



# Binary Acoustic Technology

Digital Acoustic Processing

[www.binaryacoustictech.com](http://www.binaryacoustictech.com)

## FR125-EXT Field Recorder

### Product description:

The FR125-EXT is a low-power field recorder that is intended for overnight and extended duration monitoring projects. It operates with either an ultrasonic microphone or an external microphone element, so it can be used for bat or bird research.

The FR125-EXT employs full spectrum bat detection and recording technology. It is compatible with Time Expanded detection systems. The recordings can be processed using SCAN'R, SonoBat, and other similar software analysis packages that read WAV files.

A complete monitoring system can be assembled using a minimum of components. A typical overnight recording system consists of an FR125-EXT Field Recorder along with a BAT ultrasonic microphone, a USB thumb or flash drive, and a battery.

The FR125-EXT is primarily intended for unattended and extended duration monitoring projects. It includes an embedded microcontroller and a high-speed digitizing interface which allow it to operate an ultrasonic microphone along with a combination of external USB hard-drives, Compact Flash writers, or USB thumb-drives.

The FR125-EXT draws just 3 Watts and it is capable of recording up to two weeks using a small 40 Ah deep-cycle battery. It will operate continuously with the addition of a 20 Watt or larger solar panel, a deep-cycle battery and a solar charge controller.

Internally, the FR125-EXT runs an embedded version of SPECT'R software. It supports an operation timer, the WAVPACK loss-less compressed file format, sleep mode to conserve battery power, and a remote file transfer mode that will automatic transfer recordings back to a specified FTP site.

### Contact information:

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FR125-EXT Front and Rear Views

### Specifications:

#### Interface:

- One (1) RS-232 console connector
- Two (2) USB host ports
- One (1) Ethernet connector
- One (1) SDHC card slot
- One (1) BAT EXT mic connector

#### Compatible Accessories:

- AR125 Ultrasonic Receiver
- BAT ultrasonic microphone unit
- Blue Icicle microphone interface
- AirLink Raven-X cellular modem
- USB Thumb-drives
- USB Compact Flash writer
- USB enabled external hard drives

Power Requirements : +12V @ 3.0W (typ.)