

Firmware upgrade procedure

This step by step guide has been designed to show users of the Spirolab spirometer how to upgrade the firmware on the device.

1 Download Winspiro Pro software

The Winspiro Pro software will need to be downloaded and installed onto a PC. Download the software using the link below. Please note you must be using v7.0 or later.

<http://www.spirometry.com/download.asp?path=MIRwinspiroPRO/setup.zip>

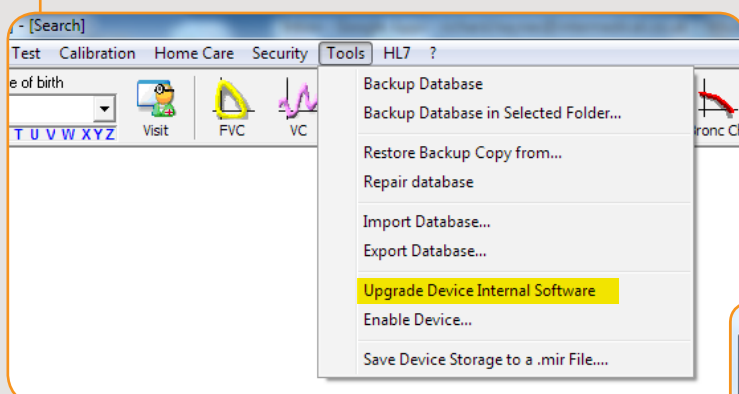
2 Install Winspiro Pro software and connect the Spirolab to the PC

Run the downloaded set up file, following the prompts to install the Winspiro Pro software. *Please note, you may need to obtain administrator rights to install the software.*

Once the software has been installed, open the Winspiro Pro software. Connect the Spirolab to the PC using the USB cable that was originally supplied with the device. This would have been packed in the front of the grey carry case it was supplied in.

Please note: On first time use, the drivers should automatically install and will take up to 2 minutes.

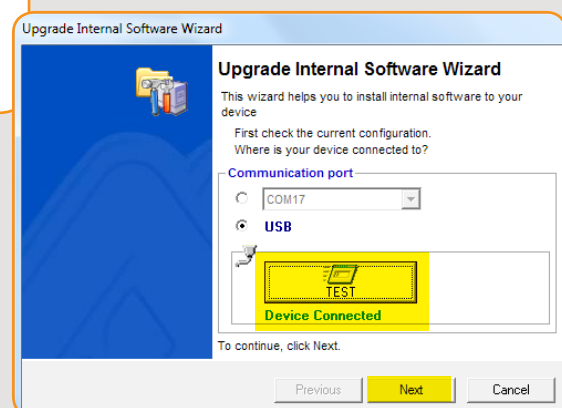
3 Upgrading the device firmware



On the box that will pop up select "TEST" and you should see the words "Device Connected" in green under the "TEST" box. Once you see this press "Next".

Once the Spirolab is connected and the drivers have been installed correctly, the prompt "USB external control" will display on the screen of the Spirolab.

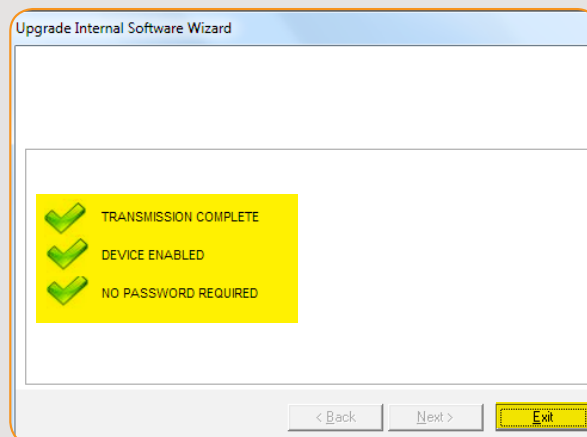
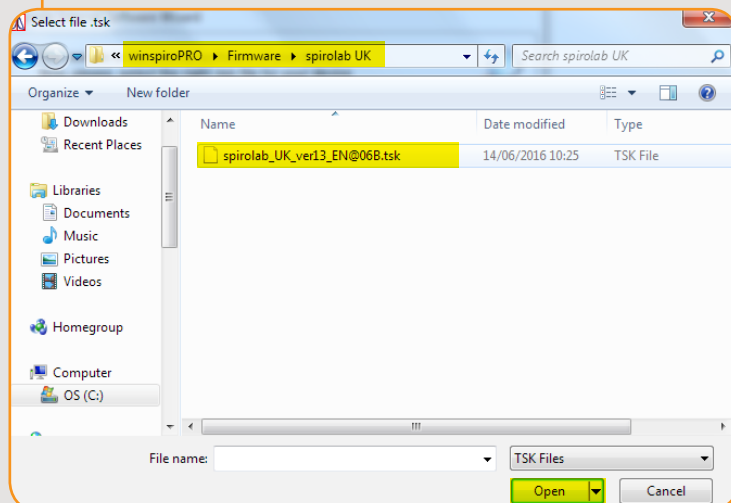
In Winspiro Pro, navigate to the tools menu and select "Upgrade device internal software"



Procedure continues overleaf...

3 Upgrading the device firmware (Continued)

On the next box that appears choose "Select manually a new version to install" and press "Next".
 Navigate to the "Spirolab UK" folder and select the desired version of the TSK file and press "Open".



The firmware upgrade should now be in progress and will automatically update the Spirolab.

Please note: The device may switch on and off again during the upgrade process. This is normal.

Do not disconnect the device or operate the power button during the upgrade process.

Once all three green ticks are displayed in the upgrade status box on your PC (See screenshot above) the process is complete. Press "Exit".

You may now safely disconnect the Spirolab from the PC.