

## Firmware Upgrade Procedure H25IR Pro

As updates to the instrument's firmware become available, the instrument can be upgraded by using the procedure below.



**NOTE:** The firmware upgrade procedure is sometimes referred to as *flashing memory*.

**Table 0-1. Items Required for Upgrading Firmware**

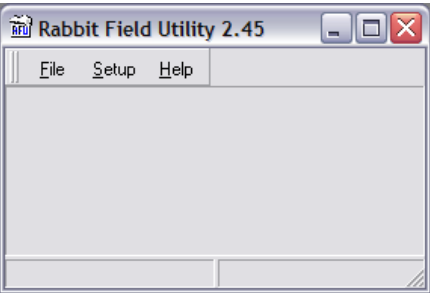
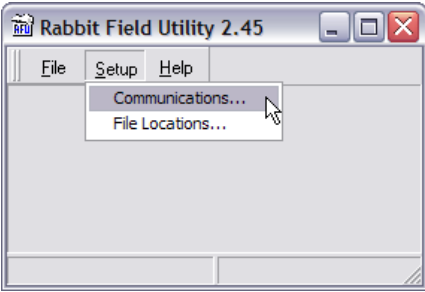

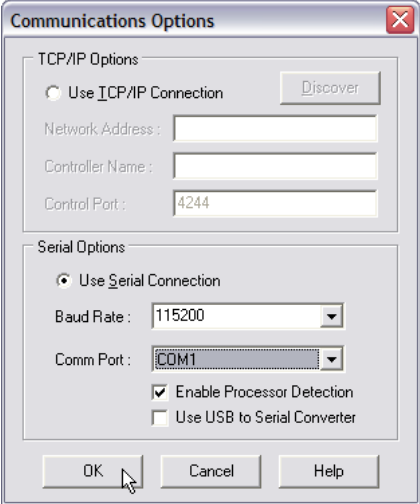
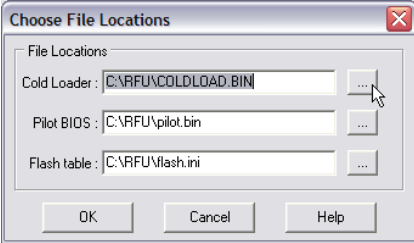
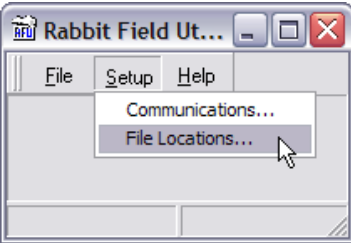
Item	Description
1	9-pin-Female to 9-pin-Male Serial Cable (P/N 104-4027)
2	Flash Utility Software and Latest Firmware Image File (downloaded from Website <a href="http://www.mybacharach.com/downloads.htm">http://www.mybacharach.com/downloads.htm</a> )
3	Personal computer running Windows® 95/98/2000/NT/XP/Vista/7
4	An open COM port on the computer


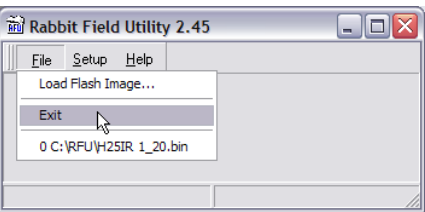


**NOTE:** USB-to-Serial adapters *may* work, but are unsupported.

**Table 0-2. Firmware Upgrade Procedure**

Step	Description
1	Connect one end of a "9-pin female to 9-pin male" serial cable to the instrument's RS-232 connector located at the back of the instrument.
2	<p>Connect the other end of the cable to an open COM port connector on the computer (it may be necessary to use a 9-pin to 25-pin adapter to make the computer connection).</p> <hr/> <p> <b>NOTE:</b> COM1 is the default port used by the Flash Memory Program. If COM1 is already in use by another device, then connect the instrument to the next available COM port. The software will need to be reconfigured as described in Step 8 to use this port.</p> <hr/>
3	<p>Press and hold the <b>ⓘ</b> button on the front keypad and Turn ON the instrument. After the unit beeps quickly several times release the <b>ⓘ</b> button. Pressing the ENT key will place the instrument in firmware upgrade mode.</p> <hr/> <p> <b>NOTE:</b> The following steps assume that the operator is familiar with the Windows Operating System, and is knowledgeable in creating folders, copying files, and navigating the file system using Windows Explorer. If necessary, refer to the Windows help files for information on performing these operations.</p> <hr/>
4	Create a folder on the computer's hard drive named "C:\RFU" (Rabbit Field Utility).
5	Copy the flash utility software and the latest firmware image file ( <i>xxx.bin</i> – where "xxx" is the name and version

Step	Description
	number of the file) into the folder created in Step 4.
6	<p>From the C:\RFU folder, run the flash memory program by double clicking the file <i>rfu.exe</i>.</p> 
7	<p>Select <i>Setup &gt; Communications</i>.</p> 
8	<p>Under “Serial Options”, select <i>Use Serial Connection</i>. Then set the Baud Rate to <i>115200</i>, and select <i>Enable Processor Detection</i>.</p> <hr/> <p> <b>NOTE:</b> COM1 is the default COM port. If necessary, change the COM port to match the port that the instrument was connected to in Step 1.</p> <hr/> <p>Click the OK button.</p> 
9	<p>Select <i>Setup &gt; File Locations</i> and verify that the coldload.bin, pilot.bin, and flash.ini files are all located in the C:\RFU folder.</p>
10	<p>Click <i>OK</i> if these files are in the correct folder. If necessary, use the browse buttons in the Choose File Locations dialog box to locate each of these files.</p>  
11	<p>Drag and drop the firmware file onto the program window. A plus sign (+) indicates the file is ready to copy. Release the mouse and drop the firmware file onto the program window.</p>

Step	Description	
12	A progress-dialog box will appear during the flashing process, and will disappear when the flashing process is complete.	
13	When flashing is complete: <ul style="list-style-type: none"> <li>• Exit the flash program</li> <li>• Turn OFF the instrument</li> <li>• Remove the serial cable.</li> </ul>	
14	The new firmware will be active the next time the instrument is turned on. This can be confirmed by checking the firmware revision listed on the startup splash screen.	