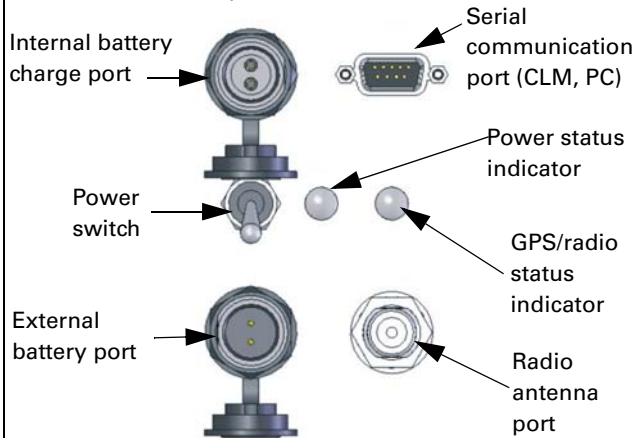


Base Station Communication Ports:

The base station's control panel has four ports:

- Internal battery charge port
- External battery port
- 9-pin serial communication port
- Radio antenna port

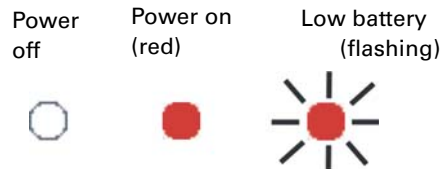


The serial communication port is used for radio configuration, base point editing, advanced diagnostics and firmware updates. The radio antenna port is used by the base station for transmissions.

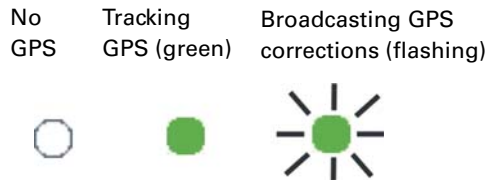
LED Information:

There are two LEDs on the base station control panel:

Base power status indicator



Base GPS/radio indicator



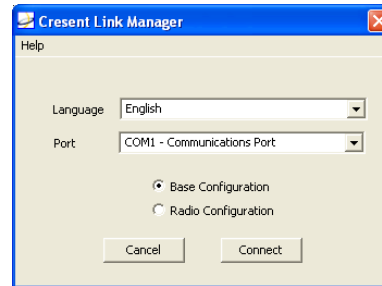
Base Station Configuration:

The base station will record a reference point at the location the first time it is used in a field. Ideally, the base station will remain at the exact, same position between applications.

To establish a new reference position, place the base station at a location at least 10 meters (32.8 feet) away from previous locations, or use the CLM program to assign a new reference point.

To set a reference point using the CLM program:

1. Attach the base station to a computer using a 9-pin serial cable.
2. Open the CLM program on the computer. (The base station must be turned on.)



3. Select the language from the **Language** drop down list, and the com port from the **Port** drop down list.
4. Select the **Base Configuration** option.
5. Click the **Connect** button to open the Connection Establishment window and connect to the base station.
6. Once a connection is established, click the **Next** button to open the Base Configuration window.
7. Enter the base station's coordinates into the **Latitude**, **Longitude** and **Altitude** field of the Add Coordinates (DMS) section. If the base station's coordinates are known, they can be entered into the **Latitude**, **Longitude** and **Altitude** field of the Decimal Coordinate section. Entering values into either section will automatically compute the values for the other section. The coordinate system adheres to the WGS-84 standard.
8. Click the **Add** button to add the coordinates to the coordinates list.
9. Click the **Write Coordinates** button to save the coordinates list to the base station.



BaseLineX

Quick Reference Guide

Part Number: 875-0221-000



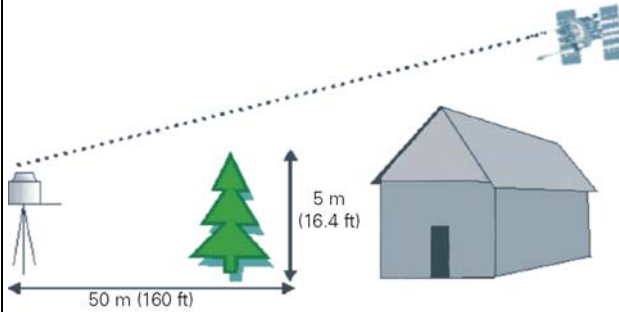
Equipment:

The following equipment is included with the BaseLineX system:

- Base station (DGPS receiver, radio transmitter, battery, GPS antenna, radio antenna/bracket and cable)
- Tripod
- External power cables
- Battery charger
- Rover radio (radio antenna, radio receiver, power/communication cable)

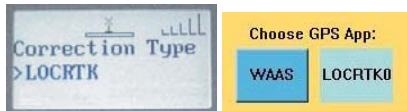
Base and Rover Installation:

1. Attach the base station to the tripod.
2. Place the base station at the edge of field with no obstructions around the unit. Make sure the unit is at least 50 meters (164 feet) from obstructions.



Ensure the base station and rover have a “clear line of sight” up to 5 kilometers (3 miles) or less .

3. Power on the base station.
4. Attach rover radio, with the antenna, on the top of the vehicle. Make sure the rover radio antenna and GPS antenna are 1 meter (3 feet) apart.
5. Replace the standard GLA3 GPS antenna with the new CDA3-RTK antenna, if applicable.
6. Connect the rover system to the L-Dif connector on the back of the Outback S2 console or Outback S3 console.
7. Power up the S2 or S3 and change correction type to LOCRTK or RTK.





Configuring the Rover Radio Using the S3

1. Ensure that the base unit radio and the rover radio channel match by pressing the **Radio** button on the right side of the GPS Status screen. The Radio screen appears.
2. Change the channel by selecting the **Radio ID** field on the Radio screen. The system will display the Radio Edit screen for the detected radio.
3. Enter the Radio ID channel (the Radio ID should be the last 2 digits of the base station’s serial number) or the frequency and touch the **Ok** button to save your changes.

Base and Rover Installation: (Cont.)

Configuring the Rover Radio using the S2

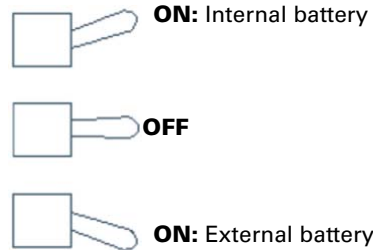
1. Ensure that the base unit radio and the rover radio channel match by selecting the Radio Link ID in the S2 Service Menu. Scroll down to “Service Menu” in the Setup menu to get to the Radio Link ID.

2. Change the Radio Link ID in the Service Menu if necessary. (The Radio Link ID should be the last 2 digits of the base station’s serial number.)

3. Press the **Enter** button to save the change.

Powering the Base Station:

The base station has two options for a power source:

- Internal battery
- External battery

The power source can be selected with the 3-position power switch.



- Turn the power switch up to use power from the internal battery.
- Turn the power switch down to use power from an external battery.

Wait for the power status indicator LED to turn red to indicate power. This will take up to 10 seconds. The unit will automatically compute a new position, or use a previously saved position, and start broadcasting.

Battery Use and Charging:

The internal battery provides up to 24 hours of field operation. The base station can run continuously if it is plugged into the battery charger. The internal battery can be charged at any time with the power switch in any position.

To recharge the internal battery:

1. Attach the 12 volt charger to the base station charge port.



2. Plug the AC cord from the battery charger into a wall AC outlet.

The battery charger has a multi color LED to indicate the charging status.

- Red indicates the battery is charging
- Orange indicates the battery is 80 percent charged
- Green indicates the battery is 100 percent charged and charger is in standby

To use an external battery:

An external 12 volt automotive battery can be used to extend the field operation time.

1. Attach the external battery cable to the standard power cable.
2. Connect the external battery cable to a 12 volt automotive battery.



3. Attach the standard power cable to the base station external battery port.
4. Turn the base station power switch to the down position to supply external power to the base station.