



HYPACK SUPPORTS VECTORNAV

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HYPACK is excited to announce support for VectorNav's INS Systems. When you install our 2021 Q3 update, you'll get access to VectorNav's VN-110, 110e, 210, 210e, 310, and 310e systems. You can learn more about these products here: <https://www.vectornav.com/products>.

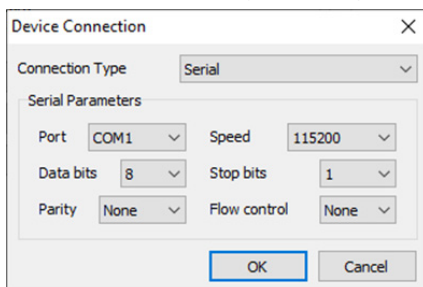
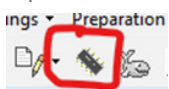
HYPACK's support includes HYPACK Survey and HYSWEEP Survey drivers. When surveying with these devices, you can record their raw output to use in other position processing software, such as Inertial Explorer.

To connect:

1. It's recommended to download and install the VectorNav Control Center software: <https://www.vectornav.com/resources/software>
2. Connect the VectorNav to your HYPACK computer
3. Determine the COM port it's connected to. You can do this with the VectorNav Control Center software or use ComQuery to find the port (launch HYPACK Hardware, Options, ComQuery)
4. If you want to record the device's raw data for processing in other INS software, you'll need to increase the device's baud rate from its default:
 - A. Open VectorNav Control Center and connect to the device at its default baud rate of 115200
 - B. Go to "Config Registers"->"System"->"Baud Rate" and change it to 460800
 - C. Click "Write Register"
5. Open HYPACK and the Hardware config program
6. Click on "Boat" on the left, find "VectorNav Tactical" in the device list, and click "Add"
7. If you want to record the device's raw data for further processing in other INS software, check "Record device specific messages" at the bottom
8. If you're running a HYSWEEP survey, click on "Setup" and check "Loop back messages". Note the UDP port for later
9. Click on "Survey Connect" and click the "..." under "Device Connection"
10. Set the "Connection Type" to "Serial". Set the "Port" to the device's port number. Set the "Speed" to either the default 115200 or 460800 if you changed it in the VectorNav Control Center software



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11. If you're running a HYSWEEP survey:

- A.** Click "Hardware" along the left, check "Include" under "HYSWEEP Survey", and click "HYSWEEP Survey" along the left
- B.** Find "VectorNav Tactical" in the list and click "Add"
- C.** Under "Connect", set the "Port" to the port you set earlier and the "Internet Address" to 127.0.0.1

As you're logging, if you've checked "Record device specific messages", a .txt file will be created in your project's Raw folder. You can load this into the VectorNav Log Explorer software and convert it into a more useful format for processing in software like Inertial Explorer:

1. Launch VectorNav Log Explorer
2. Go to "File" → "Convert Legacy Log"
3. Change the file type to .txt
4. Select the relevant files
5. Click "Next", "Next", "Finish"
6. Click "Yes" to view the converted log
7. Go to "Export" and select your desired output. VectorNav recommends outputting to RINEX format.

The output files will appear in the same folder as the input files. You can now load this into third party processing programs.