



**RIGEL MEDICAL**

GMC-INSTRUMENTS GROUP

## How can I upgrade the firmware on the Rigel Multi-Flo?

The Rigel Multi-Flo is designed to allow service agents and users to easily upgrade the firmware by using the internet to download the latest firmware. The firmware can then be installed using a USB stick.

The required upgrade firmware can be found at [rigelmedical.com](http://rigelmedical.com) website.

Note: When downloading firmware from the Rigel medical website, the downloaded file is zipped and therefore you must unzip this on your PC then copy ONLY the file with extension; .tar.bz2.

### **Equipment required:**

- Multi-Flo
- Multi-Flo Manual
- USB memory stick.
- Multi-Flo (Multi-Flo\_firmware\_update\_AXX.tar.bz2

Note: XX is any number which varies with each new release.

- 1) Refer to the user manual to identify the F1 and F2 function keys.
- 2) Copy the firmware onto a USB stick in the correct file format (tar.bz2).
- 3) Press and hold F1 for 15 seconds, while switching on the Rigel Multi-Flo
- 4) Follow on screen instructions, Press F2.
- 5) Insert the USB memory stick containing a single copy of the firmware

upgrade into the Rigel Multi-Flo USB port.

Note: Please make sure that there is no other files on the USB stick

6) Press F1; wait while the firmware is updated.

Note: If the USB stick is large i.e. more than 4 GB it might take few seconds for the Multi-Flo to see it so be a little patient before you press the update button.

7) The Rigel Multi-Flo will then show the message:

Update complete, restart the system or press F1 to return to the main screen

NOTE: There is only one update file which is set up to update up to four channels. Therefore if you have only a two channel Multi-Flo you will need to check that channels 1 and 2 has updated successfully. Any unused channels will come up with a failed to update Pic[x] message for the missing channel(s) which can be ignored.

8) Switch off the Rigel Multi-Flo

9) Remove USB memory stick

10) Restart the Multi-Flo in normal mode

Note: To obtain updates when the latest firmware is available, the Rigel Multi-Flo will need to be registered. This will also provide automatic upgrade alerts to the user.

If you require more help, please contact us at  
<https://www.seaward.com/gb/enquire/>.