TRIUMPH-VS AS A BASE VIA UHF

Note: To return to *Main* screen, press the *Home* button [icon] on the front panel of TRIUMPH-VS.

Note: Always tap *Apply* or press the *Apply* button [icon], to save the settings and parameters into receiver's memory.

1. To set up the base station, tap *Settings* on the *Main* screen:

Figure 1. Settings

2. Then *Communication ▸ UHF:*

Figure 2. Communications ▸ UHF

3. Set the UHF modem parameters:
   - Frequency
   - Protocol and its parameters

- Output power
- Specify the antenna (external or internal)

Figure 3. UHF parameters

4. To setup the frequency, select the value from the list, by tapping on the *Frequency.* If there is no needed frequency value, tap *Add* or *Edit* and insert/edit the frequency:
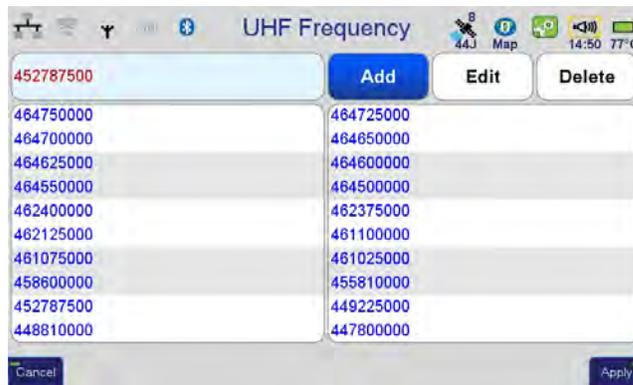

Figure 4. UHF Frequency

5. The protocol parameters can be reviewed/ changed by tapping on the *Protocol* button. Use JAVAD protocol type if base and rover are the JAVAD GNSS receivers .

Figure 5. Protocol parameters

6. Modem is configured now. Return to *Main* screen and tap *Settings* ▸ *GNSS*.

Figure 6. GNSS

7. Tap *Receive Data (Rover)* and ensure the reception from all channels is turned off.

8. Then tap *Transmit Data (Base)* and set up the parameters of the transmit data: `RTK-JPS full` and period `1 Hz`.

Figure 7. Transmit data parameters

9. Click on the UHF icon, check the *Sent* parameter. Ensure this parameter value is on the increase.
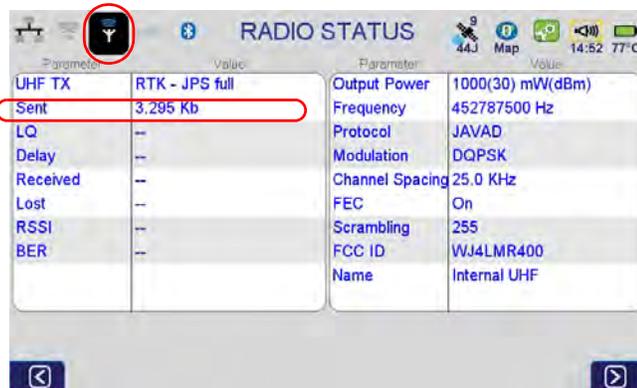

Figure 8. Status of the radio

10. Specify antenna parameters and antenna height. Tap *Settings* ▸ *Antenna*:

Figure 9. Antenna parameters

Select antenna type (internal/external) and enter the antenna height. If the internal antenna is selected, specify the vertical height offset for Triumph-VS (0.04 m).

11. Specify the mounting method (*Settings* ▸ *Mounting Method*) - *On Tripod*. Disable *Correct by Compass*, *Correct by Level,* and *Lift&Tilt*.
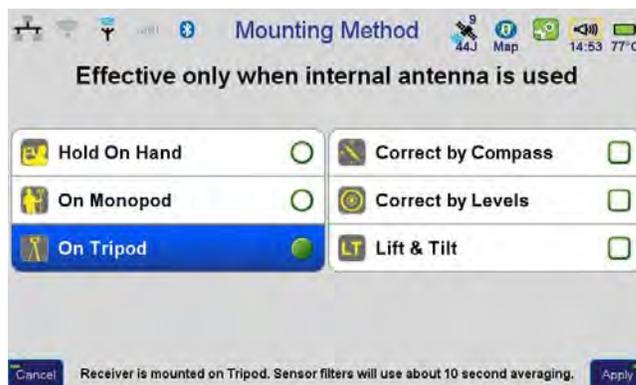

Figure 10. Mounting Method

12. Ensure the receipt of the satellite signals is turned on, tap *Settings* ▸ *GNSS*:

Figure 11. GNSS

13. If the data recording for base station is needed, activate the data recording in *Record Data,* specify what data will be recorded to internal memory and/or SD card:
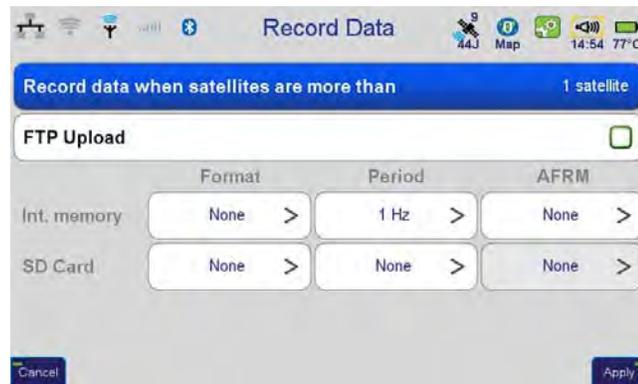

Figure 12. Record data

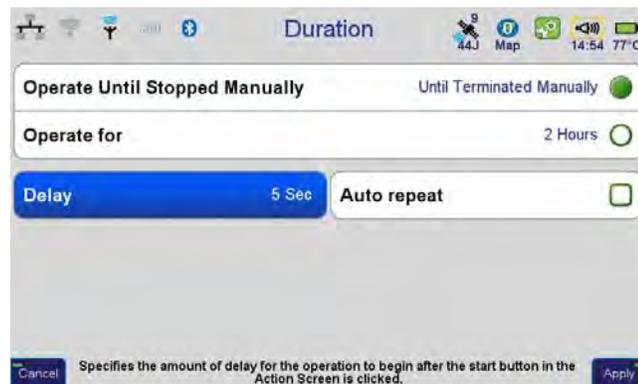14. Set up the duration: stop record manually or specify the time. Disable *Delay* and *Auto repeat*:

Figure 13. Duration parameters

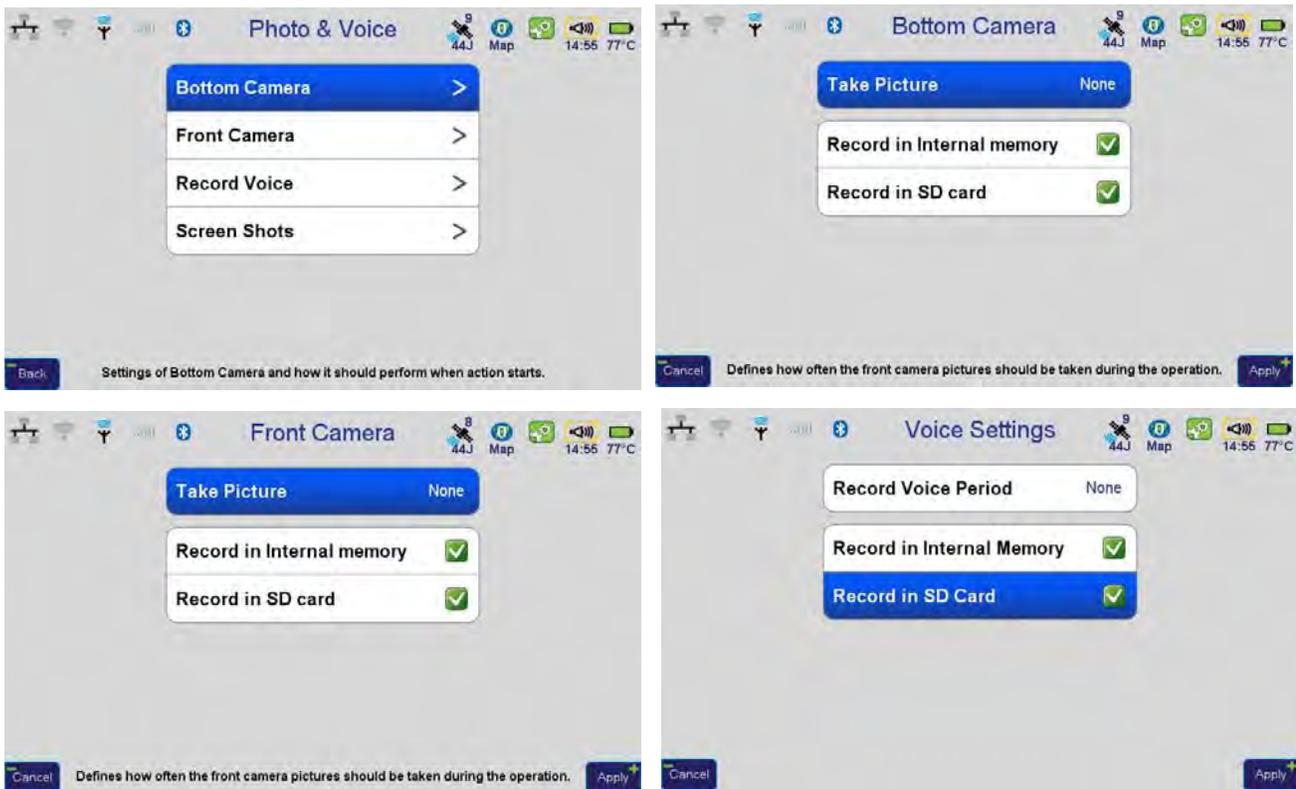15. Disable voice and photo recording in the appropriate windows:

Figure 14. Photo and Voice recording parameters

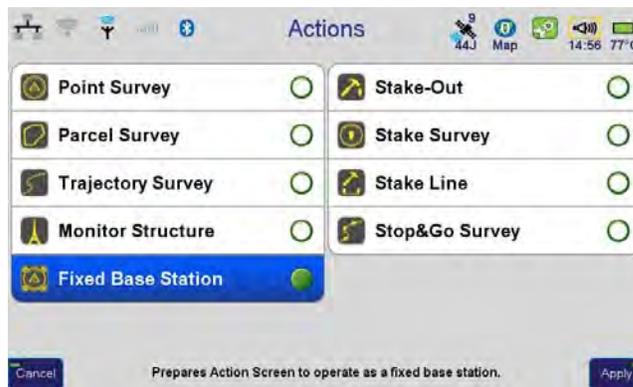16. Tap *Settings* ▶ *Actions*, and select *Fixed Base Station*

Figure 15. Actions ▶ Fixed Base Station

17. Press *Action* button ▱ on the front of TRIUMPH-VS to switch to *Action* screen. Tap on the Fixed Base Station name and set the base parameters :
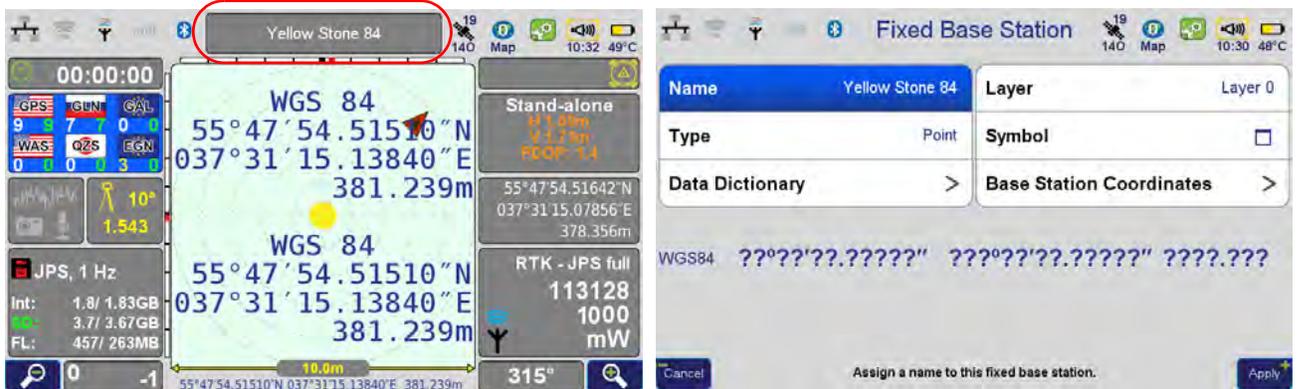

Figure 16. Base station parameters

18. Enter Base station coordinates: *Base Station Coordinates ▶ Enter Position:*

Figure 17. Base station position

19. Tap *Apply* on all screens, then return to *Action* screen (by pressing *Action* button).

Figure 18. Action screen

20. Now base station is configured. Please do not move it!

21. Press *Action* button, to switch to *Command* screen and tap *Start*. To stop the base operation tap *Stop*.

Figure 19. Command screen

22. Press *Action* button, to return to *Action* screen. In the *Action* screen ensure the base station is transmitting corrections:

Figure 20. Base station is transmitting corrections

23. To disable Base station, after finishing the work, tap *Settings ▸ GNSS ▸ Transmit Data (Base)*, and set UHF modem format to None. Otherwise the base station operation will continue.