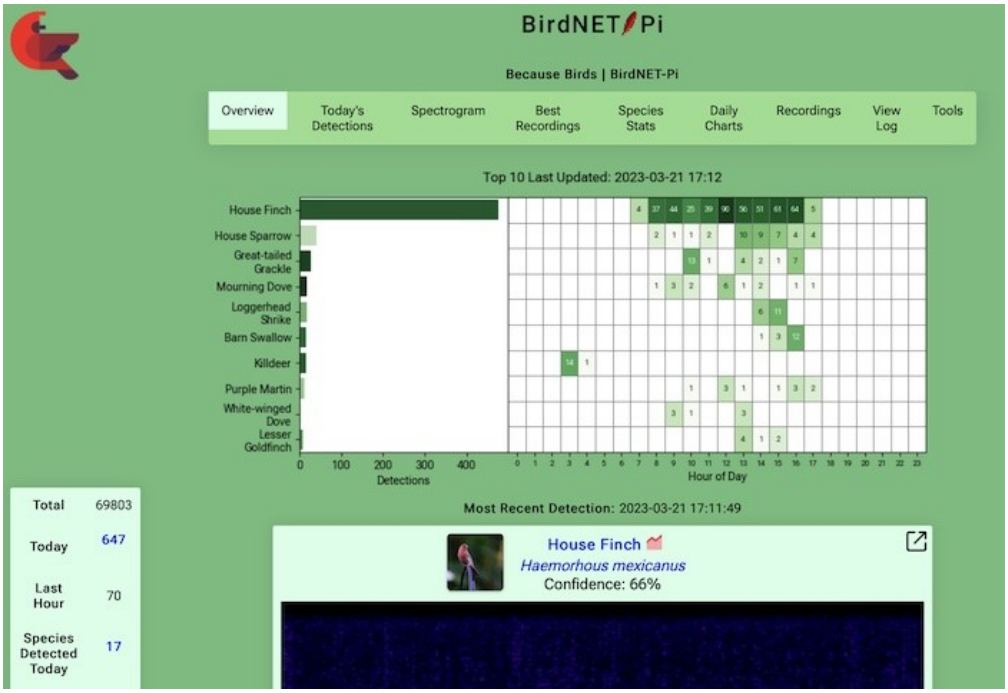
BirdNET-Pi Acoustic Bird ID Station



The BirdNET-Pi overview page with a heat map of the day's detections

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Description

BirdNET-Pi is an acoustic bird identification station running on Raspberry Pi. It listens 24/7, identifies and logs the birds it hears using Cornell Lab of Ornithology's BirdNET neural analysis model.

The detections are logged in the system and are submitted to BirdWeather.com. My station is configured to send Discord notifications when a new species is detected for the day.

History

My BirdNET-Pi station was launched in December 2022. As of March 2023, it is currently at 70,000 detections and counting.

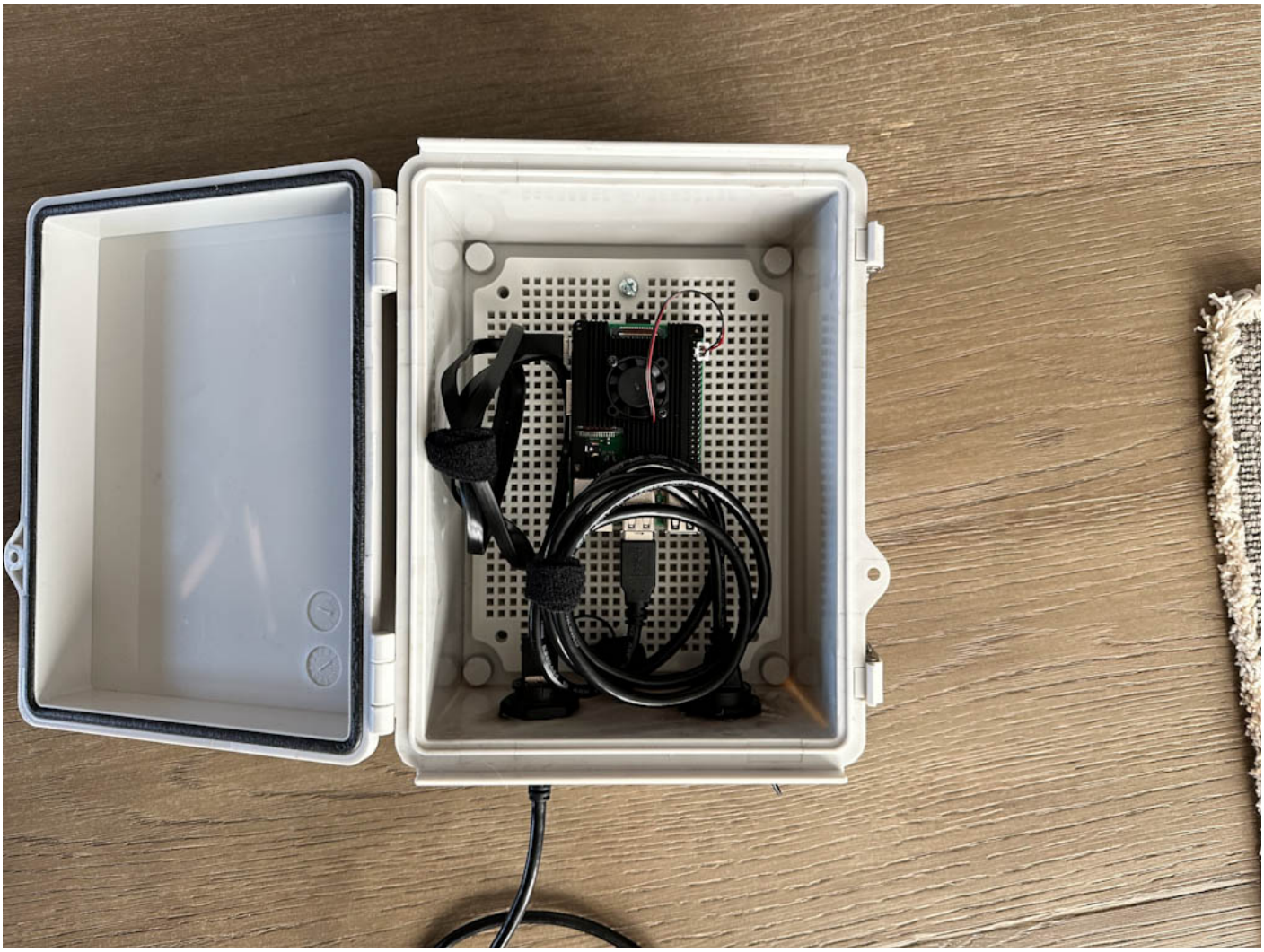
Technical details

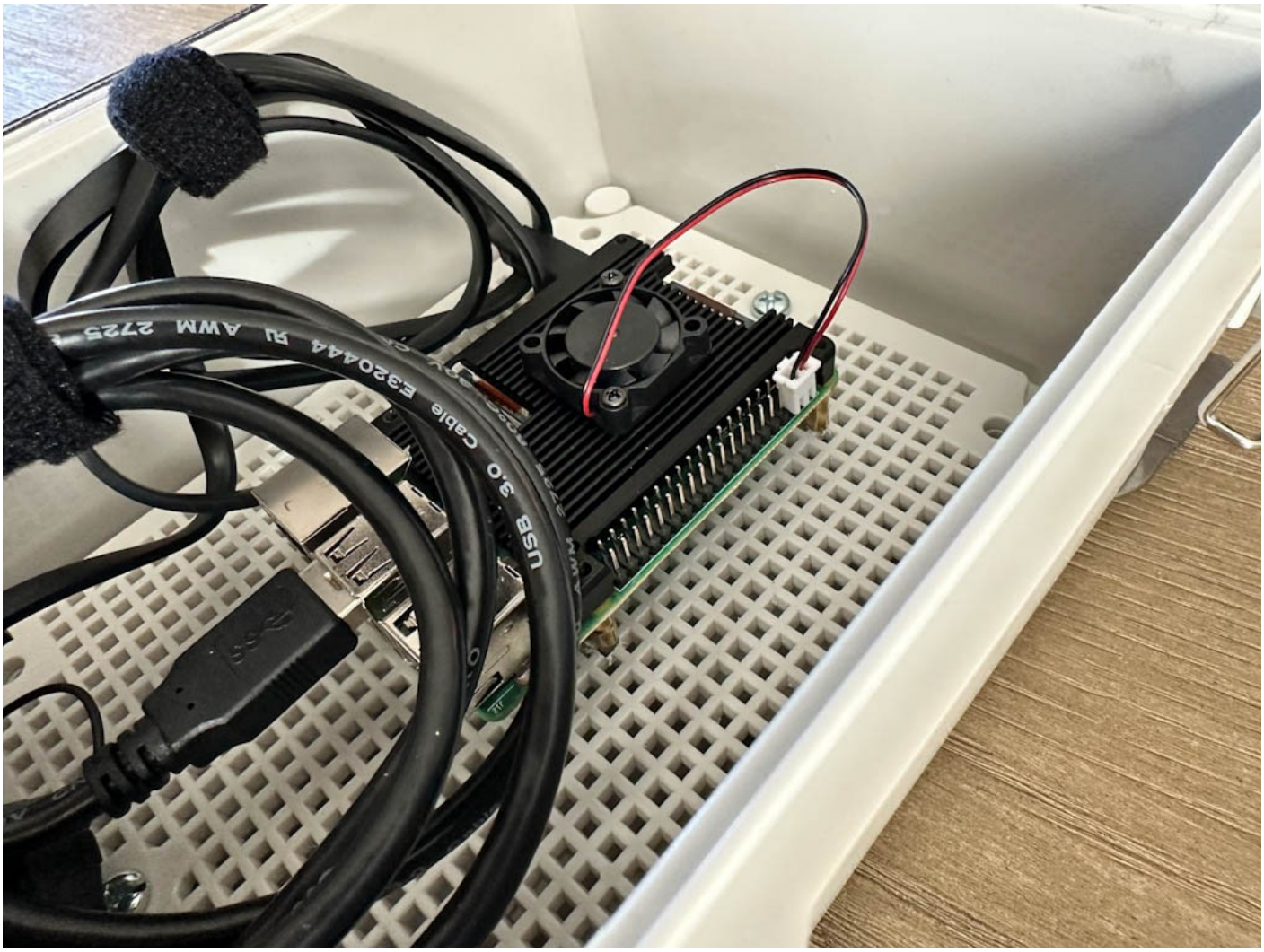
The BirdNET-Pi station is running on a Raspberry Pi 3B+. I built an outdoor enclosure for it and mounted it on the back of my house in the backyard.

Below are links to find the products used in this recording setup. These are Amazon affiliate links that help support my birding hobby at no cost to you.

Computing hardware	Raspberry Pi 3B+, 4, or Le Potato
Cooling	Heatsink + fan
Outdoor enclosure	QILIPSU Hinged Cover
I/O ports (x2)	CNLINKO USB 3.0 Connector
Microphone option #1 (USB)	USB Microphone
Microphone option #2 (3.5mm + sound card dongle)	Sound card + 3.5mm lavaliere mic
Installation method	Installation guide

Photos




USB 3.0 Cable E320444 AWM 2725

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