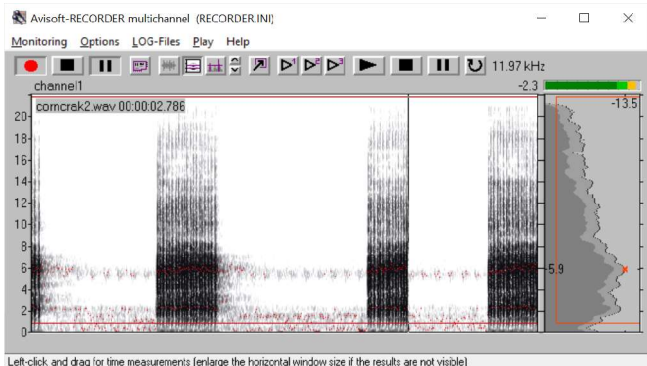
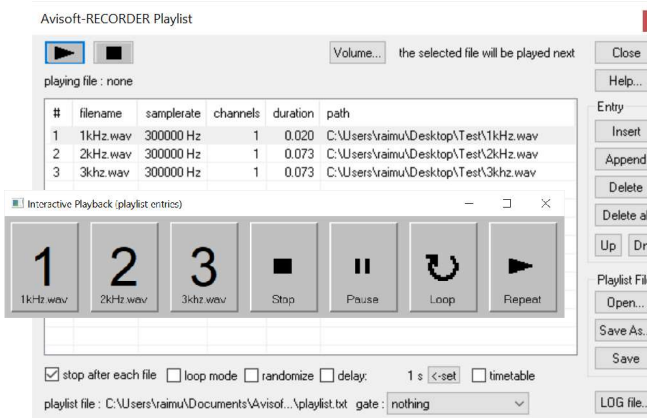


# Avisoft-RECORDER

Avisoft-RECORDER is a Windows application for direct-to-disk recording and playback that has been adopted to the special needs of bioacoustic research.

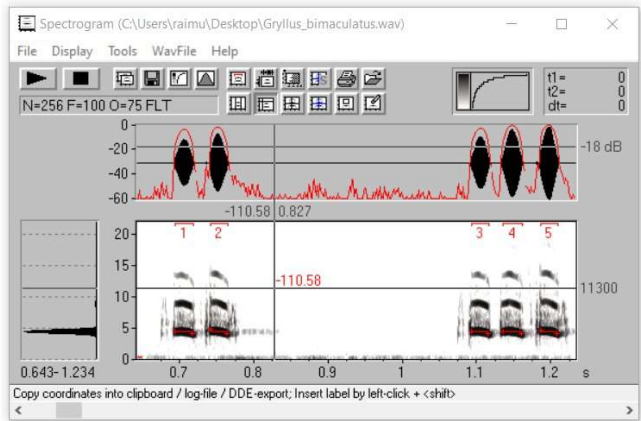


- Long-term monitoring and recording both in the laboratory and in the field.
- Pre-trigger recording of sporadic vocalizations.
- Multichannel real-time spectrographic display.
- High-speed direct-to-disk recording with sampling rates of up to 1 MHz with various data acquisition boards and audio interfaces.
- Playback with both standard audio interfaces and high-speed output streaming devices with versatile playlist support.
- Real-time call parameter measurement and classification tools.
- Real-time power spectrum for measuring sound levels
- Calibration tool for conducting sound level measurements and calibrating trigger levels.
- The software be remote-controlled from other applications via Dynamic Data Exchange (DDE).



# Avisoft-SASLab Pro

Avisoft-SASLab Pro is a 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 comprehensive:

- Flexible cursors for measuring spectrogram structures
- Versatile automated sound parameter measurement tools
- Automated classification of syllables by means of spectrogram cross-correlation with templates
- Labeling tool for single point and time section labels
- Synthesizer for generating artificial or modifying natural songs and calls by mouse drawing of the parameter evolution (fundamental frequency, envelope, harmonics, frequency and amplitude modulation).
- Pulse train analysis tool for investigating temporal patterns of both simple pulse trains or series of sound bursts (e.g. song elements)
- and much more ...

Visit [www.avisoft.com](http://www.avisoft.com) for further information.

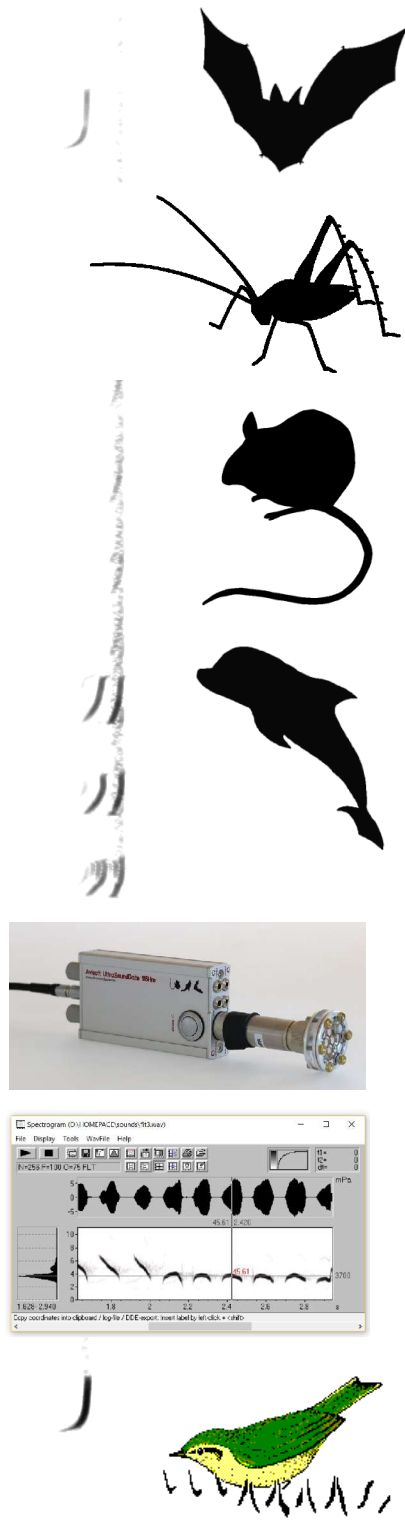
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January 2024



# 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

The modular concept of the UltraSoundGate product family  
allows to adopt the system for a wide range of  
different applications



UltraSoundGate 116Hb / 116H



UltraSoundGate 116Hm



UltraSoundGate 116Hme



Very sensitive externally polarized solid-dielectric  
condenser microphone CM16/CMPA  
with a flat frequency response  
between 2 and 200 kHz.



USG 416H (4 channels)



USG 1216H (12 channels)



UltraSoundGate 116Un



UltraSoundGate 116Hn



Electrostatic speaker ESS16

Dynamic speaker Vifa



UltraSoundGate Player 116H



UltraSoundGate Player 216H (2 channel playback)



UltraSoundGate Player 416H (4 channel playback)

## System requirements

IBM-compatible PC with at least one USB port,  
running Windows 10 or 11

The UltraSoundGate system has been designed by  
Avisoft Bioacoustics having more than 30 years of experience in  
designing animal sound analysis software, digital signal processing  
systems, ultrasound recording and playback equipment.

## Powerful Recording and Playback Software is included

The accompanying Avisoft-RECORDER USGH software saves the incoming sounds  
onto the PC, provides a real-time spectrogram display, various triggering options  
including sound-activated and timer controlled modes.

A playlist functionality supports conducting complex playback experiments.

**Recording and playing back ultrasound has never been easier!**