



# Binary Acoustic Technology

Digital Acoustic Processing

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

## AR125-FG Ultrasonic Receiver

### Product description:

The AR125-FG is a professional quality ultrasonic receiver that is designed for ultrasonic recording and acoustic analysis. It employs a nearly omni directional, wide bandwidth ultrasonic element along with ultrasonic to digital conversion technology to produce a high quality, digitally sampled, acoustic stream that is injected directly into a laptop or lab computer for recording, and analysis.

The AR125-FG is specifically designed for laboratory and flight room applications where omni directionality and a wide ultrasonic frequency range are desired. It employs low noise circuitry along with 16-bit digital converters to achieve high sensitivity along with a large dynamic range. Typical applications include mice and rodent studies, bat flight rooms, and moth and insect research.

### Specifications:

Frequency Range : 1 to 125 KHz

Dynamic Range : > 78 dB (Full BW)  
> 84 dB (Audio BW)

Range Limits (SPL +/- 3 dB) :  
Max : 90 dB  
Min : 12 dB (Full) / 6 dB (audio)

Interface: USB 2.0

Output Format : 16-bit offset binary, 250Ksps

### Contact information:

Information : [info@binaryacoustictech.com](mailto:info@binaryacoustictech.com)  
Sales: [sales@binaryacoustictech.com](mailto:sales@binaryacoustictech.com)



### Features:

- Wide frequency range
- Omni directional element
- Hemispherical coverage