

# Binary Acoustic Technology

Digital Acoustic Processing

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

## AR125 Ultrasonic Receiver

### Product description:

The AR125 is a professional quality ultrasonic receiver that is designed for ultrasonic recording and acoustic analysis. It employs a 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 is specifically designed for applications such as bat recording and vocalization analysis where directivity 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. It is sensitive enough to detect the faintest sound a human can hear (0 dB SPL) and it is capable of detecting bats at a distances up to several hundred feet.



### Specifications:

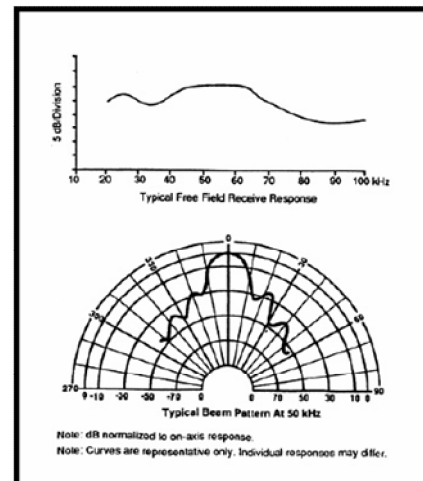
Frequency Range : 1 to 125 KHz

Dynamic Range : > 90 dB (Full BW)  
> 96 dB (Audio BW)

Range Limits (SPL +/- 3 dB) :  
Max : 90 dB  
Min : 0 dB (Full) / -6 dB (audio)

Interface: USB 2.0

Output Format : 16-bit offset binary



### Contact information:

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

Frequency Response  
and  
Beam Pattern