



**SUBJECT: Vista firmware upgrade for a D3**

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**PREPARED BY: Tech Support**

**OVERVIEW OF PROBLEM:** This file will show how to properly update the firmware on a D3 using windows vista as well as how to finish setting up the d3 after the update. NOTE: Updating the firmware CANNOT be done over a wireless network, you must either have the computer directly wired to the D3 with a Crossover cable or have the computer wired to the router/switch with a regular ethernet cable.

1. Put the D3 into boot mode
  - a. With the power off hold down the search and stow buttons
  - b. Turn on the power and let go of all 3 buttons at the same time
    - i. All lights should be on at this time
  - c. This will put the D3's IP address at 192.168.0.250
  - d. Change your computers IP address to 192.168.0.10 (**NOTE:** this is the process for Windows Vista if you have XP it is the same concept but not the exact same buttons or icons)
    - i. go to Start, Control Panel, and open Network and Sharing Center
    - ii. On the left side of the Network and Sharing Center will be a menu, click on "manage network connections".
    - iii. Right click on you Local Area Connection
    - iv. Select properties
    - v. highlight Internet Protocol TCP/IP version 4 and select properties
    - vi. put a dot in the box for Use the following IP address
      1. Change IP Address to 192.168.0.10
      2. subnet to 255.255.255.0
      3. No gateway
    - vii. Click OK and close out of all that.
2. Access HTML at 192.168.0.250 ( this means go into your web browser and type 192.168.0.250 into the address bar and hit enter)

- i. It will automatically come up to the upgrade firmware page
    - ii. Click browse and find the file labeled D3xxx.hex (This is the software file that was downloaded from our website or emailed to you, please make sure it is unzipped before doing this step)
    - iii. Open and then click upgrade ( this takes about 20 minutes)
    - iv. Once completed the d3 will either restart automatically or prompt you to click a button to restart the d3, do so.
3. Put the D3 back into boot mode (process listed above) for an nvclear (nvclear process is step 4)
4. In Windows Vista the Telnet function is not enabled by default. We will have to enable it before we can proceed.
  - a. Open your control panel,
  - b. Open programs and Features
  - c. select Turn Windows Features on or Off out of the menu on the left.
  - d. That will take a couple minutes to open, when it does find "Telnet Client" and click the box to enable it and hit apply.
  - e. That will take a long time to apply generally, don't worry it is working. When it is done go on to step 5.
5. Telnet into the D3 for an nvclear
  - a. hold down the windows key on your keyboard (it looks like a little flag) and then hit your "R" key on your keyboard.
  - b. That should open your Run command, type in "CMD" and click ok.
  - c. type Telnet 192.168.0.250
  - d. The DOS page (little black screen) will come up with D3Boot% or D2Boot%
  - e. Type nvclear all lower case all one word
  - f. Hit enter and it should say non volatile ram cleared
  - g. Type reboot
  - h. Once rebooted the D3 will go back to 192.168.1.250
    - i. Reset computer to obtain automatically or input 192.168.1.10 ( follow same process as listed above on step 1-D
6. Perform ucupdate
  - a. telnet into the D3 at 192.168.1.250
  - b. DOS page will come up with DATASTORM%
  - c. Type ucupdate all lower case all one word and hit enter
  - d. It should say ucupdate will start in 10 seconds..
    - i. You will not see anything happen on the DOS page at this time – close it out

7. Access the HTML at 192.168.1.250 ( Go to your web browser and type 192.168.1.250 and hit enter)
  - a. On the system status line you will see Programming mount X%
  - b. You must wait for this to complete and say system initialized before doing anything else
  
8. Reconfigure the D3 for all satellite settings and your specific IP scheme, if required, and update settings (**NOTE:** settings below are only an example your specific settings WILL be different and can be found on your modem page or through your Internet Service provider)
  - a. Go to configuration
  - b. Set Satellite System to Hughes
  - c. Set Sat Longitude to 117w
  - d. Set Freq to 1270
  - e. Update settings
  
9. Before searching a Calibrate dish must be performed
  - a. On the D3 page on the bottom left hand side click Calibrate Dish
  - b. Then click the Next button
  - c. This process will take about 5 -15 minutes in which the dish will move to Max limits in all directions and stow.
  - d. Once Stowed it will say Calibration complete, click on the finish button
  
10. Load the Sat Table
  - a. You should have a sat table file, either from downloading it from our website or from a file sent to you by one of our techs. Again you should have saved that to a location where you can find it, and if necessary make sure to unzip it before proceeding.
  - b. On the D3 page (192.168.1.250) click Import/Export on the bottom left hand side
  - c. On the bottom line for Sat Table click browse
  - d. locate the sat table that you downloaded from our site or that was emailed to you and hit open
  - e. then click IMPORT
  - f. this will take about 5-10 seconds and kick you back to the system status page.
  - g. Reboot the D3 by turning the power off for 30 seconds then back on.
  - h. Go to the D3 system status page and hit search.