Managing Configurations

You can save, return to, and delete configurations.

Saving a Configuration

1. From the Top menu, select **Config Wizard > Proceed Wizard > Create New**.

2. Select **Enter Name**, use the **Up Arrow** and **Down Arrow** buttons to enter a name, then press **Enter**.

3. Scroll to and select **Save to Location**.

4. Scroll to the desired location (such as Not Used1) and press **Enter** to save.

Returning to a Saved Configuration

1. From the Top menu, select **Config Wizard > Use Previous**.

2. Scroll to the desired configuration and press **Enter** to select it.

Deleting a Saved Configuration

1. From the Top menu, select **Config Wizard > Delete Saved**.

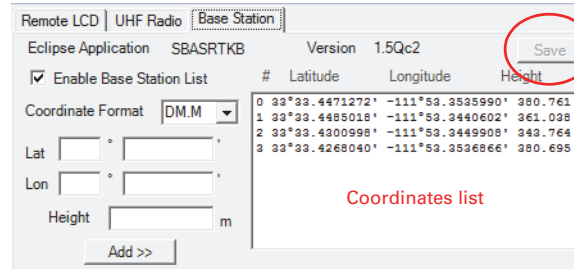2. Select the desired configuration and press **Enter** to delete it.

    Note: Once you press Enter, the saved configuration is permanently deleted.

Working with Coordinates

You can use the Base Station tab of Remote Control software to quickly add, import, export, and delete base station coordinates (make sure the **Enable Base Station List** check box is selected).

You must click the **Save** button (circled below) before exiting Remote Control to save your changes (adding, deleting, and importing coordinates).

Coordinates list

Adding Base Station Coordinates

1. Select the appropriate format from the **Coordinate Format** drop-down list.

2. Enter the desired latitude, longitude, and height values in the **Lat**, **Lon**, and **Height** fields.

3. Click the **Add** button. The new coordinates point (Lat/Lon/Height) is added to the coordinates list.

Importing Base Station Coordinates

1. Right-click the coordinates list, and from the pop-up menu click **Import Coordinates**.

2. In the Open window navigate to and select the coordinates file you want to import and click **Open**. The coordinates are added to the coordinates list on the Base Station tab.

Exporting Base Station Coordinates

1. Right-click the coordinates list, and from the pop-up menu click **Export Coordinates**.

2. In the Open window navigate to the location where you want to export the coordinates and click **Open**. The coordinates are exported.

Deleting a Base Station Coordinates Point

- In the coordinates list select (highlight) the coordinates point you want to delete, right-click the point, then from the pop-up menu click **Delete #<coords #>**. The coordinates point is deleted.

Deleting All Base Station Coordinates

- Right-click the coordinates list, and from the pop-up menu click **Delete All Coordinates**. The coordinates are deleted.
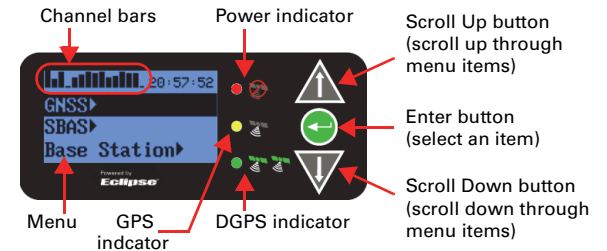

Outback A321™
Quick Reference Guide

Part Number: 875-0294-000 Rev A1
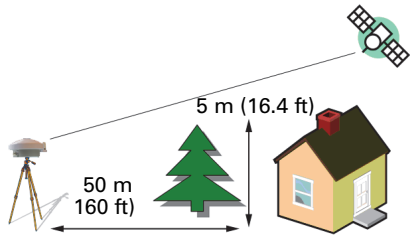

Understanding the Display Panel

Channel bars — Power indicator — Scroll Up button (scroll up through menu items) — Enter button (select an item) — Scroll Down button (scroll down through menu items) — Menu — GPS indcator — DGPS indicator

Reading the LEDs

LED	Function
	Power (red) = Power on
	GPS (yellow) = GPS lock *solid LED = GPS lock* *blinking LED = acquiring data*
	DGPS (green) = DGPS position *solid LED = diff position achieved* *blinking LED = sending diff corrections*

Begin Using the A321

1. Place the base station in a location with an unobstructed view of the sky and at least 50 meters (160 feet) from any obstructions.

5 m (16.4 ft)

50 m 160 ft)

2. Select the desired radio channel/frequency.

    Note: Base and rover configurations must match. For 900 MHz radios you set the channel. For 400 MHz radios you set the frequency.

    a. From the Top menu, select **Base Station > Radio** to display radio details (manufacturer, version, and channel).

    MFR: MICROHARD
    Version: v3.1092
    Channel▶ 1

    b. Press **Enter** to select the Channel field.

    Channel▶ 1
    VSWR: 3.904
    Back▶

    c. Use the **Up Arrow** and **Down Arrow** buttons to select the desired channel, then press **Enter** to save.

    Channel⬍ 2
    VSWR: 4.135
    Back▶

    d. Select **Back** to return to the previous menu.

3. Wait for RTK lock (maximum accuracy). The screen cycles through the displays at right.

    Time To Go: 286s
    DiffTx▶ DFX
    Show Reference▶

    Countdown to position lock

    Note: It takes 3 - 5 minutes for the base station to achieve RTK lock in an unknown location. It typically takes the base station less than 60 seconds to achieve RTK lock in a known location.

    Converged
    DiffTx▶ DFX
    Show Reference▶

    Position lock

    You are ready to use your A321 base station.

    Res rms: 0.3m
    σ-a: 0.2m
    σ-b: 0.2m
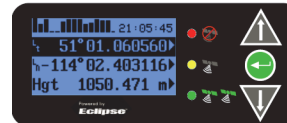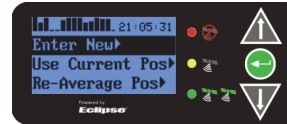
    GPS Position Status screen

Setting an Alternate Reference Point

1. From the Top menu, select **Base Station > Reference > Set New Reference > Enter New**.

    Enter New▶
    Use Current Pos▶
    Re-Average Pos▶

2. Enter the desired coordinates.

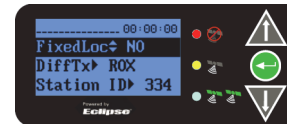   Lt   51°01.060560▶
    Ln -114°02.403116▶
    Hgt 1050.471 m▶

Setting a Fixed Base Station

You have the following options when setting a fixed location for your base station:
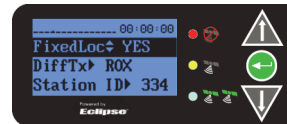
- Entering new reference information manually
- Using the unit's current position
- Using an average of the unit's current position (averaging occurs for 300 sec)
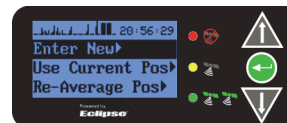
Manually Entering Fixed Coordinates

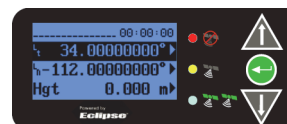1. From the Top menu, select **Base Station > Reference > FixedLoc**.

    FixedLoc⬍ NO
    DiffTx▶ ROX
    Station ID▶ 334

2. Use the **Up Arrow** or **Down Arrow** button to change the value to Yes and then press **Enter**.

    FixedLoc⬍ YES
    DiffTx▶ ROX
    Station ID▶ 334

3. Select **Enter New**. Lt, Ln, and Hgt are displayed with Lt highlighted.

    Enter New▶
    Use Current Pos▶
    Re-Average Pos▶

4. Enter the desired coordinate information: latitude (Lt), longitude (Ln), and height (Hgt).

    Lt   34.00000000°▶
    Ln -112.00000000°▶
    Hgt   0.000 m▶

5. Scroll to and select **Set Reference**. The screen changes to show the Time To Go and then Time To Go changes to Converged (if the unit converges on the coordinates).

    Set Reference▶
    Back▶
    Top Menu▶

Using the Current Position

1. From the Top menu, select **Base Station > Reference > FixedLoc**.

    FixedLoc⬍ NO
    DiffTx▶ ROX
    Station ID▶ 334

2. Use the **Up Arrow** or **Down Arrow** button to change the value to Yes and then press **Enter**.

    FixedLoc⬍ YES
    DiffTx▶ ROX
    Station ID▶ 334

3. Scroll to and select **Use Current Pos**. The screen changes to show the Time To Go and then Time To Go changes to Converged (if the unit converges on the coordinates).

    Use Current Pos▶
    Re-Average Pos▶
    Back▶

Using a Re-Averaged Position

1. From the Top menu, select **Base Station > Reference > FixedLoc**.

    FixedLoc⬍ NO
    DiffTx▶ ROX
    Station ID▶ 334

2. Use the **Up Arrow** or **Down Arrow** button to change the value to Yes and then press **Enter**.

    FixedLoc⬍ YES
    DiffTx▶ ROX
    Station ID▶ 334

3. Scroll to and select **Re-Average Pos**. The screen changes to show the Time To Go and the A321 counts down from 300 seconds to zero, after which Time To Go changes to Converged (if the unit converges on the coordinates).

    Re-Average Pos▶
    Back▶
    Top Menu▶

Setting a Portable Base Station

1. From the Top menu, select **Base Station > Reference > FixedLoc**.

    FixedLoc⬍ YES
    DiffTx▶ ROX
    Station ID▶ 334

2. Use the **Up Arrow** or **Down Arrow** button to change the value from Yes to No and then press **Enter**.

    FixedLoc▶ NO
    DiffTx▶ ROX
    Station ID▶ 334