

## Greetings ...

The aim of each System 500 GPS newsletter is to provide information about the System 500 Sensor (both hardware and firmware), SKI-Pro, and the GS50 (including GIS Data-Pro). The newsletters will cover all aspects of System 500, starting with basic knowledge of the system, slowly growing to include some "more advanced" topics. We wish you continued success with System 500.

Your GPS Support Team

## Why has System 500 been so Successful?

- Outstanding system morphology
- Designed and constructed to highest standards
- 10 Hz logging and position computation
- Lightest RTK system on market
- Fast and most reliable RTK ambiguity resolution
- Constant check on correctness of RTK solution
- Easy to learn to use

## Setting Up...

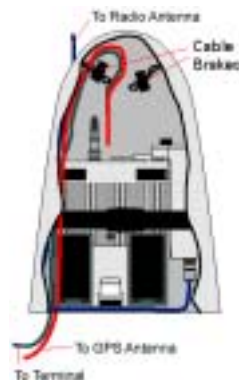
Every component of System 500 has been designed to fit together as simply as possible. But how often do you see the best GPS system on the market being used set up incorrectly? Do you really know how to set up the equipment correctly?

The mini-pack has many "hidden" features – are you using them all? Remember first impressions are always very important....

Always use the right cable for the right job and ensure they are routed correctly. Consider the most common use of System 500 – an RTK set up using the mini-pack and pole.

## Mini-pack and Pole...

- The TR500 cable and the GPS antenna cable should both pass through the cable brakes. This stops the cables being stressed at the sensor connectors, if the cables are snagged during survey.
- Always coil any excess cable between the radio modem and antenna neatly at the bottom of the mini-pack below the sensor.
- Is the user left-handed? Route the cables to the right side of the sensor and out of the right cable outlet flap for left handed users. Put the TR500 holder to the left of the pole (remember to loosen the bolt at the back and rotate the holder by 180 degrees).
- Use the velcro straps on the hip belt to keep the cables close to the user.



A mini-pack correctly packed with cables neatly routed for a right handed user

- Use the 1.2m cable to connect

to the antenna and the 1.6m cable from the sensor. This makes it easier for the user to disconnect himself from the antenna, the connection is always just below the sensor.

- Always use the cable clips on the pole and route the cable down the slot in the side of the pole grip.
- Ensure the hip belt and chest belt are correctly adjusted to distribute the weight onto the hips. Any mini-pack feels heavier if not worn correctly.

## "GIS" Set Up

Consider using a "GIS" type set up. This is very comfortable with the user only having to carry the TR500 in his hand.



This set up is ideal for surveys of quarries, land fill sites, stock piles etc. But many users simply don't know it is possible!

- Mount the GPS antenna on the telescopic stalk. Then use the 15cm radio antenna arm to mount the radio antenna to the telescopic pole.
- Ensure the antenna pole strap is tightly secured around the telescopic pole. This stops the pole moving around too much.

## Remember...

It is surprising how many users you will see with equipment set up incorrectly. Don't be one of them.