Trimble 5600
Bluetooth Dongle for SurvPRO using v5.6.2

Step	Action	Display
1	Replacing the Trimble radios used with the Trimble 5600 Instructions for SurvPRO v5.6.2, TDS/Spectra Precision Ranger Robotic instrument configuration, two Parani Bluetooth Dongles and a Trimble 5600 Robotic Total Station. NOTE: If the client has a long range Bluetooth data collector then the second Parani long range Bluetooth adapter would not be needed. **Contact eGPS if you wish to purchase these items:** **TWO of each of the following:** Parani-SD1000 Bluetooth Serial Adapter (Qty 1) DB9 Female to Male Gender / Null modem gender changer (included with each SD1000) Dipole Antenna - RP-SMA Right-Hand Thread, 5dBi Extended Battery pack for Parani-SD1000 External Power Adapter - Includes one of four regional power plugs **ONE** 5600 Geodimeter to Data Collector Cable w/ Power Clips 	

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2	Note; The data collector instrument configuration will need to be set to communicate with the instrument directly. Name: Trimble Parani (suggestion) Brand: Trimble Direct Connect Model: 5600 Auto Detect Serial Port: Com 1 Established Parani BT connection setup: See page three to set Parani communication from scratch a) Power On the 5600 Robot with the data collector connected by the cable to the instrument and battery b) Run through the leveling/calibration routine	
3	a) Once the leveling routine is completed, disconnect the Data Collector and plug in the OFF Bluetooth Dongle with / DB9 adapter to the serial port that the collector was plugged in to. Once it is plugged in, turn on the Dongle.	
4	a) Connect the other OFF Bluetooth Dongle to the Data, once it is plugged in to the Ranger port turn on the Dongle. The setup is complete and you should now be able to survey. Whenever you move the instrument or power it down you will need to start from step 2 again.	

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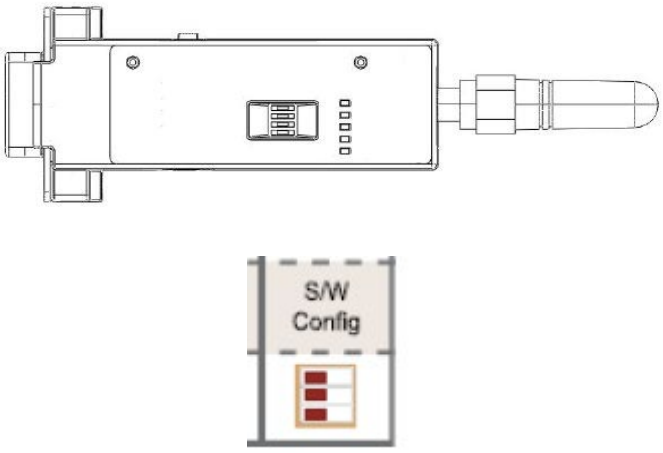
Step	Action	Display
1	**Parani Bluetooth Dongle Set up instructions** **a.)** On the Bluetooth Dongle, attach the extended life battery, attach the long range 5dBi antenna – short range pictured, and set the dip switches to S/W Config as shown (standard setting when newly purchased) To Pair the two Bluetooth devices: **b.)** For easy reference attach Null modem gender changer / DB9 adapter to SD1 then turn on both Parani. Once on, reset both of them by pressing the Factory Reset Button (paper clip works perfectly). **c.)** Press the Pairing Button of SD1 for 2 seconds until Mode LED blinks 3 times every 3 seconds. Keep the power ON. **d.)** Press the Pairing Button of SD2 for 2 seconds until Mode LED blinks 3 times every 3 seconds. Now press again the Pairing Button for 2 seconds until Mode LED blinks every second. **e.)** Wait for SD1 & SD2 to connect to each other until the Connect LED's of SD1 and SD2 blink every 1 second. It takes about 10 seconds to make a connection. If there are many Bluetooth devices nearby, it may take longer. **f.)** Turn SD1 off and on. Mode LED blinks twice in green every 3 seconds. **g.)** Turn SD2 off and on. Mode LED blinks in green every second. **h.)** Now SD1 and SD2 are configured to make an automatic connection to each other whenever they are powered on.