ALLTERRA™

Sonarmite Plus Setup in Access

- In Access, navigate to Menu/ Settings / Survey Styles/ select or copy the survey style you would like to use for the Hydro survey.
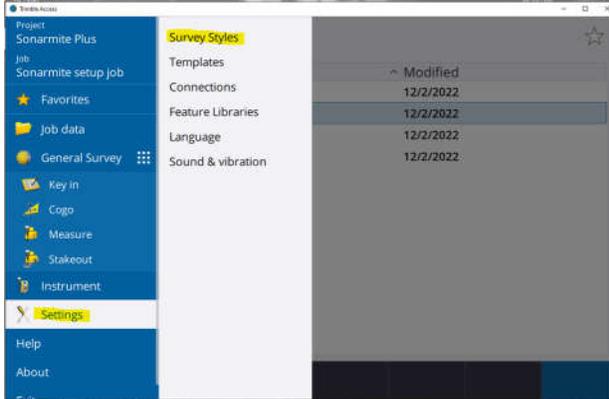
- Select the Echo Sounder settings in the Survey Style that you will be using.
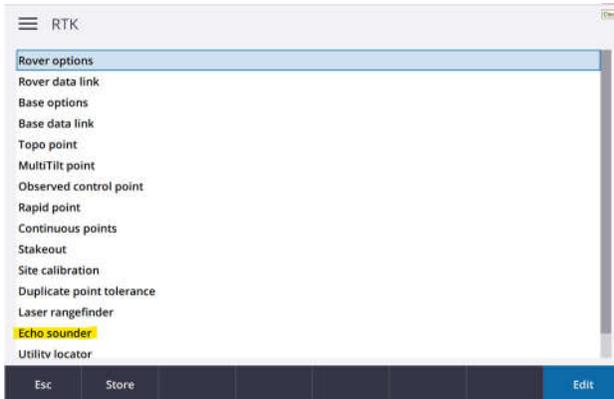
- Make the following selections on the Echo Sounder settings page.
- Select Accept and then select Store at the bottom of the next page.
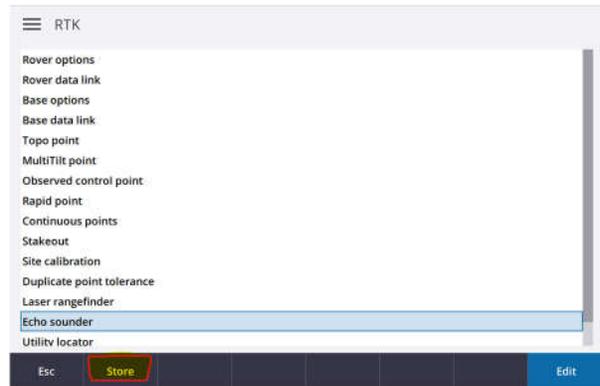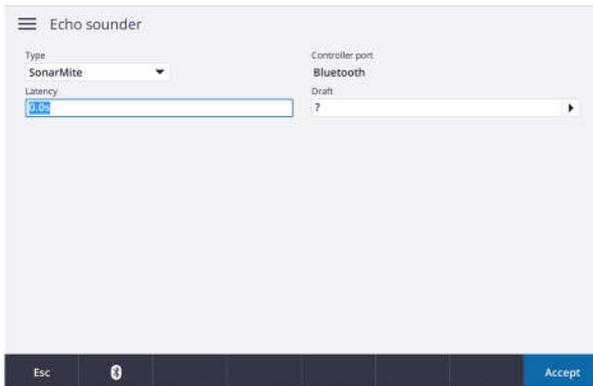
- Select the Menu/Settings/Connections click on the Bluetooth Tab.
- Turn on the Sonarmite Plus and connect the Transducer cable to the connector designated as Sonar/Charger.
- The Bluetooth light should begin blinking blue.
- Select the Search button at the bottom of the Bluetooth connection screen
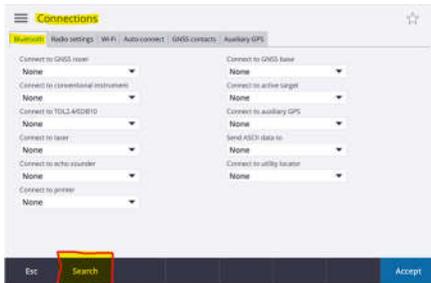
- Hydrolitexxx should populate in the discovered devices,
- Select the Hydrolite and then select Pair at the bottom corner of the screen
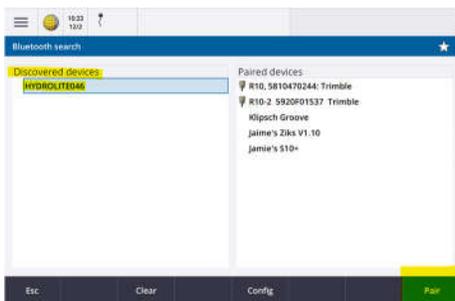
- Follow through with the connection prompts until you are asked for the Bluetooth password or PIN
- The Bluetooth password/PIN is in all capital letters: SEAFLOOR
- Select Accept.
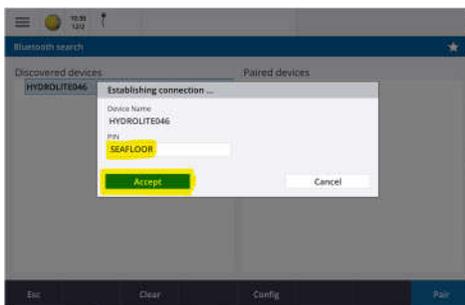
- On the next connection window select your device type as **Connect to echo sounder,** then select Accept again on the connections page.
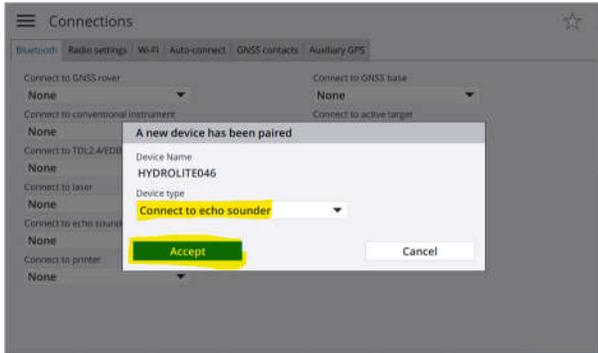
- To use the Sonarmite, start your survey with the survey style you added the Sonarmite settings to. Start your base and rover or your VRS rover as you normally would.
- Once you have initialization, you can go to Menu/Measure/and then Continous topo.
- Select your preferred continuous topo settings for data collection, i.e. a set time, set distance, Point range to begin with, code and antenna height. Begin your survey. You should see depths being referenced on the depth field on the screen.

Additional settings and tips

- To measure your rod height, you will need to measure to the bottom of the transducer that is threaded on at the base of the pole. The sonarmite comes with 3 x 2' pole sections. If you are using two sections of pole, your rod height would be 4' plus the height of the transducer at the base of the pole. The green Transducer height is 0.54sft. In this example, your rod height would be 4.54sft. If using 3 sections of pole, rod height would be 6.54sft.

- Assemble the pole sections into the Transom mount included in the sonarmite case.

- The transducer should be adjusted in the transom mount and lowered down into the water to your preferred depth. If you are trying to calculate the depth of the water, you will need to get an accurate draft measurement from the water surface down to the bottom of the transducer. This can later be added to the recorded depths to determine the actual water depth.

- For the best results, the sonar should be kept at a steady slow pace. This will ensure that you do not form an air bubble around the transducer which can result in no depth readings.

- You will need to maintain more than a foot of distance between the bottom of the transducer and the surface that you are measuring to. Failure to maintain the necessary distance will result in false readings. The blanking distance on the transducer is 300mm or 1.05 ft. Any depth readings captured within that 0-1.05 ft will populate as 1.05' in depth in your depth export. Any measurement with a null value or a depth between 0 to 1.05 ft will need to be omitted from your final data set.

- To export your data, you will need to run a custom style sheet export. These style sheets will need to be added into the Trimble Data/System Files folder on your data collector.

- For exporting the Sonarmite Plus, you will need to run the "Comma Delimited with Elevations and depths" export. This export will have the elevation and depth values separated in the CSV so that you can QC your data and omit the erroneous/blanking distance shots. After the data has been cleaned up, you can then subtract the depths from your elevations within M.S. Excel to get the true profile elevation.