Avisoft-RECORDER

Avisoft-RECORDER is a versatile PC-based multichannel triggering harddisk 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 harddisk-recording with sampling rates of up to 1 MHz with various data acquisition boards and soundcards.
- Payback 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 or Windows location API compatible GPS receiver devices.
- 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 harddisk 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 UltraSoundGate

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

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

The rugged and compact unit is made of high-quality components. Its 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)

Sampling with a wide 40 dB gain range.

Electrostatic speaker

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

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.

UltraSoundGate 116H for lab use

UltraSoundGate Player 116

Dynamic speaker

Small-sized tablet PCs can be mounted directly on the USG 116Hm, which creates a compact and light-weight bat recorder with integrated GPS logging functionality.

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)

Gain control knob with a wide 40 dB gain range.

UltraSoundGate 116Hm for hand-held use in the field.

UltraSoundGate 116H for lab use

UltraSoundGate Player 116

Dynamic speaker

Small-sized tablet PCs can be mounted directly on the USG 116Hm, which creates a compact and light-weight bat recorder with integrated GPS logging functionality.

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

IBM-compatible PC, 900 MHz or more with at least one USB 2.0 port, running Windows Vista, 7, 8 or 10

The UltraSoundGate system has been developed by Avisoft Bioacoustics having more than 25 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!