

1. Check What's Inside

- CyberGlove III, MOCAP glove with control unit
- Neoprene armband
- VirtualHand Software CD (if purchased)
- 2 – 9V Lithium Ion rechargeable batteries
- 9V Battery charger
- Mini-USB cable
- Quick Start Guide
- User Guide

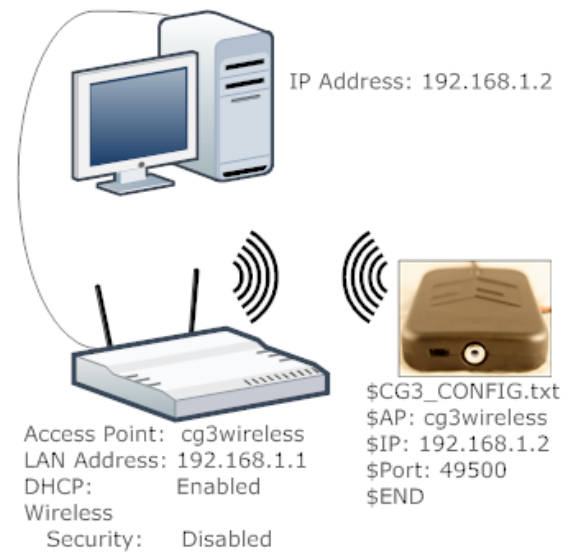


2. Charge the Battery

Charge both of batteries. A full charge per battery usually takes about 3 hours. By having both batteries fully charged, this avoids any disruptions of glove use should one of the battery's charge be depleted. If the LED on the control unit displays solid RED, this indicates that the battery charge level is low.

3. Configure the Wireless Network

You'll need to setup a wireless network so the glove can communicate with your Windows PC. Here is a simple example network:



Your wireless router should be configured following the manufacturer's directions. Make sure you choose an access point that is easy to type and that you disable all wireless security.

Your computer should use a static IP Address that is on the same subnet as the wireless router; in the above example it could be anything on the 192.168.1.x network.

4. Remove the Micro SD Card

If your glove came with a Micro SD card installed inside the control unit, it needs to be removed so you can configure it. Gently push on the Micro SD card to release it and then you can pull it out.



CyberGlove Systems 2355 Paragon Drive, San Jose, CA 95131 USA

T: +1 (408) 451-9463 | sales@cyberglovesystems.com | www.cyberglovesystems.com

5. Configure the Micro SD Card

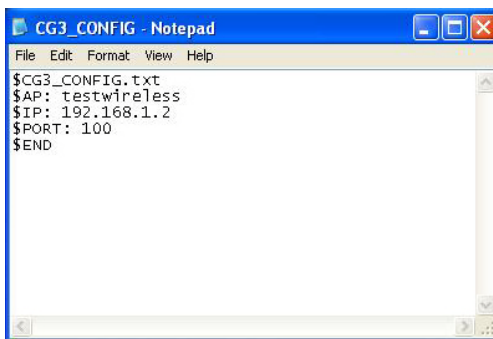
The CyberGlove III requires you to configure a Micro SD Card in order to communicate with your PC. This configuration will complete the wireless network you set up previously.

Configuring the Micro SD Card will require:

- A Micro SD Card
- A Micro SD Card adapter for a PC
- A PC running Windows XP or later

First, insert the Micro SD Card into the PC adapter, then insert the PC adapter into your Windows PC. A new Explorer window should open showing a single file named “CG3_CONFIG” or “CG3_CONFIG.txt”

Open this file using a text editor like Notepad and make the following changes:



- **\$AP** is the NAME of the wireless network (AP) you previously chose for your router. Note that this name is case-sensitive.
- **\$IP** is the IP ADDRESS you previously chose for your Windows PC.
- **\$PORT** is the port on the host computer that the glove will try to open. We recommend using ports in the range from 49152 to 65535
- Save the file
- Eject the Micro SD Card adapter

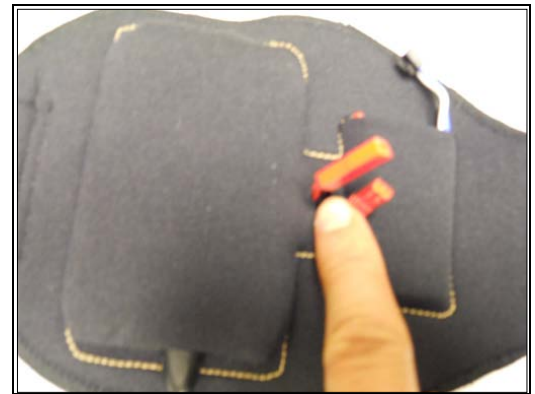
6. Insert the Micro SD Card

Insert the Micro SD Card back into the control unit. You should feel and hear a “click” when it is properly locked into place.



7. Connect the Battery

Properly place the control unit and battery in their respective pockets in the armband and use the center opening to connect.



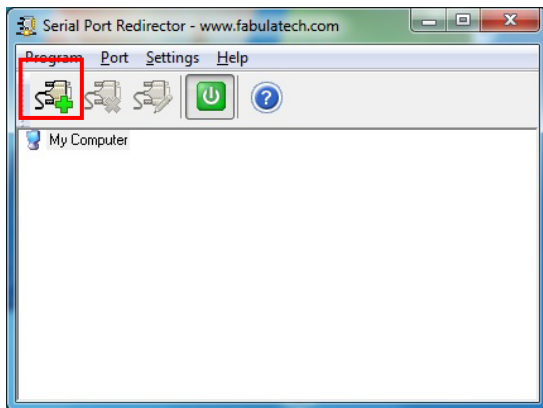
8. Install the VirtualHand Software

Install the VirtualHand Software (SDK and MotionBuilder plug-in are optional). The installer will prompt you to install the “Serial Port Redirector” if not already installed.

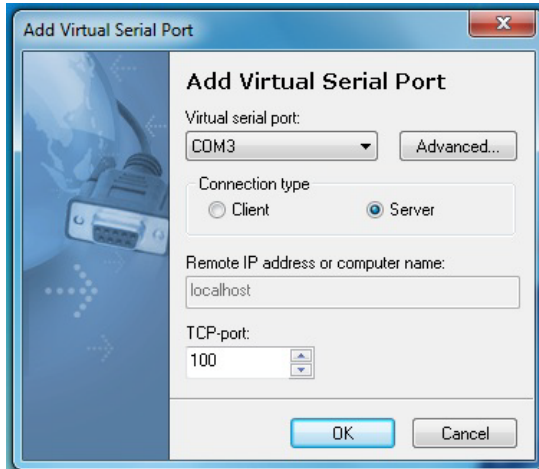
9. Configure the Serial Port Redirector software

Serial Port Redirector is a virtual serial port application that is used to connect the CyberGlove III to VirtualHand software such as the driver, DCU and MotionBuilder plug-ins.

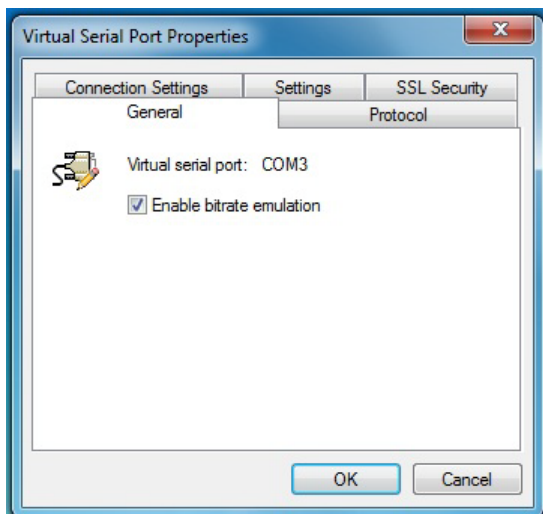
- Start the “Serial Port Redirector” software (1 window per glove) from the shortcut on your desktop or from the START menu



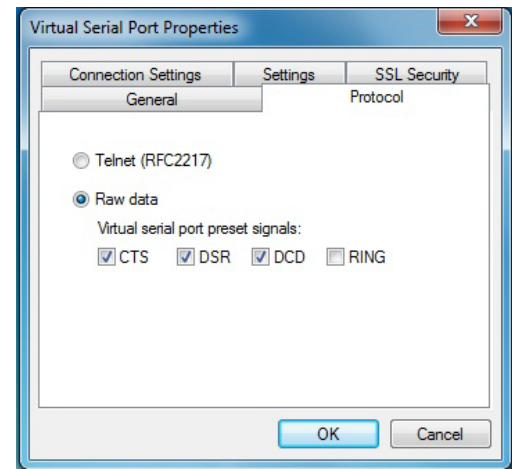
- Click the “Add Virtual Serial Port” Button, a dialog will open



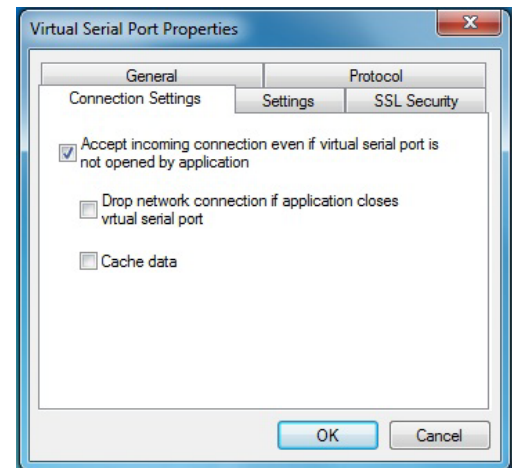
- Select a COM port (this will later be used as the selected serial port in the Device Configuration Utility)
- Select the TCP port you chose for the CG3_CONFIG file you edited earlier
- Click the “Advanced” button, a dialog will open



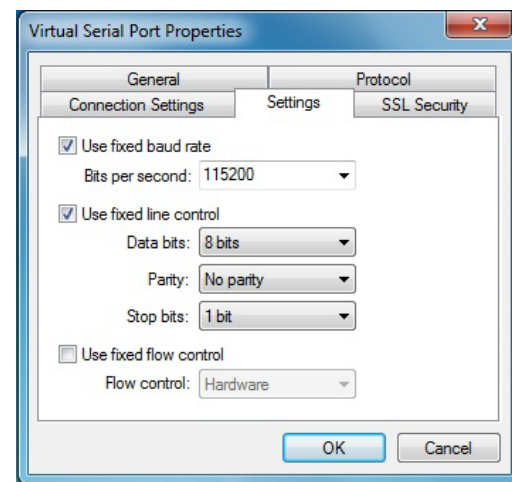
- Select the “General” tab, make sure the “Enable bitrate emulation” option is checked



- Select the “Connection Settings” tab. Make sure the “Accept incoming connection” option is selected



- Select the “Settings” tab. Make sure the “Use fixed baud rate” option is selected with a baud rate of 115200. Also make sure the “Use fixed line control” option is selected with “Data bits” set to 8, “Parity” set to No parity, and Stop bits set to 1



CyberGlove Systems 2355 Paragon Drive, San Jose, CA 95131 USA

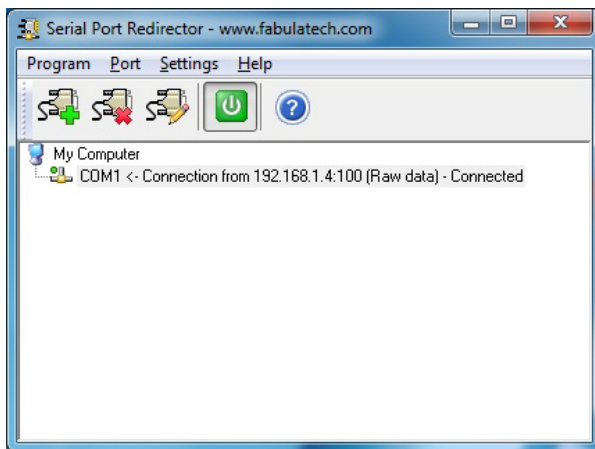
T: +1 (408) 451-9463 | sales@cyberglovesystems.com | www.cyberglovesystems.com

- Click “OK” to accept and exit the “Advanced dialog and click “OK” again to accept and exit the “Add Virtual Serial Port” dialog.

10. Power up the Glove

Use the tiny switch to turn the glove on:

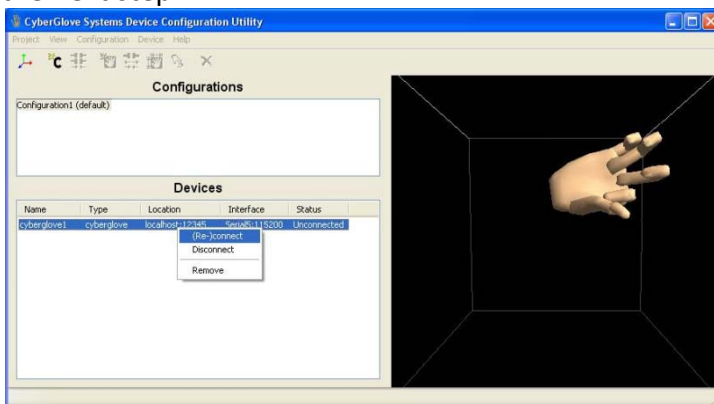
- LEFT=ON, RIGHT=OFF
- The LED will tell you the status of the glove:
 - GREEN/RED light flashes once on power up
 - GREEN flashes 3x after ~15 sec. – this means the glove(s) are now connected.
- After a short time the Serial Port Redirector software should indicate that the LAN status is ‘Connected’



11. Device Configuration Utility

Launch the Device Configuration Utility (DCU) from the START menu (under CyberGlove Systems). This should also automatically launch the Device Manager, which is the driver for the glove.

If you already have a device configuration, you can skip the next step.



12. Add the Device

- From the menu bar of the Device Configuration Utility, select Device→Add, a dialog will open



- Select “cyberglove” from the drop down
- Select the serial (COM) port you set in the Serial Port Redirector earlier
- Select the baud rate you selected in the Serial Port Redirector earlier
- Click “OK”

13. Connect the CyberGlove III

Right-click on the newly added device in the bottom pane and select “(Re-)connect”.

14. That’s it!

Whether it is the VirtualHand SDK or VirtualHand plugin (i.e. MotionBuilder), follow the documentation found in the START menu. Most of the initial steps for the Device Manager and DCU remain the same.

The CyberGlove III glove also has a UI to allow access to its new features and a C++ class, found in the VirtualHand Demos directory. Note that all CyberGlove III software must use the Nokia’s QT libraries, found [here](#).

CyberGlove Systems 2355 Paragon Drive, San Jose, CA 95131 USA

T: +1 (408) 451-9463 | sales@cyberglovesystems.com | www.cyberglovesystems.com