

RGB/Videolink® 1650 Firmware Update Procedure

****Version 1.05 or later****

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RGB Spectrum

The RGB/Videolink 1650 firmware can be field updated. This is a fairly simple procedure using the unit's Primary RS-232 serial port. These instructions cover units with version 1.05 or later. For units with earlier firmware versions, contact RGB Spectrum for update instructions.

To determine the current firmware version of your unit, send the serial command "ID".

IMPORTANT - Your serial communications device must be capable of a 115,200 baud rate or you will be unable to upload the new firmware. The update file can only be sent at a 115,200 baud rate.

I. Where to Get the Firmware Update File

There are two ways to get the latest RGB/Videolink 1650 firmware:

- On diskette from RGB Spectrum
- Download from the product support page on the RGB Spectrum website.

II. What You'll Need

For this update procedure, you'll need the following items:

- A computer with a 3.5 inch floppy drive or an internet connection, and capable of a 115,200 baud rate
- Communications software (i.e. "HyperTerminal" for Windows 95/98/2000/NT/XP)
- Serial cable with proper adapter to connect from the female RJ45 jack on the RGB/Videolink 1650 to the serial communications port on your computer
- Firmware update file

III. The Upgrade Procedure

- Step 1: For the upgrade procedure, start with the following connections to the scan converter in place:
- Power cord
 - RS-232 connection at the Primary serial port

Step 2: Establish serial communications between your computer and the RGB/Videolink 1650. Communications parameters should be: 115,200 baud, No parity, 8 data bits, 1 stop bit, XOn/XOff flow control (software handshake), and 1 ms line delay. If you already have a connection open, check the parameters by looking in the FILE menu under "Properties." Under the "Connect To" ("Phone Number" Win95) tab, select "Configure" and verify the parameters. To check the line delay parameter, under the "settings" tab, select the "ASCII Setup." Set the Line delay to 1 millisecond.

Assuming both devices start communication at the default rate of 9600 bps, set the model 1650 to a 115,200 baud rate with the command "BAUDrate 115200". Next, set your computer's communication speed to 115,200.

Step 3: Send the command "UPDATEFIRMWARE"

WARNING: If you send the UPDATEFIRMWARE command and your computer is not capable of a 115,200 baud rate, you will erase the Flash EPROM and then not be able to upload the new firmware to the model 1650.

Step 4: Refer to your terminal screen. You will be prompted to confirm your request to update the firmware. Type "Y" to continue.

Step 5: You will be prompted to check that your serial communications parameters are set appropriately, and then power cycle the model 1650 off and then on again.

You should observe the unit erasing all six of its Flash EPROM sectors.

Next, a message will appear reading "Send S-record data now!". The unit is now ready to receive the firmware upgrade file.

Step 6: Place the RGB Spectrum Firmware Upgrade Diskette in your computer's floppy drive, or load the unzipped files to your computer's hard drive. The file name will be "1650Vxxx.abs", where "xxx" is the version number (e.g. 1650V109.abs is version 1.09). You may need to select the "Show All Files" option in order to see the file.

From your communications software (i.e. HyperTerminal), upload the firmware file to the 1650. To upload the file, use your communications program's

file transfer feature. For example, in Windows NT, under the "Transfers" menu, select "Send Text File", locate the 1650vxxx.abs file, and then send.

The process will take a few minutes and the only message you will see echoed to your terminal will be "Found empty Srec". This message is expected and can be ignored.

Step 7: When you receive the message "Found eof Srec" on your terminal console, the upload process is complete.

Cycle the power to the unit off and then back on for regular operation.

NOTE: The baud rate of the unit will be reset to whatever speed it was at before you sent the "UPDATEFIRMWARE" command in Step 1.

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