You can run SonoBatLIVE for uncompromised full-spectrum analysis and classification on any computer with a 64 bit processor. You only need a USB ultrasonic microphone and the computer becomes your detector’s electronics hardware and displays results in real time. Microsoft Surface Pros nicely fill this role, especially for mobile recording. They have an agile and flexible design such that once up and running you can pop off the key-board, and easily hold or support it with the kickstand. You can source affordable refurbished or used units. Make sure that you also get the keyboard cover (often sold separately). LIVE will run, albeit a bit clunky on the base model, but runs best with at least an i5 processor. They will run about 4 hours with a fully charged battery.

Any computer works well as a fixed viewing station, and with active USB extension cables you can site the microphone as far as a couple of hundred feet away. Tuning into bat TV at the processing station helps make slow nights at the nets much easier to endure, or you can run the cable into your home and enjoy knowing when bats fly overhead.

Of course you don’t have to watch the screen to benefit from SonoBatLIVE. It performs all the typical post-processing steps of scrubbing, metadata attributing, and classification as it runs. After a recording session you can view and vet results immediately. You can also set a time for SonoBatLIVE to start automatically.
Sample USB microphones:

- **Pettersson M500.** https://batmanagement.com/collections/bat-detectors/products/pettersson-m500-microphone
- **Binary Acoustic Technology AR-150-FG.**
  

You can daisy chain USB extension cables. Good to have a variety of lengths in your kit:

<table>
<thead>
<tr>
<th>Length</th>
<th>Cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 m; 16 ft</td>
<td><a href="https://www.amazon.com/Tripp-Lite-Hi-Speed-Extension-U026-016/dp/B0002D6QJO/ref=sr_1_16">https://www.amazon.com/Tripp-Lite-Hi-Speed-Extension-U026-016/dp/B0002D6QJO/ref=sr_1_16</a></td>
</tr>
<tr>
<td>20 m; 64 ft</td>
<td><a href="https://www.amazon.com/PTC-Meters-Extension-Repeater-Supports/dp/B0040IASMS/ref=sr_1_5">https://www.amazon.com/PTC-Meters-Extension-Repeater-Supports/dp/B0040IASMS/ref=sr_1_5</a></td>
</tr>
</tbody>
</table>

Or equivalent USB powered extension cables.

**Tip:** Use an overhand knot at connections to prevent your cables from disconnecting.

For **bat walks** and **mobile recording** select a back pack with a stiffener or stays, and some way to hold the pole in two places, top and bottom of the pack. Why bother extending your mic with a pole? See:

[https://sonobat.com/SonoBat_Recording_Primer/index.html](https://sonobat.com/SonoBat_Recording_Primer/index.html)

These telescoping poles work nicely as microphone mounts for backpacks (6.5 ft.):

[https://www.amazon.com/Flagpole-Go-Portable-Flagpole-Hide/dp/B000OWM2BY/ref=sr_1_12](https://www.amazon.com/Flagpole-Go-Portable-Flagpole-Hide/dp/B000OWM2BY/ref=sr_1_12)

Remove the flag mounting hardware (heat up the top tube to soften the heat melt glue to remove the finial) and finish with an end cap

[https://www.amazon.com/gp/product/B07BJKRP43/ref=oh_aui_search_detailpage](https://www.amazon.com/gp/product/B07BJKRP43/ref=oh_aui_search_detailpage)

Example backpack that works well:

[https://www.usagear.com/gear-s17/explore-bags](https://www.usagear.com/gear-s17/explore-bags)

Replace the buckle strap with a 6” loop of Velcro One-Wrap tape for a more secure pole connection.

...and it has a laptop compartment.
We have tried higher tech solutions, but still nothing beats rubber bands for short term deployments. They grip, and hold. Use a half dozen to attach a microphone securely to a pole; also great for securing cables, etc. Black ones last longer and look more stylish. ;)

Not as grippy-stretchy, but longer lasting out in the elements:

With a $2^{1/2}$ lb. 50 mAh Li ion battery and connector and you can run a LIVE recording station in the field all night and longer:

Additional ports to power other field gear.

This type plug connects it with a Surface Pro (plug into the 12V port on the battery).

Specialized microphone for longer distance deployments:

Binary Acoustic Technology AR180 EXT

Velcro One-Wrap works great for securing poles to vegetation or other supports.

Additional ports to power other field gear.

This type plug connects it with a Surface Pro (plug into the 12V port on the battery).

Specialized microphone for longer distance deployments:

Binary Acoustic Technology AR180 EXT