Carlson Software Inc.

33 East 2nd Street Maysville, KY 41056 www.carlsonsw.com

Phone: (606) 564-5028 Fax: (606) 564-6422

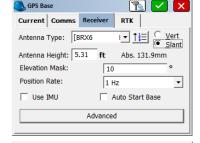
This is in regards to using SurvCE 6.02 or higher to configure a BRx6+ base / rover for RTK using the UHF radios while at the same time **logging raw static** to your BRx6+ base for post-processing.

Here is the instructions for connecting a BRx6+ base and rover using the internal UHF radios:

- 1) Power on your BRx6+ base and then tap Equip / GPS Base and set it for Manufacturer: Carlson and Model: BRx6+
- 2) Tap the "Comms" tab and set it for "Type: Bluetooth" and "BT Type: Windows Mobile" and tap the "wrenches" icon to the right. Tap "Find Device" and follow the prompts to select the serial number of your BRx6+ base then tap the Bluetooth plug icon in the top middle



3) Then tap the Receiver tab and tap next to "Slant" and measure up to the line where the top Blue cap meets the bottom Grey housing as shown in the image to the right with the Arrow symbol to use for your Antenna height



Silent

Configure Constellations

Log Raw Data to Receiver

Send file after config

Configure NMEA Output

Audio Mode:

- 5) To log raw data at your Base while you are using your GPS Rover tap the "Advanced" button then check the box for "Log Raw Data to Receiver" and tap the green check to save your changes
- 4) Attach the silver metal bracket to the bottom of the BRx6+ base then attach the short cable to the UHF port on the left as you are looking at the front panel of the BRx6+. Connect the **QT400-T antenna** to the bracket so it points straight up in the air.
- 5) Tap the RTK tab and set it for "Device: Internal UHF" and "Message Type: RTCM V3.2"
- 6) Tap the "wrenches" next to "Device: Internal UHF" and fill out the radio using the settings below then tap the Green Check:

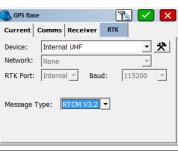
Protocol: **Satel**Power: **1 watt**Channel: 1: 0 Mhz

New Channel Frequency: 461.0000

Channel Spacing: **25khz**Forward Error Correction: **On**

*** If you have an FCC licensed frequency or a custom frequency you want to use you can type this into the "New Channel Frequency" box and it will program Channel #1 to the new frequency.

7) Tap the Green Check and use one of the options in the "From New Position" or the "From Known position" to start the GPS base



| Configure Internal UHF Radio | |
|------------------------------|-------------------------|
| Radio FW Version: | V07.27.2.0.6.3(403-473) |
| Protocol: | Satel |
| Power: | 1 Watt |
| Modulation | 4FSK 🔻 |
| Channel: | 1: 0.0000 MHz |
| New Channel Frequency (| 461.00000 |
| Channel Spacing: | 25 kHz |
| Forward Error Correction | On 💌 |
| | |

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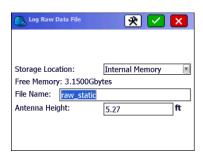


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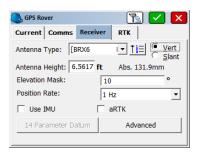
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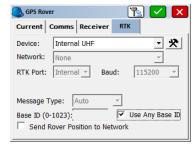
8) After the RTK base setup is complete the "Log Raw Data File" screen will be displayed where you can **tap the green check** to accept the settings and begin recording raw static to your BRx6+ base.



- 9) Power on the BRx6+ Rover and make sure the UHF antenna is screwed in to the left side (the port labeled UHF)
- 10) Tap Equip / GPS Rover and repeat Step #2 above to connect to the Rover by Bluetooth
- 11) In the Receiver tab type in the Antenna height of 6.5617 feet set to "Vert" for vertical if you are using the 2 meter pole that comes with it



12) Tap the RTK tab and set it for "Device: Internal UHF" and make sure to check the box next to "Use any Base ID"



- 13) Tap the "wrenches" next to "Device: Internal UHF" and fill it out using the exact same settings as the ones you used for the base setup above then tap the Green Check to save your changes Protocol: **Satel** / Power: **1 watt** / Channel: 1: 0 Mhz

 New Channel Frequency: **461.0000** / Channel Spacing: **25khz** Forward Error Correction: **On**
- *** If you used a custom frequency for the base other than 461.0000 you will need to type in the same exact frequency you used for your Base Radio in the "New Channel Frequency" box below "1: 0MHz"
- 14) Now you can tap the Green Check to initialize the Rover and go into Equip / Monitor Skyplot and check to see if you are getting a FIXED solution
- 15) After your BRx6+ base has recorded the static data for the length of time required (such as 30 minutes or 2 hours) you can walk back over next to your BRx6+ and tap Equip / GPS Raw Only and set it for "Manufacturer: Carlson" and "Model: BRx6+" then tap the "Comms" tab and set it for "Type: Bluetooth" and set the "Device:" to the serial number of your BRx6+ base and tap the Green Check. You will be prompted "Receiver is currently logging... Do you want to close this file and start a new one?" 16) Tap "Yes" to close the file and stop recording static then tap the red "X" to return to the main menu.

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