

# MOLES

## (Miniature Outdoor Logger for Environmental Sound)

MOLES is a new development based on the powerful SVAN 971 Class 1 sound level meter, which allows medium to long-term unattended sound monitoring in all conditions.

### Key points:-

- Long battery life – up to 4 weeks with standard battery
- Weatherproof case (IP65) and microphone
- 4GB  $\mu$ SD storage (can be upgraded to 32GB)
- Summary (periodic) and logger (time history) data
- Hot swappable batteries
- Charger included
- External battery option
- Class 1 to BS EN 61672-1
- Linearity range down to 25dB(A)
- Extension cable included
- Easily portable (less than 7kg)

### Options:-

- 1/1 and 1/3 octave real-time analysis to BS EN 61260
- Audio recording (incl. 2 in 10 recording for windfarms)
- Additional batteries
- External battery



MOLES is an outdoor noise monitoring system which is easily portable yet low-cost. The IP65-rated case contains a lead-acid battery which runs the system continuously for over 4 weeks (dependent on ambient temperature and analysis selected). The internal battery can be hot-swapped and external batteries may be connected to extend the life still further.

The case is fitted with waterproof LEMO connectors and the external microphone comes with a 4.5m extension cable although longer cables can be supplied on request.

The supplied SA271U outdoor microphone protection system incorporates a desiccator, rain protection and birdspikes, along with a large 130mm windshield, for excellent reduction of wind turbulence noise. Auto-calibration can also be enabled, allowing instant access to the calibration menu when a sound level calibrator is applied to the microphone.

The characteristics of the microphone system are fully documented, so the frequency response corrections for 90° (environmental) or 0° (aircraft) incidence can be dialled into the instrument, maintaining the Class 1 accuracy. If a more visually discreet windshield is required then our MW403 outdoor windshield with birdspikes is also available (option).

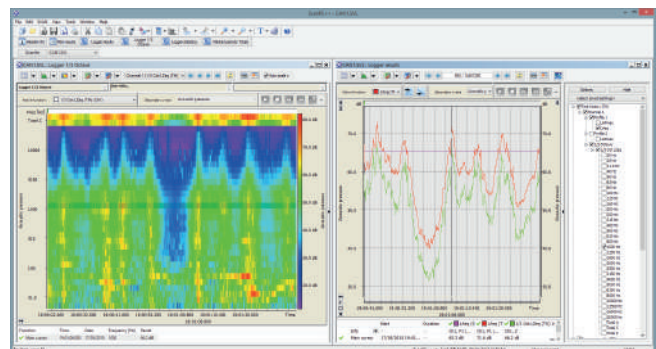
MOLES is very simple to operate and the SVAN971 can either be set up from your PC or using the instrument's keypad. The internal 4GB µSD card gives almost limitless storage of results, and can be downloaded via high-speed USB or by removing the card and reading directly on your PC.

Summary (periodic) results can be stored and synchronised to whole measurement intervals. Results include Leq, Ln, Lmax, Lmin, etc and three measurement profiles can be set with different frequency weightings and time constants. In addition, logger (time history) data may be stored in parallel, down to 100ms intervals, so complete time histories of sound levels can be evaluated later on your PC.

The SVAN 971 can be upgraded by the user at any time by unlocking additional capabilities such as the SV971\_3 option which adds 1/1 and 1/3 octave real-time analysis from 20Hz to 20kHz (useful for evaluating the behaviour of tonal sources, and amplitude modulation in wind turbines) or the SV 971\_15 Audio Events Recording option to add triggered audio recording capability up to 12kHz sample rate. Additionally, time-based audio recording is possible, such as the 2 minutes recording every 10 minutes suggested by the IOA Good Practice Guide on Wind Turbine Noise.



EXAMPLE SVAN971 SCREENSHOTS



SVANPC++ SOFTWARE

For more details on the SVAN 971 capabilities, see the separate data sheet.