

Chapter 16: USBL Calibration

USBL systems utilize multiple-transducers located very close together within a single transceiver head to measure to beacons. They measure a single range to a transponder and by using the very short baselines formed between the multiple transducers, the horizontal and vertical angle can also be determined. The term **Ultra Short Baseline Acoustics** is derived from the fact that the baselines between the transceivers located on the transducer head are very short. USBL acoustics can be used to position surface and subsurface vehicles.

In order to be used to their full capabilities, USBL systems require calibration. This chapter details the calibration processes required and how WinFrog performs them. **Note:** the actual addition of USBL devices to WinFrog and their association and use with vehicles is covered in the **USBL Acoustics** chapter earlier in this manual.

WinFrog's calibration functions use a rigorous **least squares** approach, utilizing all available data. This is an important point to remember when collecting and processing the data and will be covered in detail in the following sections.

USBL Calibration

The purpose of the USBL calibration is to determine the errors associated with the mounting orientation of the USBL hydrophone with respect to pitch, roll, and heading and the velocity errors associated with the velocity of sound data used in the USBL system. This is required in order to eliminate these sources of errors when using the USBL system to either position a remote vehicle with a beacon attached or the vehicle with the hydrophone attached from a fixed beacon.

The USBL calibration, as performed by WinFrog, uses a rigorous least squares adjustment to first determine the position of the beacon used for the calibration, and then to simultaneously solve for the four unknowns, pitch correction, roll correction, heading correction, and velocity (scale) correction.

When WinFrog performs the least squares adjustments it uses the USBL observations as ranges from the hydrophone to the beacon. If the data is collected in a symmetric pattern about the beacon, the use of ranges in the least squares adjustment will eliminate most of the effects of ray bending. This is because the ray bending mostly affects the direction of the ray with only a small effect on its length. And the length effect will mostly be eliminated with symmetrically collected data. WinFrog also allows you to calculate the effect of ray bending. This requires that the data come from a Sonardyne USBL system outputting the CSV Surveyor's Acoustic message.

This section details the steps to follow to perform the USBL calibration, including the following:

- Preparation of WinFrog for performing the calibration data collection and processing.
- Vessel track for data collection.
- Collecting the data.
- Reviewing and editing the data.

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- Chapter 2: Essential Elements of Winfrog User Manual
- Chapter 3: Winfrog User Manual in Everyday Life
- Chapter 4: Winfrog User Manual in Specific Contexts
- Chapter 5: Conclusion

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