Echo Meter Touch 2 Ultrasonic Module

Welcome to Wildlife Acoustics.

The Echo Meter Touch 2 bat detector is a combination of hardware and software. This video will describe the Ultrasonic Module hardware component used to capture high frequency bat calls.

The Ultrasonic Module contains a microphone element with an acoustic horn for focusing the ultrasonic bat calls. The module also contains a microprocessor which digitizes the ultrasonic audio signal and sends it into the smart phone or tablet.

There are two versions of the Echo Meter Touch 2 Ultrasonic Module. The Echo Meter app senses which version of the module is currently connected. The Standard Ultrasonic Module operates up to 256 kHz sample rate and can capture up to 128 kHz frequency audio signals. The Echo Meter Touch 2 Pro Ultrasonic Module operates at 256 or 384 kHz sample rate and can capture up to 192 kHz audio signals.

The Pro model uses a different microphone element than the Standard model, which provides better signal to noise ratio and sensitivity. For a comparison of specifications between the Standard Ultrasonic Module and the Pro model, check the Echo Meter Touch 2 user guide or the Wildlife Acoustics web site.

The Echo Meter Touch 2 Ultrasonic Module is available with physical connection for Android or iOS devices. Wildlife Acoustics has made a great effort to support as many Android and iOS device models as possible. Please check the Wildlife Acoustics website to see which models of smartphones and tablets are tested and compatible.

Connection is simple. The Ultrasonic Module connects to the charging port of the device. Here you can see I'm connecting an Echo Meter Touch 2 Ultrasonic Module to an iPhone. Now I'll connect the Android model to an Android smartphone. Once the Echo Meter app is downloaded and installed, the software will automatically detect the Ultrasonic Module and you are ready to start monitoring bats.

Now that we've got the Ultrasonic Module connected, it's time to take a close look at the Echo Meter app.

Thank you for watching.