

## VEXnet System Firmware Upgrades

VEXnet devices contain internal processors and run on special software called Firmware (or Master Code). Firmware is updated periodically to provide additional functionality or fix bugs.

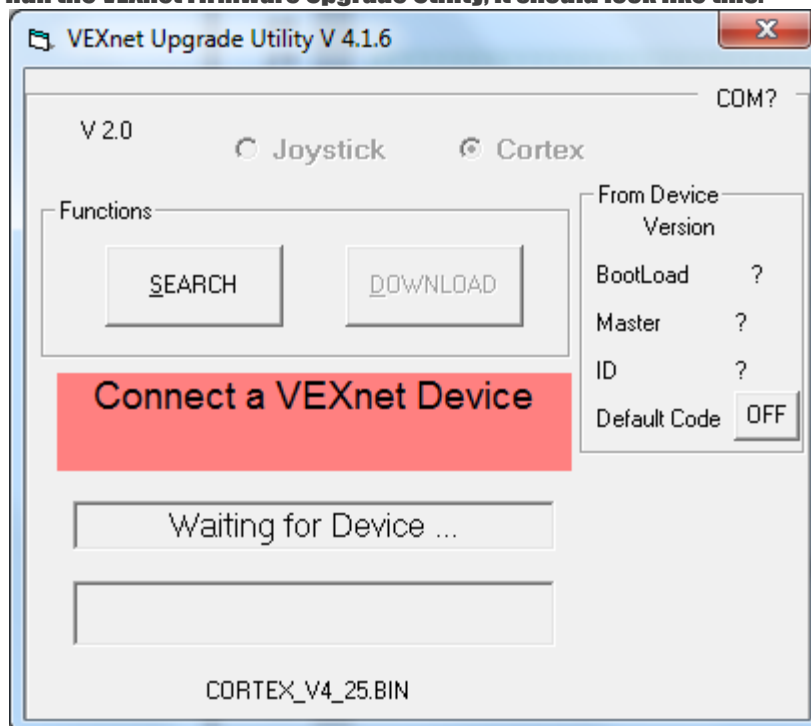
Firmware updates are required for the Cortex, Joystick and white VEXnet 2.0 Keys. If you have black VEXnet keys, you only need to update your Cortex and Joystick.

Click on the link below and download and install both the **VEXnet Firmware Upgrade Utility** and the **VEXnet Key 2.0 Firmware Upgrade Utility**

[http://www.vexrobotics.com/wiki/Software\\_Downloads](http://www.vexrobotics.com/wiki/Software_Downloads)

Once they are both installed, complete the following steps:

Run the VEXnet Firmware Upgrade Utility, it should look like this:



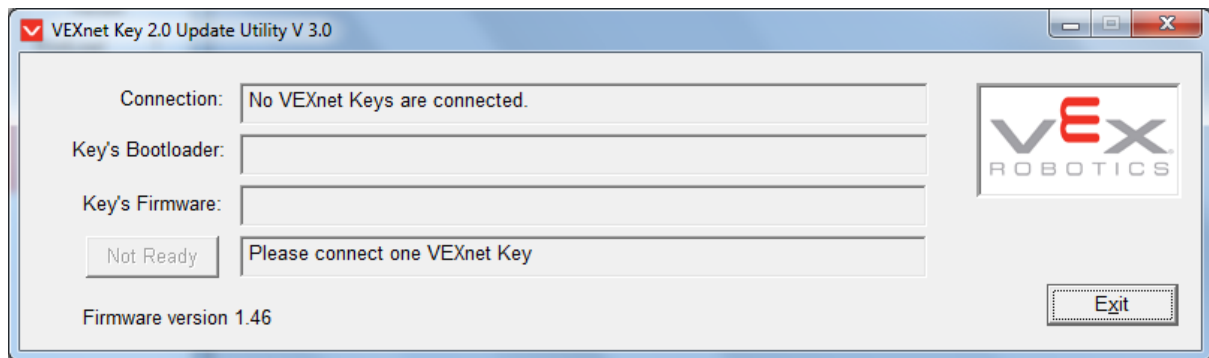
Using the USB cable, connect your Cortex to the computer and then follow the on screen instructions. You do not need to connect a battery to your Cortex as it will take power from the USB port for this function.

Please note: if you want to use the standard Clawbot program that is included on a brand new Cortex, please set the "Default Code" box on the right hand side to ON. Once the update is complete, you can disconnect the Cortex.

Now plug the Joystick into your computer via the USB port (where the VEXnet Key plugs in) and repeat the update process.

Your Joystick and Cortex have now been updated. You may need to "pair" the joystick to the Cortex again following the instructions in your kit.

**Now, open the VEXnet Key Update Utility which should look like this:**



**One at a time, plug your white VEXnet 2.0 key into the USB port of the computer and click Update when prompted. Repeat for all VEXnet 2.0 keys.**