1. Router Configure

a. Connect your computer to a router LAN port with an ethernet cable.

b. The CyberGlove III connects to the host PC via a TCP port. A port must be selected that is not in use by another process. Run the command 'netstat –an' from the Windows command prompt to see ports that are in use, pick a port number that is not shown. (We recommend ports between 5200 and 5220, they are not registered by other devices.)

c. You will need the host PC's IP and router's IP and WiFi network name. Run IPconfig from the Windows command prompt, scroll up to the local area connection: IPV4 is the host PC, default gateway is the router.

d. To find the WiFi network name, open the default gateway address in a browser. Once logged in, confirm the WiFi network name and confirm security is turned off, save any changes made.

e. Disable the Windows and any 3rd party firewall so they do not block your CyberGlove from connecting to the host PC. (Depending on your environment you may want to keep firewall enabled and only forward the selected port, consult your router and firewall manual for instructions.)
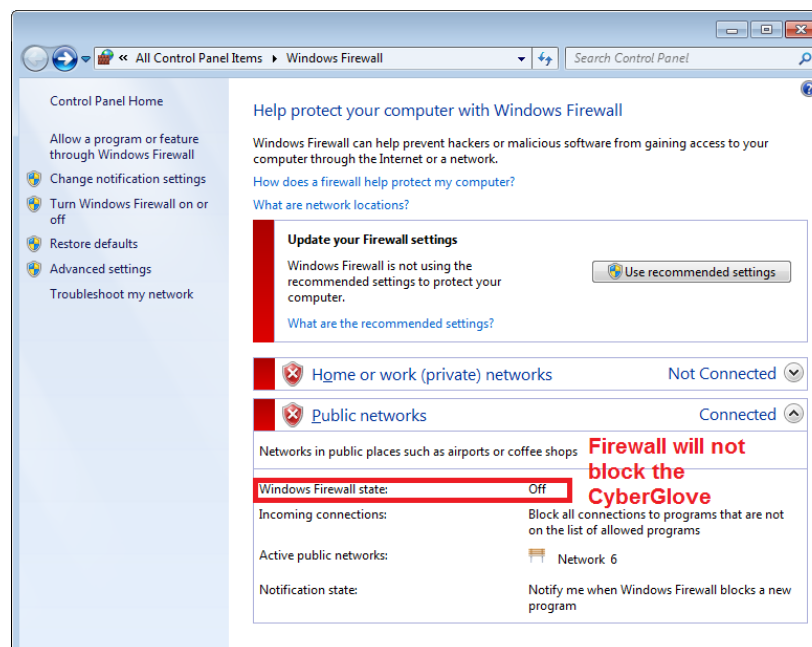
2. Glove Configure

a. To configure the CyberGlove III to connect to your router, remove the SD card and connect it to your PC. Create a text file named 'CG3_CONFIG.txt,' with the exact text shown below. Update the parameters for your setup: set AP to WiFi network name, IP to the IPV4 from IPconfig and the port to port number selected in section 1 above. Do not include any extra spaces or tabs in the file. After saving the file, eject the SD card and put it back in the CyberGlove III.

> **$CG3_CONFIG.txt**
> **$AP: cg3wireless**
> **$IP: 192.168.0.100**
> **$PORT: 5200**
> **$END**

3. Software Configure

A. Device Configuration Utility (DCU)

a. Open 'Serial Port Redirector' by Fabulatech. Click the Port>Add, enter your chosen TCP port and desired comm port (step 1) and click ok. Right click the new comm port item and select properties, edit the Virtual Serial Port Properties as highlighted (steps 2 and 3) and click ok. You will see the new comm port listed with red LED indicating the CyberGloveIII is not currently connected (step 4).
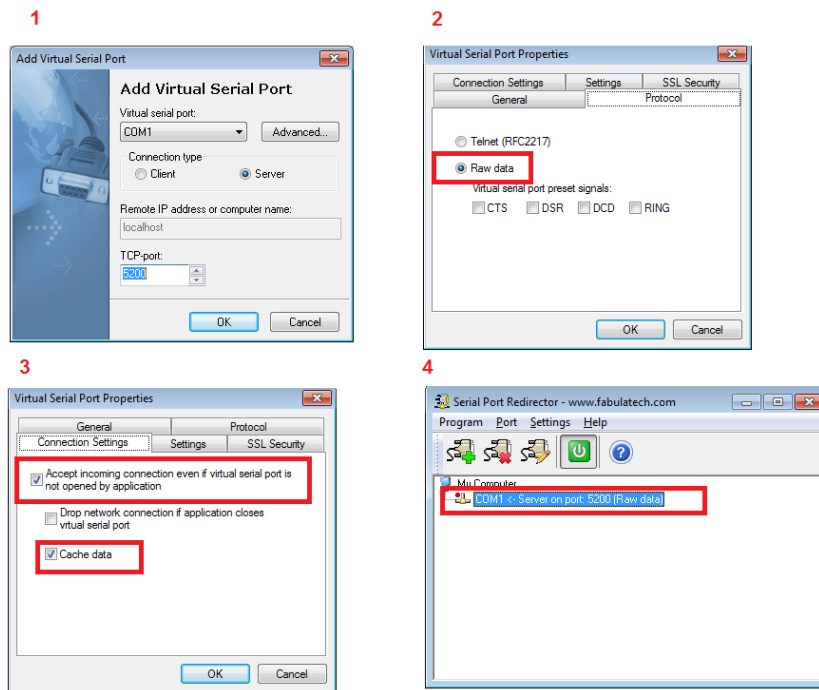
b. Connect battery and turn-on the power switch on the CyberGloveIII.

c. Three green blinks mean device is initialized, if you only saw the three green blinks you connected and can proceed. The serial port redirector will indicate that the glove is connected. If you see red blinks precede the green blinks you still have not successfully connected to your host machine via WiFi:

>   (1) red blink: no SD card detected

>   (2) red blinks: the SD card text file configuration is not correct, check file name and contents.

>   (3) red blinks: the connection failed, recheck that firewalls are disabled. Then confirm that the router name, IP address, and port address match between the glove text file and the router wireless settings.

d. With glove connected open the CyberGlove Device Configuration Utility. Click Device>Add to create a new connection, select the comm port created by the serial port redirector and click connect. Right click the new device and select 'Re-Connect', see the glove appear on screen.
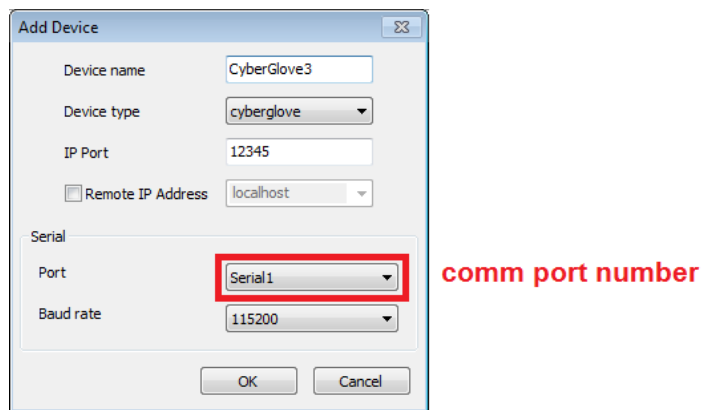
B. Motion Capture Console (MoCap)

d. For motion capture applications, the CyberGlove Mocap Console will allow you to configure the glove's sample rate and record data to the SD card.   Before opening the Mocap console, close the CyberGlove Device Manager and Device Configuration Utility and disable the virtual comm port created by the serial port redirector. Open the Mocap console, enter the CyberGloveIII's port number (step 1), click the 'listen' button (step 2), and then power up the CyberGlove III. A message will be displayed when glove is connected (step 3).
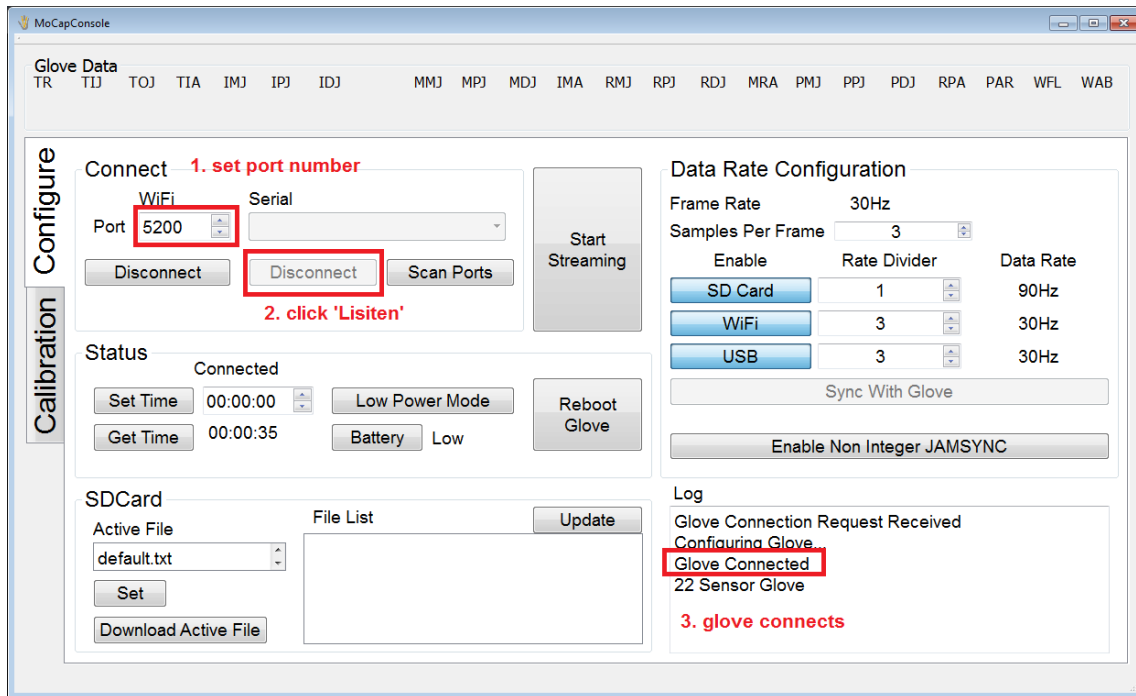
8. Power glove down when finished to save battery life.

http://www.CyberGlovesystems.com/