

# Binary Acoustic Technology

Digital Acoustic Processing

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

## AT100 Ultrasonic Transmitter

### Product description:

The AT100 is a small, portable, ultrasonic transmitter that is designed for field research. It employs a wide bandwidth ultrasonic element along with an efficient wideband amplifier to produce an impressive 100dB SPL transmit capability in a small, light-weight package.

The AT100 is designed to be operated by a Windows based lap-top computer. It connects a lap-top through a high speed USB 2.0 interface. The bundled playback software allows the user to select between prerecorded files and play them back through the AT100. The software supports the industry standard WAV file format and works with files generated by SPECT'R as well as time expanded detectors recorded by SonoBat ([www.sonobat.com](http://www.sonobat.com)) or BatSound ([www.batsound.com](http://www.batsound.com)). Optionally, a Flash memory capability can be incorporated to allow the device to operate as a stand-alone transmitter.

The AT100 requires less than 2.5 Watts of operating power. It can either be powered by the lap-top over the USB cable or it can be powered from an external 9 to 12V source.

### Specifications:

Frequency Range : 10 to 120 KHz (see graph)

Maximum Transmit Power : 100 dB SPL @ 50KHz

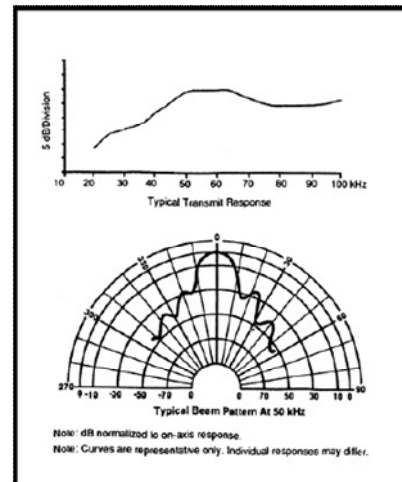
Dynamic Range : > 70 dB

Interface: USB 2.0 (High-Speed)

Power Requirements : < 2.5 Watts

### Contact information:

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Frequency Response  
and  
Beam Pattern