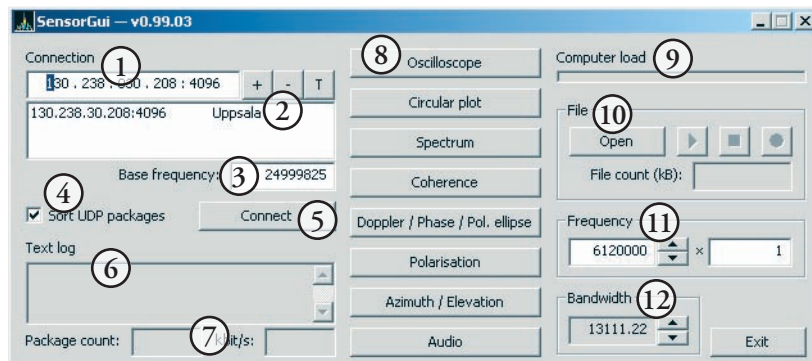


# SensorGui Introductory Guide

## The main window



*This is the main window.*

- 1 Connection address. Consists of an IP address and a port number.
- 2 List of addresses. This list will be empty when first starting the program.  
To add an address to the list, click the “+” button. The address must be unique, otherwise nothing will happen.  
To remove an address from the list, make sure the address is selected and press the “-” button.  
A short comment can be added to an address by selecting the address and pressing the “T” button.  
To choose an address from the list, double click on it, or press “enter” after selecting it.
- 3 Base frequency is the frequency with which the sensor operates. This number is seldom changed.
- 4 During normal operation, the UDP packages to SensorGui are sorted, but during bad reception program operation may be awkward because it has to wait for stray packages. Uncheck this square for a more seamless operation.
- 5 Press once to connect, press again to disconnect.
- 6 The text log is mostly used for development purposes. It displays some info for connection purposes.
- 7 Package count shows whether your computer receives any UDP packages or not. During normal operation, the current package number is shown here.  
The “kbit/s” square shows how many kilobits of data arrive per second, and may be useful to know for computer performance monitoring.

- 8 The various presentation dialogs. Press a button to show a dialog.
- 9 A bar for easy computer load monitoring.
- 10 File operation, for storing and retrieving data to and from a file, preferably on a hard drive since the operations will have to be performed quickly.

Press the “FILE” button to open a file, new or existing.

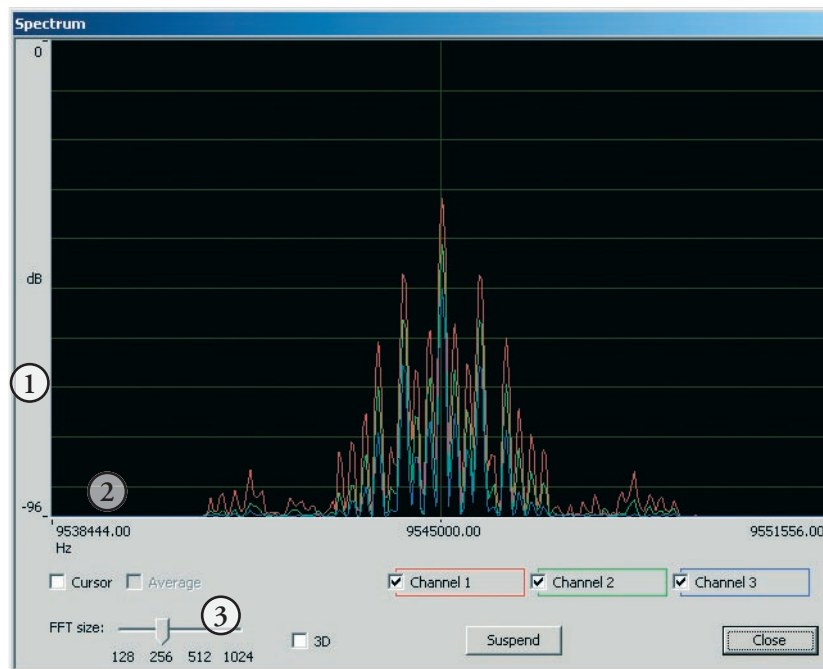
When a file has been opened, it can either be played or recorded to. When recording to a non-empty file, its contents will be erased prior to recording. You may open a new file instead.

Playback of a stream will always start from the beginning of the file. The tempo of the playback is preset, regardless of the bandwidth set when the recording was made.

The file count shows the size of a recorded stream during recording, and the amount left during playback.

- 11 The listening frequency, and the frequency step. The frequency can be typed manually and changed by hitting “enter”.
- 12 Bandwidth, or cutoff frequency. This value cannot be set manually.

## A few notes regarding presentation dialogs



*The spectrum graph.*

- 1 All windows with a raised border can be resized.
- 2 Because of the windowing filter, the sides of the spectrum, coherence and polarisation graphs appear to be unused. This is for convenience only.
- 3 The length of the Fourier transform affects the update interval. A higher value means slower update.

## Troubleshooting

*Q: I get a message that the file "d3d9.dll" is missing.*

A: You have to install DirectX drivers.

*Q: The graphs keep stopping all the time, and I have to disconnect and then reconnect to start them again.*

A: You are competing with someone else for the UDP connection. Try connecting a little later.

*Q: The program crashed, and I rebooted the computer, but there is a lot of network activity going on.*

A: The data pump is still sending packages to your computer. Start SensorGui, connect to the antenna and then disconnect, to make it stop.