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VideoLink 1690 Firmware Upgrade Instructions

The firmware in your VideoLink 1690 is like the operating system in your computer—it instructs the RGB Spectrum VideoLink 1690 in all of its operations.

Firmware can be easily updated in the field via the RS-232 serial port.

If updated firmware has been published, the file can be downloaded from the RGB Spectrum web-site, in the [“Support”](#) section.

The firmware is also available on disk directly from RGB Spectrum.

Instructions and release notes accompany the update file.

Required for the procedure:

1. A computer or capable of serial communications at 115,200 baud rate, and serial cable for connection to the RGB Spectrum VideoLink 1690.
2. Current firmware update file and update instructions.
3. A terminal emulation program—such as HyperTerminal (Version 6.3 or higher) or Procomm software.

Do not proceed to update firmware without these three items !

UPDATING SYSTEM FIRMWARE

1. Set VideoLink 1690 baud rate to 115200

From the serial port itself, type "baud 115200"

Or using the front panel, press the Menu button, then select "Miscellaneous", then use the arrow keys to select "Serial Port", then "Baud Rate", then "115200" (pressing the "Select" button to confirm each choice).

2. Open HyperTerminal and set properties as follow:

-Bit per second: 115200

-Data bits: 8

-Parity: None

-Stop bit(s): 1

-Flow control: Xon/Xoff

3. From the keyboard, type "help" and press the "Enter" key.

This should print out a complete command list.

If it does, continue, if not re-check the baud rate of both devices.

4. Turn the VideoLink 1690 off and back on while pressing the Esc key to interrupt the booting process and go into the monitor mode; you should see the following message (This is an example only...exact details may vary):

ESC to Enter BootMon

FlashID: 0x00CB001F

FlashBase: 0x03000000

-----FlashBootLoader-----

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Version 2.6.0 (version will vary)

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5. Using HyperTerminal, type "update" then press Enter key.

You should see the following message

Set Terminal Transfer Protocol to Xmodem1K

Checking Flash

FlashID: 0x00CB001F

Press enter to begin, <R> to reset, or cycle power to exit.

6. Press the Enter key, it will start to print out "C's"; quickly select "Send File" from the "Transfer" menu, then select 1K Xmodem for Protocol and click the "Browse" button to select the file "vl1690_update.mdd".

Select "Open", then click the "Send" button. This step needs to be done promptly, within 20 seconds, or the process may time out. If this occurs, press the Enter key again to repeat the above step.

7. When the loading process is done you should see the following:

"Begin XModem1k Upload now.

CCCCCCCCCCCCCCC_

"Update complete."

Press enter to begin communicating with the unit, or cycle power to exit.

8. Turn the VideoLink 1690 off and on and the upgrade is completed.

If a baud rate other than 115,200 is desired for normal operation, change the baud rate as described in step 1.

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