Menu Map

Hemisphere GPS®

A221 Smart Antenna

Quick Reference Guide

Part Number: 875-0237-0000

The Display

Main menu

LEDs (see below)

Scroll up
Enter
Scroll down

20:57:52
GPS▶
SBAS▶
Base Station▶

Tip: *To enter alphanumeric characters in an entry field, use the up and down arrow keys to scroll to the desired character and press the enter key to select it.*

Viewing LED status

LED	Function
	Power Power On
	GPS GPS position calculated (Blinking LED indicates acquiring data)
	DGPS DGPS lock (Blinking LED indicates broadcast or reception of a differential correction from the optional radio)

20:57:52
GPS▶
SBAS▶
Base Station▶

18:04:22
Config Wizard▶
System Setup▶
Data Logging▶

Main Menu

20:59:11
Position Status▶
Satellites▶
Configure▶

GPS Menu

Available tasks:
*view position status
*view individual satellite data
*configure GPS options - elevation mask and DGPS age
*select the communication port data output

21:02:53
Signal Status▶
Satellites▶
Diff▶SBAS

SBAS Menu

Available tasks:
*view SBAS signal status
*view satellite status
*select the differential source

21:04:05
Reference▶
Radio▶
Back▶

Base Station Menu

Available tasks:
*set a reference point
*modify radio channel

21:08:09
Proceed Wizard▶
Delete Saved▶
Use Previous▶

Configuration Wizard

Available tasks:
*save a receiver configuration
*recall a saved configuration
*delete a saved configuration

21:11:02
Display Apps▶
Display Format▶
Baud Rates▶

System Setup Menu

Available tasks:
*display the receiver applications
*change the display format (update rate and units)
*set the baud rate

21:14:21
Config▶
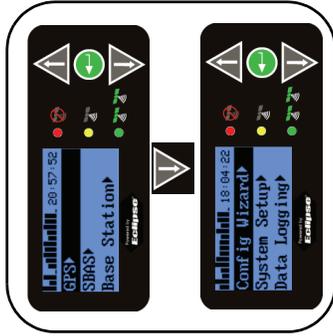NO DISK PRESENT
Back▶

Data Logging Menu

Available tasks:
*start logging
*end logging
*name the log
*include receiver details in the log
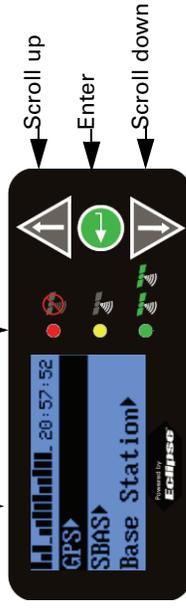*select the log file type [CSV (Microsoft Excel), Raw (binary), or KML (Google Maps)]

Warning! Disk must be inserted to log data.

How To: Setup

Selecting the Differential Type

1. Select **SBAS** from the main menu.

[display: GPS / SBAS / Base Station — 20:57:52]

2. Select **Diff** and select the desired differential source.

[display: Signal Status / Satellites / Diff SBAS — 21:02:53]

3. Press Enter to save.

Entering a Subscription Code

1. Select **System Setup** from the main menu.

[display: System Setup / Data Logging / GPS — 20:40:38]

2. Select **Subscription**.

[display: Subscription / Language / Back — 20:41:16]

3. Enter the subscription code.

[display: ▶6730DF249 / Language / Back — 18:05:55]

4. Press Enter to save.

How To: Operation

Quick Start

The A221 Smart Antenna is ready to use right out of the box. The default settings are:

- differential source: WAAS (SBAS)
- units: metric

To change the default settings, use the **System Setup** menu or refer to the User Guide for further help.

1. Power the A221 Smart Antenna. The antenna is automatically "on" upon connecting a power source. *Tip: The red LED indicates power is on.*

2. (Optional) Select the **Configuration Wizard** and **GPS** menus to change receiver configuration parameters if desired.

[display: Config Wizard / System Setup / Data Logging — 18:04:22]

3. (Optional) Prepare to log job data. Insert a USB memory stick and use the **Data Logging** menu to set logging details.

[display: Data Logging / GPS / SBAS — 20:45:12]

Warning! Disk must be inserted to log data.

4. Wait for GPS and DGPS lock. The A221 Smart Antenna typically takes less than 60 seconds to achieve a position lock.

Tip: The green LED indicates you are ready to start the job.

5. Begin working!

Additional/Optional Features

Using RTK Mode

The A221 Smart Antenna automatically uses the current location as a reference point.

*Tip: To set an alternate reference point, select **Reference** from the **Base Station** menu.*

1. Place the base station at least 1 meter (3 feet) away from the rover radio, with an unobstructed view of the sky.

2. Place the base station at least 50 meters (160 feet) from any obstructions.

3. Set the base station and rover to the same radio configuration.

4. Begin working!