



FAQ: GreenSeeker Handheld and RT100 Single Sensor Systems

How do I get the newest software for my ipaq?

While software is shipped on CDrom with each system, the latest software and algorithms are generally available online for direct download to a Windows PC at

www.ntechindustries.com/software

Click the link to save a file to your computer. Files will be archived (zipped). You will need to uncompress (extract), and then run the installer. You *do not* have to do an uninstall of a prior version first.

How fast must I travel over my plots to get enough data points?

The slower you go, the more points you will get. You'll want at least 4-5 samples per plot, though users typically capture many more on larger plots (1, 2 and 10 meters are common). Typically, meter-sized plots are measured by traveling slowly over the plot, either walking or pushing some type of cart. Use the tables below to determine what you will get at various speeds, based on normal setting of 100msec/sample (10Hz). You can increase the sample rate of the sensor to get more points per unit of distance. (See below.)

English				Metric			
mph =	ft/sec	sec/ft	samples/ft	kph =	m/sec	sec/m	samples/m
1	1.47	0.68	6.8	1	0.28	3.60	36.0
2	2.93	0.34	3.4	2	0.56	1.80	18.0
3	4.40	0.23	2.3	3	0.83	1.20	12.0
5	7.33	0.14	1.4	5	1.39	0.72	7.2
10	14.67	0.07	0.7	10	2.78	0.36	3.6

Can I connect my PC Laptop directly to my Handheld Unit?

Yes, you can. Reasons include capturing data to a proprietary program, changing default settings for the sensor. Use a DB-9 Serial cable from the Battery Box to your PC. (Sometimes a null-modem adapter is required.) Set your terminal program to 38,400, 8,N,1,none (Details are in the Handheld manual, which is also on the NTech Industries website.

How do I change the Output Data rate?

After connecting your Handheld to your PC, launching HyperTerm (or equiv) and turning on the sensor, type m (for menu), then o (for output options) and enter the output rate in milliseconds, then the Enter key. (100, 50, 25 [ms] correspond to recommended higher output rates of 10, 20,40 samples per sec [Hz]. Type q (for quit) and you're done.

How do I change Vegetation Indices?

(See setup on previous questions.) Enter the menu, and select output options, and choose your index. The output data format will be the same, but the last item in the line (2nd VI) will be the VI that you select (Default is iRVI). The Sensor will still output NDVI as well. Note that when using NTech Capture, the second or alternate index will be the one you've chosen regardless of the label in Capture (Different versions may say "Ratio" or "2nd Index.")

Why won't my battery charge?

If there's a power problem with your GreenSeeker Handheld Unit, it could be the charger, the internal fuse or the battery. Usually it's the battery. The battery is a small lead-acid battery similar to those used in a vehicle. The battery has a typical life of 3-4 years, but like a car battery, will sometimes fail prematurely, especially if it is not charged regularly. If your battery is not taking a charge, it likely needs replacing. Its manuf. p/n is NP4-12 [12 Volt 4.0A-hr capacity] You can get them from several sources. One good source is Allied Electronics.

<http://www.alliedelec.com/>

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