MAGELLAN PROFESSIONAL

Product News

Survey / GIS **Document: MKG07-001** **06 March 2007**

Z-Max Antenna Height

Product concerned

Product Names:

Z-Max.Net, FAST Survey

Product Family:

Land Survey

1. PURPOSE

The US National Geodetic Survey (NGS) has released new antenna calibration values for the Z-Max antenna. Using the proper antenna parameters is of the utmost importance for accurate surveying in either post-processed or RTK mode.

This is especially true when using Z-Max.Net in conjunction with other surveying equipment. Magellan strongly advises that special care be taken when mixing receivers / software to introduce the correct parameter values. It is vital to use the same type of phase center at both base and rover.

Magellan advice strongly that, as with any other equipment/software, special care shall be taken when mixing receivers / software to introduce the correct parameter value: use the same type of phase center at both base and rover.

2. PARAMETERS ENTRY

New parameters can easily be entered into the software database.

2.1. *GNSS SOLUTIONS*

- In menu “Tools / GNSS Antenna”
- Antenna “ZMax GPS”
    - C1 (m) : 0.3622 (formerly 0.3270)
    - C2 (m) : 0.3594 (formerly 0.3286)

- Antenna “Zmax GPS UHF”
    - C1 (m) : 0.8118 (formerly 0.7740)
    - C2 (m) : 0.8068 (formerly 0.7756)

2.2. *FAST Survey*

- In window “Equip / Configure Rover / Receiver”
    - Select antenna “Zmax GPS UHF”
    - Press “List”
- In the “Define Antenna” window
    - Press “Copy”
    - Modify Part Number as wished; e.g. “USER GPS UHF”
    - Enter proper L1 and L2 values
        - L1 Offset: 0.8118
        - L2 Offset: 0.8068

Do the same for a “USER GPS” with

- L1 Offset: 0.3622
- L2 Offset: 0.3594

3. CUSTOMER NOTIFICATION

All RSMs will receive this Product Marketing Update for information on their channels / customers.