



Binary Acoustic Technology

Digital Acoustic Processing

www.binaryacoustictech.com

AcroBAT Adaptive Receiver

Product description:

The AcroBAT Adaptive Receiver is a component of Binary Acoustic Technology's innovative AcroBAT_{tm} ultrasonic monitoring and recording system. It employs seven omni-directional elements configured in a hemispherical, Angle-of-Arrival (AOA) tracking configuration. It supports a wide ultrasonic frequency range and is capable of tracking low frequency bats, in the audible range, as well as high frequency bats, up to a maximum frequency of 125 KHz.

The AcroBAT Adaptive Receiver was developed to support and enhance bat monitoring and classification research. It provides the capability to track and isolate individual bats. As well, it is able to adaptively enhance bat calls, solving many acoustic issues that happen during field work. Typical applications include bat acoustic mist-netting, transect monitoring, bat flight rooms, mice and rodent studies, and moth and insect research.



Specifications:

Sensor:	Seven (7) element AOA array
Coverage:	Hemispherical
Frequency Range :	1 to 125 KHz
Dynamic Range :	> 90 dB
Range Limits (SPL +/- 3 dB @ 1 meter) :	Max : 110 dB Min : 12 dB
Interface:	USB 2.0

Contact information:

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Features:

- Angle-Of-Arrival Tracking Array
- Hemispherical Coverage
- Supports Low and High Frequency bat research
- Protective Aluminum Enclosure
- Weather Tolerant
- Simple USB 2.0 Interface

Capabilities:

- Bat Tracking
- Call Sequence Separation
- Call Enhancement

Applications:

- Acoustic Mist-Netting
- Transect Monitoring
- Bat, Rodent, and Insect Research