



**SUBJECT: Upgrading the firmware on a D3 using a MAC**

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**PREPARED BY: Tech Support**

**OVERVIEW OF PROBLEM:** This file will show how to properly update the firmware on a D3 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 a MAC if you have Windows its the same concept but not the exact same buttons or icons)
    - i. Go to the apple menu in the top left corner of your screen and open system preferences.
    - ii. Click on the network Icon
    - iii. Make sure that location is set **Automatic** and **Built-in Ethernet** is selected from the **Show** drop-down menu and that the **TCP/IP** tab is selected.
    - iv. Set Configure to manually
    - v. for IP address type in 192.168.0.1, Subnet mask put in 255.255.255.0, leave the rest blank and click on apply now.
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. Access the d3 through terminal
  - a. open applications and open utilities and run terminal
  - b. type Telnet 192.168.0.250
  - c. The terminal page will come up with D3Boot% or D2Boot%
  - d. Type nvclear all lower case all one word
  - e. Hit enter and it should say non volatile ram cleared
  - f. Type reboot
  - g. Once rebooted the D3 will go back to 192.168.1.250
    - i. Switch computer back to obtain automatically or input 192.168.1.10 ( follow same process as listed above on step 1-D)
5. Perform ucupdate
  - a. telnet into the D3 at 192.168.1.250
  - b. Terminal 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 terminal page at this time – close it out
6. 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
7. 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

8. 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
  
9. 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 1 min then back on.
  - h. Go to the D3 system status page and hit search.