Setting X91+ or X900+ to Automatically Record Raw Observation Data

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1. Download HCLoader from:
   http://x9gps.com/Tools/Utilities/HCLoader/v8.51/HcLoader.exe

2. Connect the head to the serial port using the DB9 serial connection. Turn on the head. Start the HCLoader program.

   If HCLoader comes up with Mandarin Chinese language, read this:
   http://x9gps.com/Tools/Utilities/HCLoader/ChineseMenuTextNotes.txt

3. HCLoader will look like this:
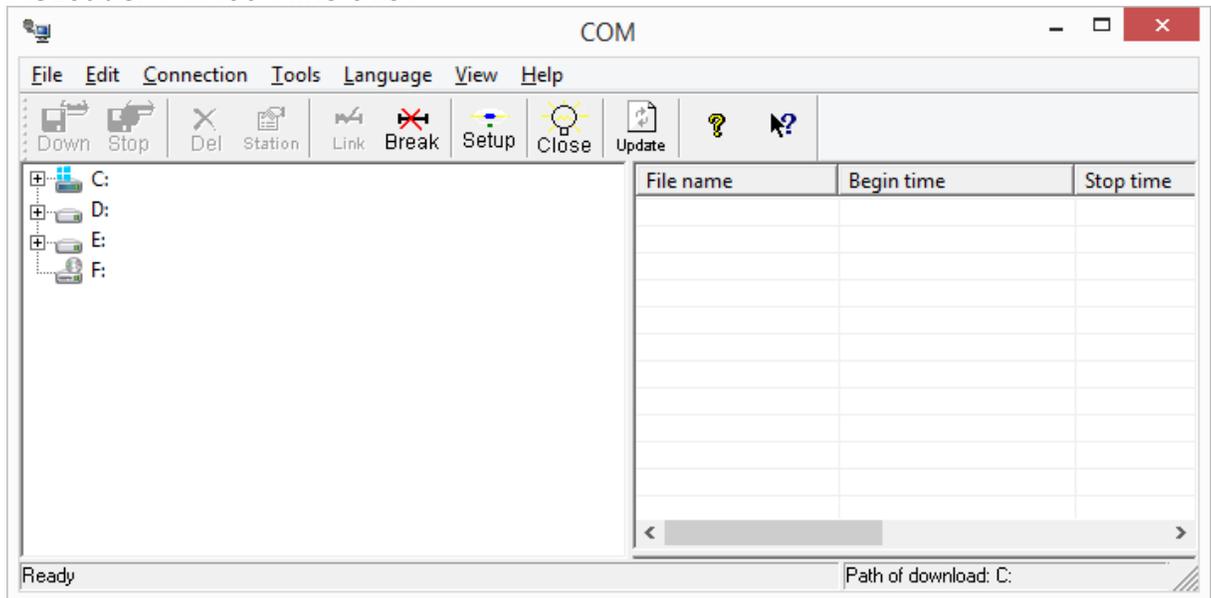
4. You may need to override the default com port using 'Close' then 'Connection: Setting':
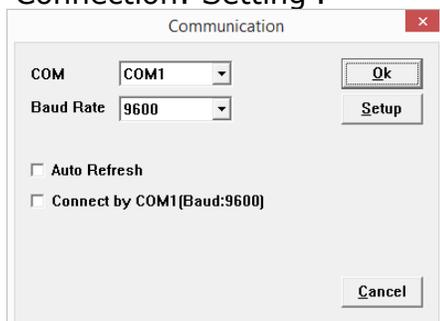
However, if your serial port is COM1 then you may skip directly to step 5.

5. Click on the 'Update' button:

the attached device serial number will be shown on the title bar:

If you see the device serial number then you have successfully connected to the GPS head.

6. Click on the 'Setup' button:

7. The 'Receiver Setup' dialog is shown:

Set the 'Data Log' item to 'Auto' then click on 'Apply'.

8. Click on Exit, then close HCLoader.

9. The receiver should automatically begin recording raw data each time it is powered on after:
   a. A suitable number of satellites are tracked
   b. A valid position is computed by the GNSS engine
   c. The position is found to be stable

In some instances you may have to program the head as a rover once to begin collecting static data (in SurvCE choose Equip: GPS Rover and configure the head as a rover.) In this case you can then revert the head back to a base and it will continue to collect data.

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