Osmium MIMU22BT

Plotting Realtime Tracking Data Using BlueTooth

Instruction Manual

Revision 1.3

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Revision History

Revision	Revision Date	Updates
1.0	22 May 2014	Initial Release of Instruction Manual
1.1	06 Sep 2014	Included live demo video Modified instructions as per demo video
1.2	15 Sep 2014	Video link updated
1.3	10 Oct 2014	Video link updated

Purpose & Scope

This document lists down instructions to plot tracking data of Osmium MIMU22BT in real-time, using BlueTooth.

Hardware & Software Requirement

- Operating System: 64-bits Windows 7
- Matlab R2013
- Matlab scripts for data collection (Should be available on your computer.)
- Hardware: A computer with 4 GB SRAM
- USB data cable
- Osmium MIMU22BT

Live Demo Video with Operating Instructions

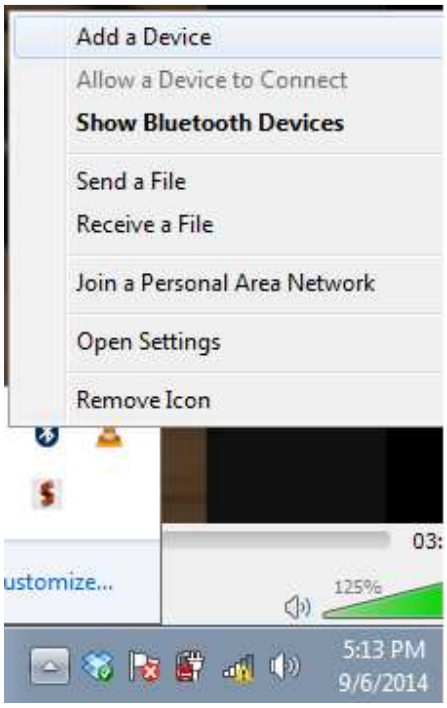
A (quick and dirty) live video is available online:

https://www.youtube.com/watch?v=bLANmejpkN4

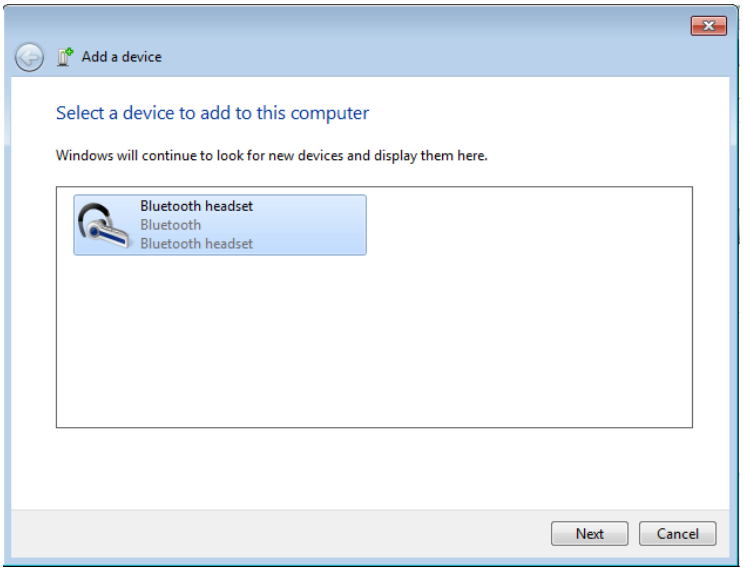
Same instructions are listed in the following section.

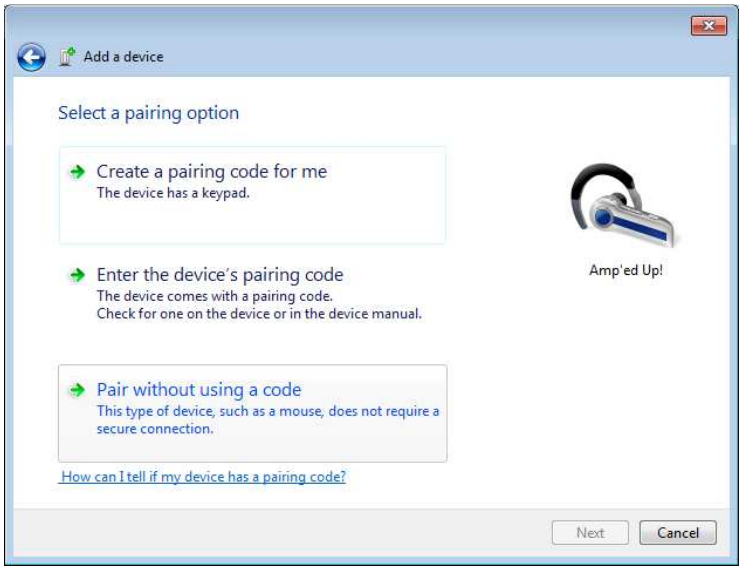
Operating Instructions

1. Power ON the device
2. Pair MIMU22BT with computer's Bluetooth

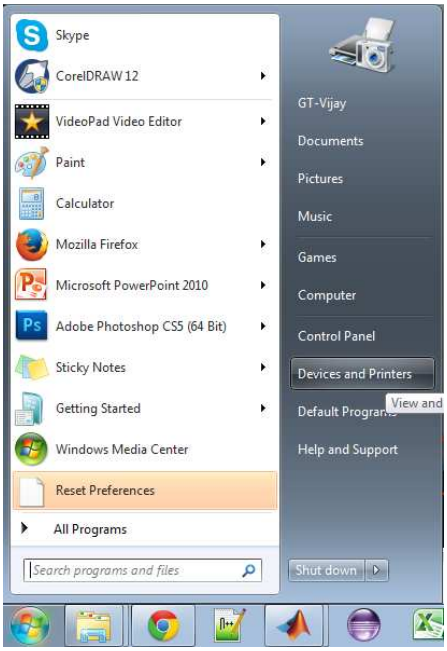


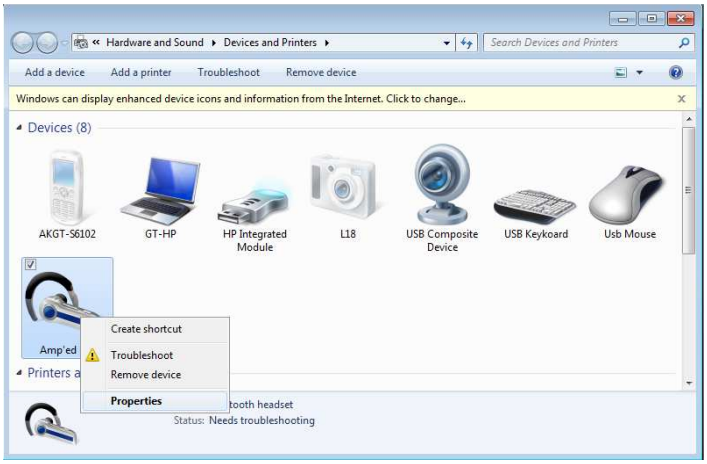
3. Connect without pairing code

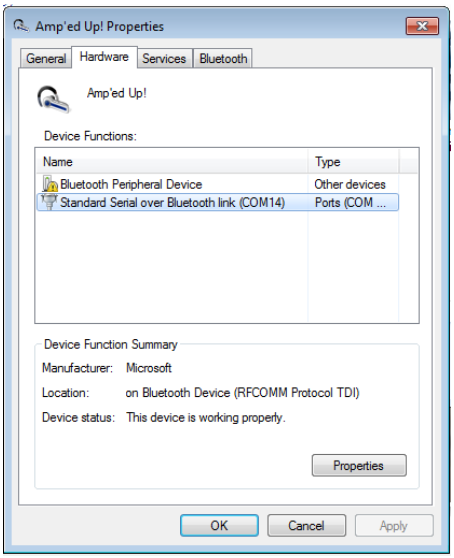




4. Open “Devices and Printers”



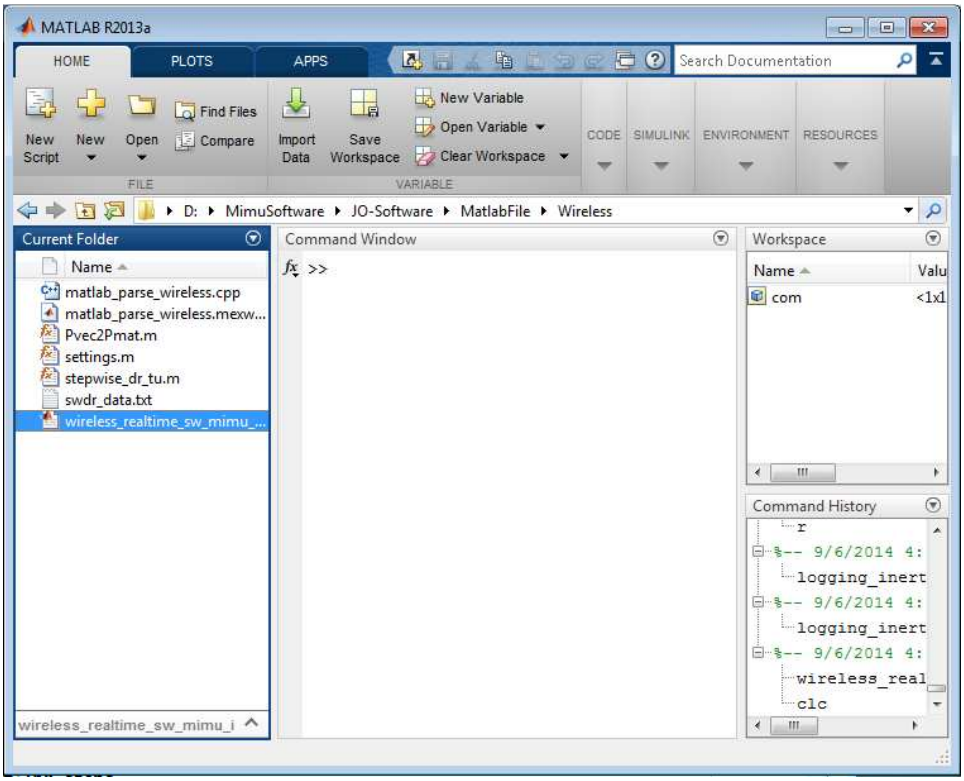


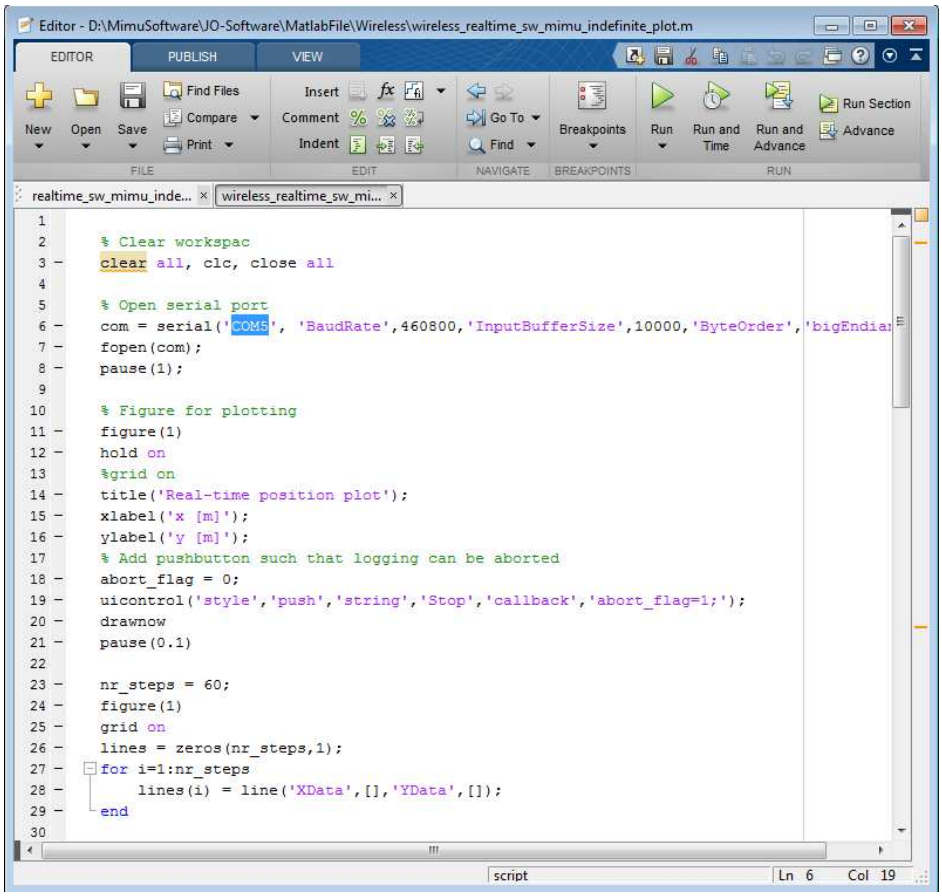


Note the connected port (COM14 in this case) as highlighted in the image.

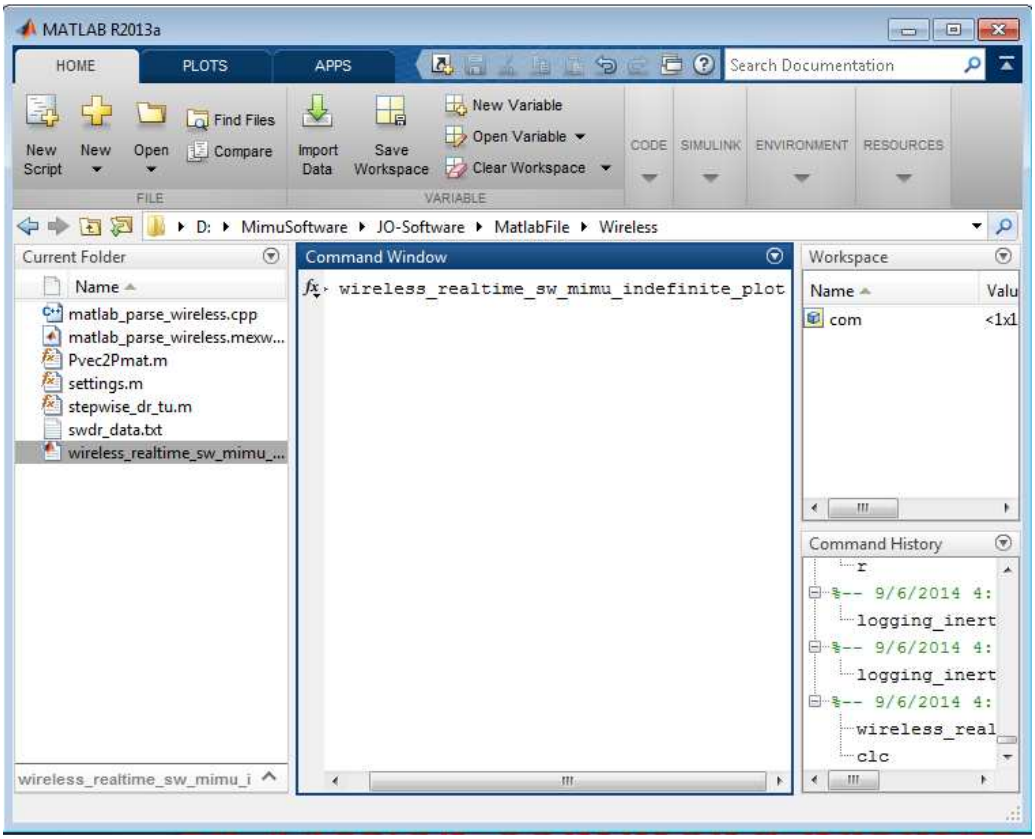
If you are unable to find the COM port for MIMU22BT, check its power status (ON/OFF). The battery charge level maybe low.

5. Open “wireless_realtime_sw_mimu_indefinite_plot.m in Matlab and modify ir for COM port (COM15) and save.

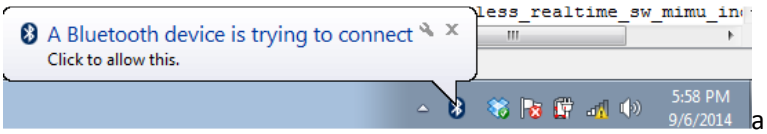




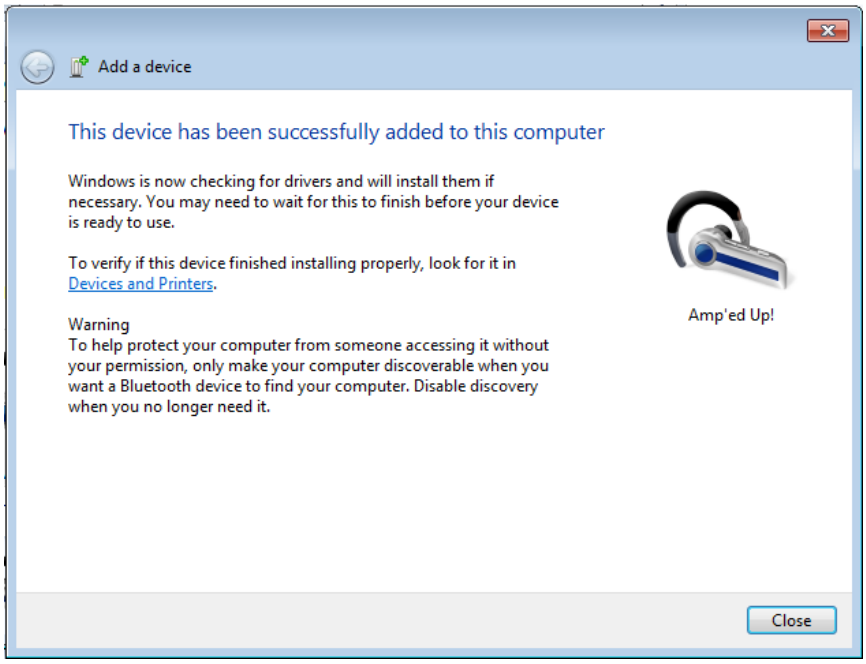
6. Run “wireless_realtime_sw_mimu_indefinite_plot” on Matlab command prompt



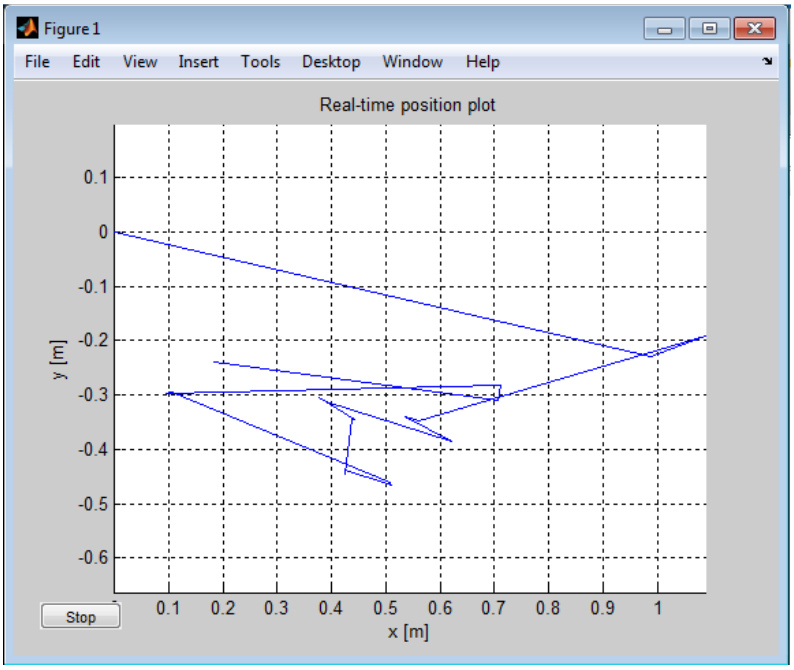
Your computer will show below message on executing above command on Matlab:



7. Pair Matlab with Bluetooth (Pairing code: 1234)



8. A Matlab plot will pop up on your screen, showing the realtime tracked path of MIMU22BT. Below is the random path of MIMU22BT on work table:



Note:

- *Please restart Matlab, if it gives communication error.*