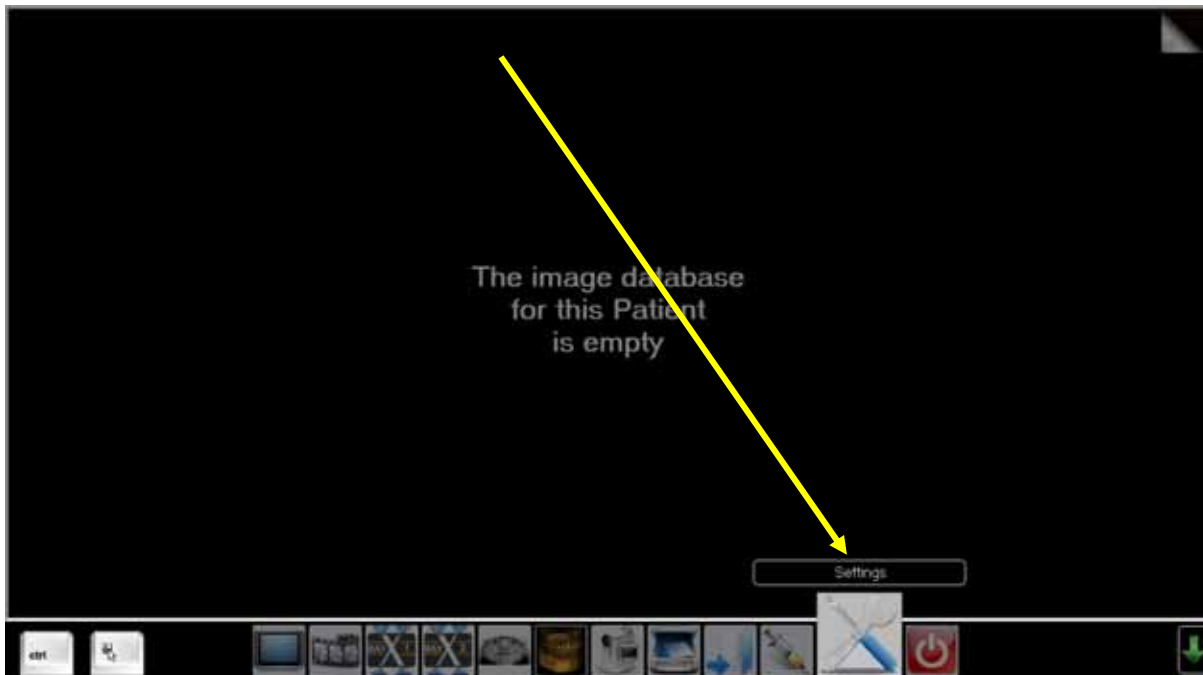
pic. 88

After the patient registration, please select it from the function **SHOW LIST** and then click on **Open The images**.



pic. 89

Now we're ready to configure the RX4 sensor in the program. From the new window please select the "**Setting**" function on the right lower part of this screen view.



pic. 90

Then select **RX4** from **Intraoral RVG1** in the left part
Do not change the default data.

Threshold (incident): 450
Threshold (end): 0
Integration: 100



pic. 91

Click on **Save changes** to save everything.

Now you are ready to acquire images, click on lower button **RAY X 1**.



pic. 92

In the lower left part of the screen, the sensor mode window appears. A red light indicates that the sensor isn't connected or the drivers aren't correctly installed. A green light indicates the system is ready to acquire the X-Ray.



pic. 93

Now you are ready to use radiovideografy sensor RX4.

For the different program functions, please refer to the "User Manual" enclosed in the installation CD-ROM packaging.