4View Firmware Upgrade Instructions

The firmware in your 4View is like the operating system in your computer—it instructs the RGB Spectrum 4View 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

     4View.

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 4View baud rate to 115.2K

     (Using the front panel; select the "System" menu, then select "Serial

Port", Select "Baud", then select "115.2K" (pressing the "Enter" button to confirm each selection 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 for the product.

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

4. Turn the 4View off and then back on while repeatedly pressing the Space bar 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):

    FlashID: 0x00CB001F

    FlashBase: 0x03000000

    Press any key to enter the monitor

    -------RGB Spectrum ARM7 Debug Monitor--------

    Copyright (C) for RGB Spectrum, 2002 (date will vary)

    Version 2.0.3 9 (version will vary)

    =>

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

    You should see the following messages:

    Press enter to begin, or cycle power to exit.

    Begin XModem1K Upload now.

5. Set Terminal Transfer Protocol to XModem1k

6. Press the Enter key; the terminal will start to print out "C's"; quickly select "Send File" from the "Transfer" menu, then select 1KXmodem for Protocol, click the "Browse" button and select the file "4view.mdd".

Select "Open", then click "Send" button. This step needs to be done promptly, within 20 seconds, or the process will 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 4View 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 from the front panel as described in step 1.

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