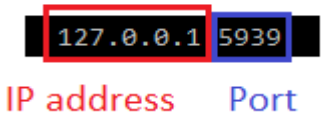
HTTP Streaming Instructions

March 2nd, 2020

Applies to MR3 versions 3.10 and newer. HTTP Streaming not compatible with older versions of MR3.

HTTP Streaming

1. Run Command Prompt in the computer you intend to stream to (Type "cmd" into the search bar on your PC).
2. Once the command prompt opens, type in "netstat -oa." You should see the command prompt populate with IP address and port number information.
3. The IP address and port are what you will need to run the Matlab script to initiate HTTP streaming.



4. The output of "netstat -oa" shows you the ports that are already being used. Choose a number for a port that is ideally less than 10000, and is NOT shown on the list (the number can be random).
5. You should have the scripts, "noraxon_stream_init," "noraxon_stream_collect," and "mr3_streaming_plot." Open the function "noraxon_steam_init" first.
6. On lines 20 and 23, you should see the option to type in the port and the IP address. For IP address, use '**127.0.0.1'** if you are streaming to Matlab from MR3 on the same PC. If you are streaming to a different PC, you will need to find the IP address of the other PC.

   Note: Follow the instructions in the section **Finding your IP address** to find the IP address of your target computer.

7. On line 23 where it prompts you to type in the port, use the number created in step 3.
8. Open MR3.
9. Open **Software Setup**, and go to the **HTTP streaming** tab. Here, make sure you check "Enabled" and type in the port number used in Matlab from step 7.
10. Make sure your hardware devices are configured how you want them in the Hardware Setup and Configuration. When you are ready, click **Measure**.

    Note: If you are using MyoMotion, be sure to calibrate the sensors first.

Streaming the data and saving it in Matlab:

1. Before pressing record, go back to Matlab, and run the "noraxon_stream_init" script. You should get to choose the segments/sensors that you want to stream.
2. Type in the amount of time you want to stream in the "noraxon_stream_collect" script.
3. Run the "noraxon_stream_collect" script. After the amount of time you entered has passed, you should see the selected data saved.

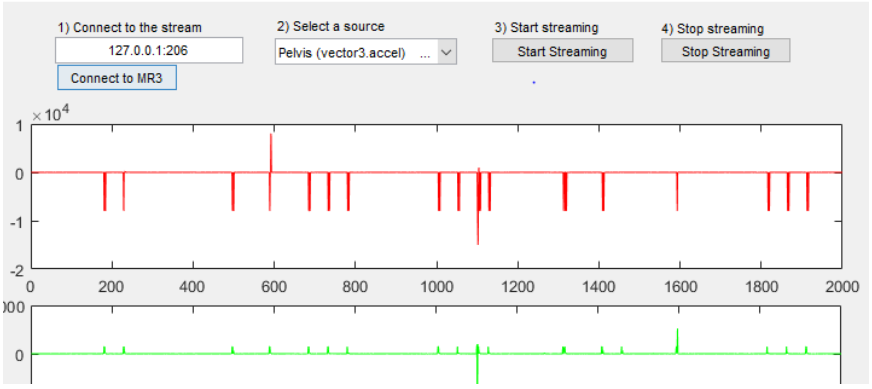
Visualize the data you are streaming in Matlab

1. Run "mr3_streaming_plot." Type in the IP address and port as you see it in Command prompt (see the example below) and select "Connect to MR3".

   Note: MR3 should be open and measuring data.

2. Select a source you wish to stream, then choose **Start Streaming** and **Stop Streaming** to begin and end streaming.

   Note: You can only view one source when you are visualizing the data. If you choose to collect the data, you will be able to collect multiple signals.



Finding your IP address (for streaming from MR3 to a different PC)

1. Run the Command Prompt (follow instructions from step 1 of **HTTP Streaming** section)
2. Type in "ipconfig." The Command Prompt should populate with the IP address of your PC across from IPv4 Address.