

BASE / ROVER SETUP (SurvCE)

*make sure antennas are installed on both base and rover receivers

CONFIGURE BASE

- Turn on base receiver - Press F1 for current settings – should say UHF, Base and Channel 1

To change the Communication mode, click the F2 key two times: after she says Communications Mode, toggle through the options with F2 - Press the power button to lock in the setting

To change the Setup Mode, click the F1 key two times: after she says Mode, toggle through the options with F1 - Press the power button to lock in the setting

To change the Channel, press F2 until the “ding” sounds, Press F2 to go up by 1 or press F1 to go down by one – Press the power button to lock in the setting

CONFIGURE ROVER

Turn on the rover receiver - Press F1 for current settings – should say UHF and Rover

See above to change the Setup and Communication Mode settings

Press F2 until the “ding” sounds to verify the Channel setting – *See above to change the channel*

- Turn on the data collector and start SurvCE
- Continue with last job (or start a new job)
- Click on Connect to last Bluetooth device
- Go to Equipment, GPS base
- Current tab - Champion Instruments and Champion TKO – (*click on Check Mark only if changes were made for any of these tabs*)
- Comms tab - Bluetooth, Windows Mobile – Device # of the Base receiver
- Select Base receiver # to Bluetooth and click the Bluetooth connect button above the receiver tab (should say successful connection)
- Receiver tab - TKO V30 GNSS 101.0 mm, vertical, ENTER antenna height, elevation mask 10 and position rate 1 Hz
- RTK tab - Internal UHF and CMR+
- Click on the Configure button beside Internal UHF
- Configure Internal UHF screen – Power 1 Watt and Channel 1 and Click Check Mark
- Click on Check Mark again
- You will be prompted on how to start the survey – Read from GPS, Enter Lat/Long, or Enter Grid Sys Coords
- Choose by # and enter the number of epochs – Click on Check Mark to take an Autonomous reading
- No broadcast ID and continue with Base Setup – Yes, Save Settings, Yes
- Enter same name as your job file and store in the Data folder – Click on Check Mark

CONT CONFIGURE ROVER

Go to Equipment, GPS rover

Go through the same tabs above to verify settings, starting with the Current tab

- Comms tab – pick the Rover receiver # to Bluetooth and click the Bluetooth connect button
- Receiver tab – enter antenna height – defaults at 6.562 ft (2m)
- RTK tab – use any base ID (can be checked), Click the Configure button
- Power – 500mW and Channel 1 and Click Check Mark
- Check Mark to the Main Menu
- Go to monitor sky plot to verify a FIXED position