Equipment

Prior to the survey, confirm that you have all necessary equipment and materials and are prepared to complete your stationary acoustic survey.

Table 1. Equipment checklist for NABat stationary acoustic surveys.

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| **Item**  |
| Ultrasonic bat detector  |
| Microphone  |
| Microphone cable ( ≥ 4 m) (optional, depending on detector model) |
| Weatherproof container (optional, depending on detector model) |
| Memory card(s) ( ≥ 32 GB)  |
| Batteries (freshly charged) |
| Materials to erect microphone (painter’s pole, rebar, mallet, etc.)  |
| Materials to secure detector/microphone cable (reusable zip ties, lashing straps, etc.)  |
| Datasheets or device with data collection app  |
| Camera  |
| GPS (set to NAD83 and latitude/longitude decimal degrees)  |

A review of all field equipment should be conducted before the start of each field season to ensure items are repaired or replaced in a timely manner before the season begins. Specifically, repair of bat detectors can take a substantial amount of time (> 3 months) given the limited number of companies able to conduct such repairs. Hence, a detector functionality check should be completed when the field season is over and/or prior to the subsequent field season. The detectors can be broken if they are not properly handled and well maintained throughout the field season and during the off-season. If using the detectors frequently, for the duration of the entire field season, a mid-season cleaning and functionality check is also recommended. This will help crews avoid costly technical issues in the field.