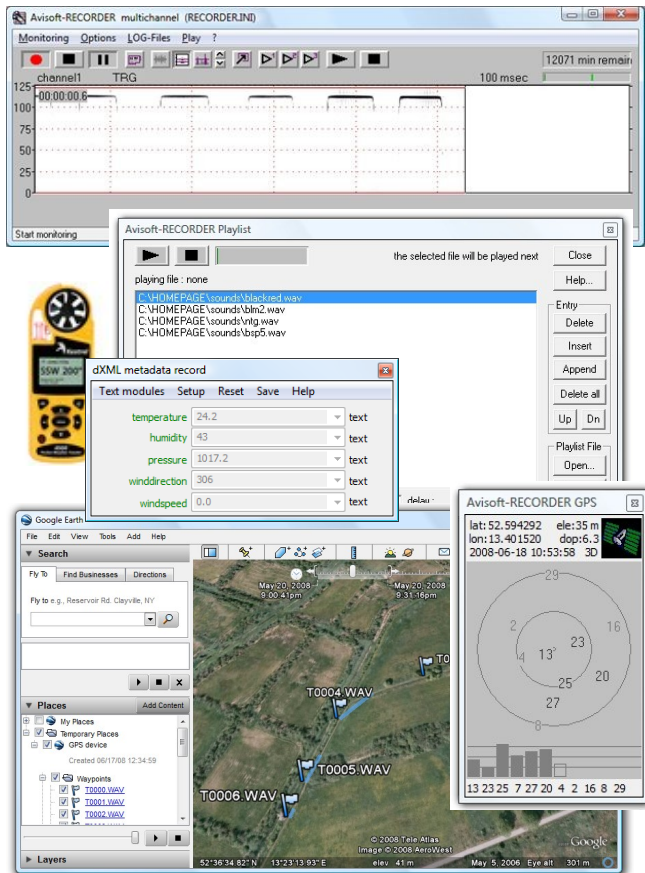


Avisoft-RECORDER

Avisoft-RECORDER is a versatile PC-based multichannel triggering harrdisk recording software that has been adopted to the special needs of bioacoustic research. Possible applications are:

- Long-term monitoring and recording both in the laboratory and in the field.
- Pre-trigger recording of sporadic vocalizations.
- Multichannel real-time spectrographic display.
- High-speed harrdisk-recording with sampling rates of up to 1 MHz with various data acquisition boards and soundcards.
- Playback with both standard soundcards and high-speed output streaming devices (with playlist support).
- Real-time call parameter measurement and classification tools.
- Acquiring GPS location data from NMEA 0183 compatible GPS receiver units
- Weather data logging from Kestrel 4xxx Weather Tracker, Davis Instruments Vantage Pro and many other weather stations.



Avisoft-SASLab Pro

Avisoft-SASLab Pro is a powerful Windows application for investigating animal acoustic communication. It provides a broad range of processing and analysis tools that can greatly increase the efficiency in extensive sound analysis projects.

Avisoft-SASLab Pro is compatible:

- Supports all common sound cards, compact flash and harrdisk audio recorders
- Imports uncompressed soundfiles that have been recorded with third-party sound recording/processing tools (.WAV .AIF, .SND, .AU, various binary formats and .txt)
- Exports images and measurement results either as files (.wmf .bmp, .tif, .txt, .htm, .xml, .sql), via the clipboard or through DDE directly into Excel

Avisoft-SASLab Pro is comprehensive:

- Flexible cursors for measuring spectrogram structures
- Versatile automated sound parameter measurement and classification facilities (event detection, analysis, classification and statistics)
- Automated classification of syllables by means of spectrogram cross-correlation with templates
- Labeling option for single point and time section labels
- Synthesizer for generating artificial songs and calls by mouse drawing of the parameter evolution (fundamental frequency, envelope, harmonics, frequency and amplitude modulation).
- A dedicated pulse train analysis tool supports the investigation of temporal patterns of both simple pulse trains or series of sound bursts (e.g. song elements)
- Georeferencing .wav files that have been recorded with a digital field recorder by using GPS track log data
- User-defined XML metadatabase with integrated query facilities.
- and much more ...

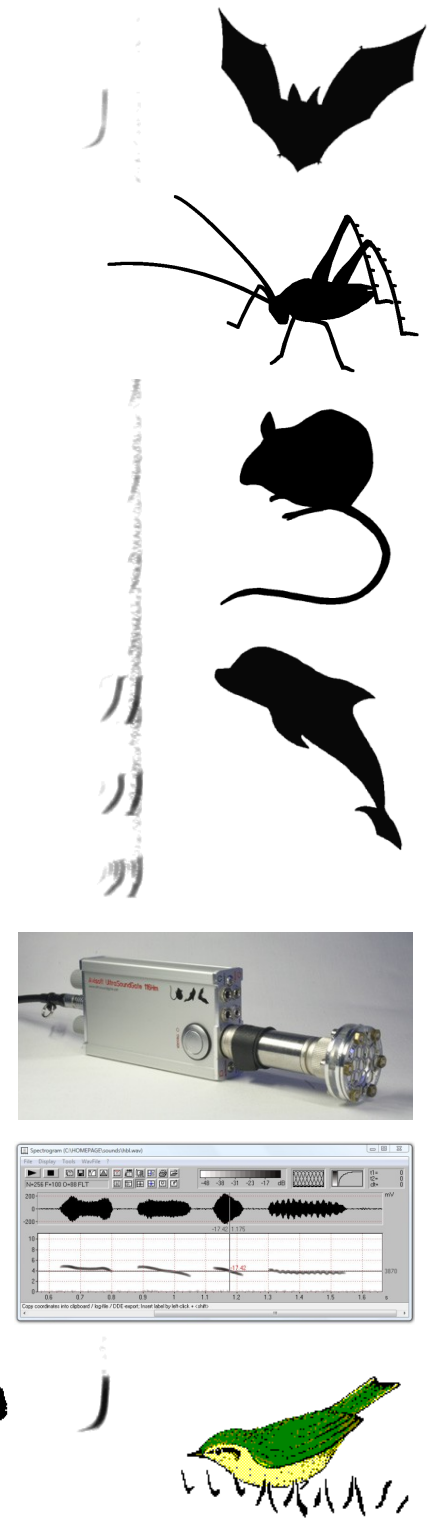
Visit www.avisoft.com for further information.

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Avisoft Bioacoustics
Hardware and Software for Investigating Animal Acoustic Communication

Avisoft Bioacoustics UltraSoundGate

PC-based ultrasound recording and playback systems for applications both in the lab and in the field

Its modular concept allows to optimize the system for a wide range of different applications

The rugged and compact unit is made of high-quality components. It's aluminium housing provides maximum reliability in the field.

Direct sampling at up to 1 MHz at 16 bit resolution enables superior sound quality.

Rugged USB interface for streaming the digitized ultrasounds into a laptop PC (bus-powered operation)

Acoustic monitor (bat detector functionality)

The trigger button allows to control the Avisoft-RECORDER software remotely

TTL-compatible digital input

A rugged input connector allows to attach various microphones or other signal sources

The electret condenser microphone is very compact and rugged (better reliability in humid environments).

The optional Polaroid transducer capsule provides maximum sensitivity around 50kHz.

Charge amplifier with adjustable high-pass filter for connecting passive hydrophones

Power module and low-noise preamplifier for directly connecting 1/4" or 1/8" measurement microphones

Very sensitive externally polarized solid-dielectric condenser microphone with a flat frequency response between 15 and 200 kHz.

UltraSoundGate 116Hm for hand-held use in the field

Gain control knob with a wide 40dB control range

Small-sized UMPC's, such as the Viliv S5, can be mounted directly on the USG 116Hm, which creates a compact and light-weight bat recorder with integrated GPS and weather data logging functionality.

A peak level and overload indicator helps adjusting the gain appropriately.

Electrostatic speaker

Dynamic speaker

UltraSoundGate Player 116

UltraSoundGate 116H for lab use

USG 1216H (12 channels)

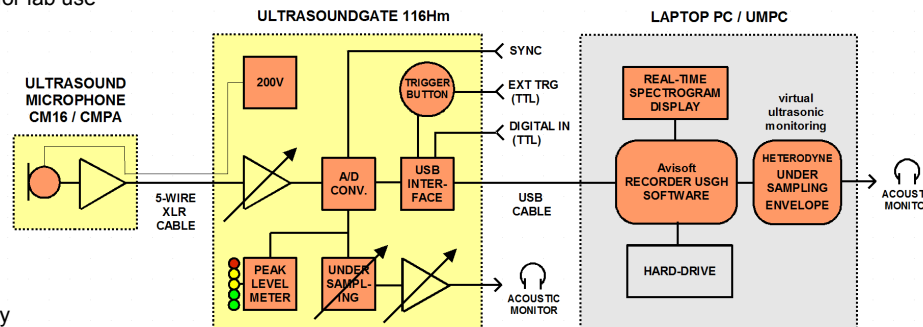
USG 416H (4 channels)



System requirements

IBM-compatible PC, 600 MHz or more with at least one USB 2.0 port, running Windows XP, Vista, 7 or 8

The UltraSoundGate system has been developed by Avisoft Bioacoustics having more than 22 years of experience in designing animal sound analysis software, digital signal processing systems and ultrasound recording / detecting equipment.



Powerful Recording Software

The accompanying Avisoft-RECORDER USGH software saves the incoming sounds onto the PC harddrive and provides a real-time spectrogram display, numerous triggering options including sound-activated and timer controlled modes. A GPS data acquisition option supports the geographic documentation of field surveys.

Recording ultrasound has never been easier!